NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

RECEIVED
EPA REGION III
FEB 25 2013
WATER PROTECTION DIVISION
(3WP00)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PERMIT NUMBER	DISCHARGE NUMBER
PA0026549	001-A

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2013	TO	01/31/2013

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	63	******		0	DAILY	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.0	******	******		0	7/DAILY	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.0	******	7.6		0	DAILY	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1685	2842		******	12	16		0	DAILY	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	1507	******		******	11.7	******		0	DAILY	COMP24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	15.32	29.45		******	******	******	******	0	CONTIN UOUS	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.02	******		0	2/SHIFT	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	(610)655-6258		2/19/2013
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NONE

	January 2013				City of Reading Wastewater Treatment Plant																	Laboratory Process Control Data									
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent						
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jan	180	236	7.1	28.6	440	388	7.1	23.1	384	355	24.3	126	45	8.1	510	400	32.4	6.6	13.2	16.1	13.91	220	66	25.8	0.3	6.4	36	33	21.0		5.7	6.9	30	34
2-Jan	212	234	7.2	25.8	430	314	6.7	21.5	382	296	22.5	-60	-30	17.7	322	266	40.2	6.6	13.4	15.0	14.25	205	53	30.0	0.8	6.3	39	27	27.3	280	4.9	6.7	32	15
3-Jan	212	192	7.4	28.3	430	194	6.9	21.5	382	194	23.0	28	176	18.9	410	370	41.9	7.2	18.1	14.6	14.27	265	65	33.1	8.7	6.5	46	31	27.5		3.5	7.1	29	23
4-Jan	140	106	7.3	27.2	345	630	6.9	20.5	301	518	21.9	29	-242	5.7	330	276	27.6	6.7	15.1	12.7	13.69	222	56	27.6	0.2	6.4	29	14	23.7	340	4.6	6.8	32	15
5-Jan	140	104	7.1	28.0	258	216	6.8	21.2	232	192	22.7	36	90	7.7	268	282	30.4	6.8	18.4	15.7	13.68	145	56	25.4	1.4	6.5	26	51	21.1		4.3	6.8	29	8
6-Jan	220	252	7.4	27.6	560	460	7.1	20.9	487	415	22.3	-57	-1	1.4	430	414	23.7	6.8	18.7	15.2	14.52	205	64	24.3	0.6	6.6	39	41	21.6		4.4	6.9	32	21
7-Jan	215	248	8.2	27.9	460	334	7.0	20.6	407	315	22.2	-7	29	13.7	400	344	35.9	6.7	19.1	15.1	13.86	252	106	27.6	0.2	6.6	28	27	21.0	300	5.5	7.1	28	19
8-Jan	220	234	7.5	26.9	570	370	6.9	20.0	496	341	21.5	-86	33	10.1	410	374	31.6	7.1	16.8	14.9	13.69	255	73	28.5	0.4	6.5	52	40	24.2		4.9	7.0	25	16
9-Jan	225	246	8.5	25.7	380	198	6.7	20.4	346	208	21.6	74	234	15.5	420	442	37.1	7.0	16.1	14.9	14.19	210	55	31.2	0.4	6.3	38	29	26.0	300	5.4	6.8	32	12
10-Jan	225	198	7.4	25.0	510	468	7.0	20.5	454	415	21.4	36	-9	19.7	490	406	41.1	7.0	17.3	15.7	13.48	ns	ns	ns	2.8	6.3	40	38	25.5		3.7	7.1	30	16
11-Jan	220	230	7.3	28.6	700	638	6.8	21.9	596	549	23.4	-76	-59	5.6	520	490	29.0	6.8	12.9	18.0	14.38	265	93	27.9	0.3	6.5	48	46	25.6	300	4.2	7.2	33	20
12-Jan	248	256	7.4	30.2	600	448	7.0	23.3	521	405	24.8	99	195	7.6	620	600	32.4	7.1	12.9	16.3	13.14	228	114	27.1	0.2	6.6	53	47	24.5		4.9	7.3	40	30
13-Jan	280	266	6.5	26.7	510	470	6.4	20.8	461	427	22.1	9	23	0.6	470	450	22.7	6.7	20.3	15.7	14.73	245	64	25.5	0.4	6.3	55	43	20.8		6.2	6.5	35	15
14-Jan	208	222	7.6	25.9	520	472	7.2	19.5	453	418	20.9	-191	-270	8.0	262	148	28.9	6.8	19.7	15.8	14.55	222	78	25.8	0.2	6.5	36	18	23..6	260	3.4	6.9	27	13
15-Jan	215	248	7.5	23.6	360	372	6.9	17.3	331	347	18.6	59	61	11.9	390	408	30.5	6.9	17.2	15.5	16.75	222	68	24.3	9.1	6.6	40	27	22.0		1.3	7.1	32	23
16-Jan	150	246	7.5	22.0	360	368	7.2	16.7	312	340	17.9	-97	-168	18.5	215	172	36.4	6.9	10.0	14.5	17.86	160	65	28.0	12.6	6.6	27	17	24.1	260	4.7	7.1	27	23
17-Jan	195	250	7.4	24.7	650	244	7.3	18.6	552	245	19.9	-240	65	20.2	312	310	40.1	7.4	11.7	15.2	15.15	218	70	26.6	0.5	6.7	18	14	21.5		4.9	7.0	17	11
18-Jan	230	224	7.6	25.9	300	164	7.1	19.1	285	177	20.6	65	167	5.1	350	344	25.7	6.8	18.8	15.1	15.02	275	96	23.7	8.4	6.5	44	34	19.2	280	3.8	7.2	28	20
19-Jan	290	204	7.4	21.1	420	398	6.9	18.6	391	355	19.2	-113	-69	3.5	278	286	22.7	6.9	12.4	14.8	14.61	205	67	23.8	0.2	6.4	62	49	18.9		4.4	6.8	26	20
20-Jan	100	68	7.6	22.7	318	102	7.0	17.5	270	94	18.7	-20	94	10.7	250	188	29.4	6.9	18.0	14.6	15.31	235	62	21.3	2.0	6.7	28	18	19.8		5.3	7.1	27	10
21-Jan	285	214	7.1	25.6	490	378	6.8	20.3	445	342	21.5	-85	-30	8.1	360	312	29.6	7.0	15.2	15.1	14.82	288	121	27.4	8.7	6.5	66	74	26.6		3.2	6.9	31	32
22-Jan	205	226	7.4	21.5	436	350	7.0	20.1	387	324	20.4	-97	-182	3.8	290	142	24.2	7.3	15.6	14.6	14.55	222	67	21.6	0.5	6.6	45	23	15.5		5.9	7.3	39	20
23-Jan	225	250	7.3	21.4	436	350	ns	20.1	391	329	20.4	-66	-13	7.4	325	316	27.8	7.4	21.4	15.2	14.03	212	62	26.5	0.2	6.6	50	25	20.5	280	5.0	7.2	ns	ns
24-Jan	242	304	7.7	26.2	380	394	6.7	22.1	349	374	23.0	6	6	9.0	355	380	32.0	6.9	21.2	16.8	13.98	238	84	28.1	3.4	6.5	57	36	20.2		1.1	7.2	29	27
25-Jan	270	332	7.3	24.7	420	232	7.0	21.5	387	254	22.2	-37	70	5.6	350	324	27.8	7.0	19.3	14.1	13.24	212	79	25.1	1.0	6.7	53	49	23.8	280	6.7	7.1	27	15
26-Jan	235	278	7.7	28.9	370	364	6.3	23.3	340	345	24.5	-28	47	5.6	312	392	30.1	6.7	16.2	13.5	13.67	232	106	26.2	0.3	6.2	50	53	17.4		5.5	6.8	26	15
27-Jan	225	240	7.3	25.8	420	514	7.0	21.0	377	453	22.1	-77	-81	4.1	300	372	26.2	6.6	22.7	13.9	14.36	195	91	24.3	0.5	6.5	42	37	21.8	260	4.3	7.1	26	24
28-Jan	232	250	7.4	31.0	580	418	7.0	24.4	505	382	25.8	-227	-192	13.0	278	190	38.8	7.1	19.6	14.1	14.34	218	68	33.7	0.2	6.3	46	25	32.7		7.1	7.1	24	12
29-Jan	185	200	8.0	26.3	380	250	6.9	21.8	338	239	22.8	-28	103	23.6	310	342	46.4	7.1	22.2	15.3	13.61	212	127	23.4	0.5	6.7	54	57	24.0		5.1	6.9	34	17
30-Jan	272	190	7.2	20.9	268	226	7.0	17.1	269	218	17.9	13	162	12.0	282	380	29.9	6.9	13.1	14.9	29.45	165	64	26.6	4.1	6.4	46	22	33.5	320	4.4	6.8	32	16
31-Jan	110	118	7.0	13.2	238	138	7.2	10.4	206	133	11.1	-1	33	18.2	205	166	29.3	7.0	14.4	11.9	24.33	120	76	15.8	11.3	6.7	34	43	15.6		0.9	6.9	24	20
1-Feb																																		
2-Feb																																		
					Average used for no sample										205	124	21.8																	
TOTAL	6611	6866	230.3	787.9	13539	10862	207.7	625.6	12036	10000	660.9	-1012	286	320.9	11024	10286	981.8	###	###	464.8	471.42	6568	2316	786.2	80.3	###	1327	1088	686.9	3460.0	139.0	216.4	883	562
Week 1	188	196	7.4	27.6	418	362	6.9	21.3	368	326	22.7	14	10	10.5	381	336	33.2	6.8	16.6	14.9	14.03	216	67	27.7	1.7	6.4	35	32	23.3	306.7	4.7	6.9	30	19
Week 2	232	236	7.5	27.0	541	438	6.8	20.9	475	395	22.2	-19	21	9.6	456	416	31.8	6.9	16.6	15.9	14.02	238	80	27.7	0.7	6.4	46	37	24.4	286.7	4.7	7.0	32	17
Week 3	209	208	7.4	23.7	414	289	7.0	18.3	369	272	19.5	-62	17	11.2	308	289	30.6	7.0	14.8	15.0	15.65	229	78	25.0	5.9	6.6	41	33	21.7	270.0	3.9	7.0	27	20
Week 4	233	269	7.4	25.6	435	375	6.8	21.8	391	351	22.6	-75	-49	6.9	316	302	29.6	7.0	19.4	14.6	14.02	218	80	26.5	0.9	6.5	49	35	21.7	273.3	5.1	7.1	29	19
Week 5																																		
Monthly	213	221	7.4	25.4	437	350	6.9	20.2	388	323	21.3	-33	9	10.4	356	332	31.7	6.9	16.8	15.0	15.21	219	77	26.2	2.6	6.5	43	35	22.9	288.3	4.5	7.0	29	19
Min =	100	68	6.5	13	238	102	6.3	10	206	94	11.1	-240	-270	0.6	205	142	22.7	6.6	10.0	11.9	13.14	120	53	15.8	0.2	6.2	18	14	15.5	260.0	0.9	6.5	17	8
Max =	290	332	8.5	31	700	638	7.3	24	596	549	25.8	126	234	23.6	620	600	46.4	7.4	22.7	18.0	29.45	288	127	33.7	12.6	6.7	66	74	33.5	340.0	7.1	7.3	40	34
									%Removal						%Removal																			
									93.89	96.20	45.14				93.33	96.31	63.07																	

Print Date: 2/19/2013

Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	chloride	DO	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	DO	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
15.3		130	7.8	7.0	25	18	20	6.5		8.1	1.700	7.2	6.7		ns	
21.6	240	125	8.0	6.9	43	20	17	11.3	180			7.7	6.5		112.0	1510.0
21.8		135	11.3	7.2	46	20	19	15.4				10.6	6.6	88.0	76.0	1265.0
18.9	320	130	8.8	7.0	44	20	16	12.5	240			7.7	6.6		74.0	1120.0
15.2		115	8.2	7.1	36	18	3	8.6				7.9	7.1		77.0	825.0
17.2		120	8.0	7.1	33	16	16	9.2				7.9	7.1	56.0	68.0	825.0
15.4	220	135	7.3	7.0	28	14	19	7.1	240			7.6	7.1		79.0	965.0
19.3		140	8.2	7.4	49	22	16	11.3		8.7	1.385	7.6	6.9		77.0	895.0
18.2	260	140	8.0	7.2	42	19	18	11.4	200			7.8	6.9		74.0	1195.0
20.2		135	8.5	7.2	49	18	16	12.0				7.9	6.8	90.0	90.0	960.0
21.2	240	145	7.3	7.3	45	18	15	14.0	180			7.7	7.1		104.0	1665.0
18.3		145	6.3	7.3	38	17	21	10.5				7.2	7.2		100.0	1245.0
16.4		120	7.5	7.2	38	20	14	8.7				8.2	6.6	84.0	82.0	1165.0
18.3	240	120	7.3	7.1	40	21	18	9.5	180	13.4	1.220	7.0	6.9		113.0	920.0
17.5		145	7.2	7.3	52	21	24	10.4				7.2	7.1		111.0	690.0
21.6	260	145	8.0	7.3	49	19	22	14.3	200			7.3	7.1		104.0	985.0
17.6		155	7.9	7.3	36	12	15	12.1				7.3	7.0	128.0	92.0	860.0
18.6	240	145	8.8	7.3	27	8	20	11.7	200			7.7	6.7		120.0	1665.0
16.4		130	8.5	7.0	28	8	16	8.7				8.1	7.1		119.0	1680.0
15.2		110	7.7	7.4	32	16	18	8.6				7.4	7.1		104.0	1425.0
19.7		105	8.3	7.4	20	9	20	12.8		6.0	1.045	8.0	6.8	67.0	101.0	1305.0
12.1		110	8.5	7.5	45	22	23	11.0				7.6	7.3		108.0	1540.0
ns	240	ns	7.8	7.5	55	19	18	12.9	220			8.1	7.2		109.0	1145.0
18.4		140	7.7	7.5	45	19	20	10.9				8.1	7.3	76.0	92.0	920.0
21.4	300	140	7.8	7.5	37	17	17	14.0	240			8.5	7.4		122.0	910.0
16.4		155	8.8	7.4	29	8	17	14.8				8.5	6.8		94.0	820.0
20.2	240	140	9.3	7.3	30	8	17	14.3	220			8.5	6.7	72.0	84.0	800.0
27.9		175	8.4	7.0	38	16	16	21.6		4.3	0.845	8.3	7.0		111.0	448.0
24.0		205	8.6	7.2	48	18	15	16.1				9.4	7.1		127.0	570.0
24.4	280	115	6.9	7.3	21	25	35	20.5	220			7.5	6.9		140.0	1295.0
12.7		160	7.0	7.0	41	12	32	8.9				6.4	6.9	67.0	106.0	525.0
561.4	3080.0	4110.0	249.6	224.5	1189	518	573	371.5	2520.0	40.5	6.195	243.9	215.7	728.0	2970.0	32138.0
17.9	260.0	127.1	8.5	7.1	36	18	16	10.1	220.0	8.1	1.700	8.1	6.8	72.0	81.0	1085.0
18.8	246.7	135.0	7.6	7.2	43	19	17	11.1	186.7	11.1	1.303	7.6	6.9	87.0	91.4	1149.3
18.1	250.0	133.6	8.1	7.3	35	13	19	11.2	200.0	6.0	1.045	7.6	7.0	97.5	107.3	1230.0
19.4	260.0	143.3	8.3	7.4	40	16	18	14.2	226.7	4.3	0.845	8.2	7.1	74.0	102.9	940.4
18.7	256.7	137.0	8.1	7.2	38	17	18	12.0	210.0	8.1	1.239	7.9	7.0	80.9	99.0	1071.3
12.1	220.0	105.0	6.3	6.9	20	8	3	6.5	180.0	4.3	0.845	6.4	6.5	56.0	68.0	448.0
27.9	320.0	205.0	11.3	7.5	55	25	35	21.6	240.0	13.4	1.700	10.6	7.4	128.0	140.0	1680.0

Print Date: 2/19/2013

		January 2013																	
		Flow (MGD)											On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc.	% Secondary Recirc.	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
							15.08											
							14.58											
1-Jan	10.920	1.962	0.602	2.990		13.910	13.440	8.520	5.480	0.466	61.251	39.396						
2-Jan	11.080	1.865	0.655	3.170		14.250	13.880	8.400	2.820	0.922	58.947	19.789						
3-Jan	11.130	1.790	0.640	3.140		14.270	14.250	8.530	4.320	0.933	59.776	30.273	07:55	13:48				
4-Jan	10.760	1.743	0.610	2.930		13.690	13.850	8.400	3.910	0.320	61.359	28.561	08:36	13:28				
5-Jan	10.700	1.792	0.567	2.980		13.680	13.700	8.240	5.390	0.616	60.234	39.401						
6-Jan	11.410	1.991	0.680	3.110		14.520	14.640	8.330	5.530	0.368	57.369	38.085						
7-Jan	10.850	1.754	0.680	3.010		13.860	13.290	8.260	5.310	0.586	59.596	38.312						
8-Jan	10.810	1.672	0.720	2.880		13.690	14.430	8.610	5.450	0.917	62.893	39.810						
9-Jan	11.090	1.855	0.708	3.100		14.190	14.140	8.610	5.370	1.032	60.677	37.844						
10-Jan	10.820	1.747	0.680	2.660		13.480	14.080	8.630	5.720	0.718	64.021	42.433						
11-Jan	11.260	1.748	0.634	3.120		14.380	14.830	8.290	5.300	0.461	57.650	36.857						
12-Jan	10.200	1.633	0.532	2.940		13.140	13.990	8.560	5.350	0.608	65.145	40.715						
13-Jan	11.600	2.015	0.668	3.130		14.730	14.610	8.670	5.440	0.460	58.859	36.931						
14-Jan	11.430	1.749	0.629	3.120		14.550	15.100	8.740	5.440	0.480	60.069	37.388						
15-Jan	13.390	2.186	0.807	3.360		16.750	17.270	8.600	5.470	0.459	51.343	32.657						
16-Jan	13.750	2.206	0.723	4.110		17.860	19.070	8.730	5.180	1.183	48.880	29.003						
17-Jan	11.900	2.048	0.644	3.250		15.150	15.940	8.450	5.360	0.711	55.776	35.380						
18-Jan	11.710	1.861	0.588	3.310		15.020	14.970	8.400	6.360	0.404	55.925	42.344						
19-Jan	11.390	1.910	0.564	3.220		14.610	15.350	8.510	6.130	0.586	58.248	41.958						
20-Jan	11.910	1.917	0.657	3.400		15.310	14.770	8.380	6.340	0.629	54.735	41.411						
21-Jan	11.570	1.993	0.667	3.250		14.820	15.090	9.140	6.440	0.898	61.673	43.455						
22-Jan	11.480	1.838	0.732	3.070		14.550	14.050	8.980	6.550	0.539	61.718	45.017						
23-Jan	11.050	1.778	0.679	2.980		14.030	13.580	8.300	6.450	0.652	59.159	45.973						
24-Jan	10.810	1.801	0.652	3.170		13.980	13.870	8.260	6.620	0.683	59.084	47.353						
25-Jan	10.360	1.643	0.573	2.880		13.240	12.630	8.090	6.240	0.316	61.103	47.130						
26-Jan	10.620	1.809	0.592	3.050		13.670	13.540	8.590	6.430	0.578	62.838	47.037						
27-Jan	11.160	1.967	0.672	3.200		14.360	13.800	8.220	6.390	0.498	57.242	44.499						
28-Jan	11.230	1.779	0.735	3.110		14.340	14.930	8.460	6.260	0.753	58.996	43.654						
29-Jan	10.650	1.834	0.625	2.960		13.610	14.180	8.450	6.140	0.862	62.087	45.114						
30-Jan	22.910	4.525	1.034	6.540		29.450	29.450	6.060	1.950	0.409	20.577	6.621						
31-Jan	18.280	3.164	0.733	6.050		24.330	24.330	4.140	2.610	0.799	17.016	10.727						
1-Feb							19.290											
2-Feb							17.260											
	Influent flow metering used due to inconsistency over 25 MGD																	
Total	368.230	61.575	20.682	103.190	0.000	471.420	511.600	256.550	167.750	19.846	1754.246	1155.13						
Week 1	10.979	1.842	0.633	3.047	#DIV/0!	14.026	14.111	8.383	4.680	0.602	59.790	33.40						
Week 2	11.030	1.774	0.653	2.993	#DIV/0!	14.023	14.200	8.587	5.439	0.668	61.330	38.85						
Week 3	12.231	2.017	0.664	3.414	#DIV/0!	15.646	16.044	8.601	5.897	0.696	55.226	38.03						
Week 4	10.959	1.802	0.662	3.066	#DIV/0!	14.024	13.933	8.414	6.420	0.574	60.020	45.81						
Week 5							19.034											
Monthly	11.878	1.986	0.667	3.329	#DIV/0!	15.207	15.324	8.276	5.411	0.640	56.589	37.26						
Min =	10.200	1.633	0.532	2.660	0.000	13.140	12.630	4.140	1.950	0.316	17.016	6.62						
Max =	22.910	4.525	1.034	6.540	0.000	29.450	29.450	9.140	6.620	1.183	65.145	47.35						

Print Date: 2/19/2013

	January 2013			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jan	6.5		3720	7.2		4800	6.8		3700						
2-Jan										7.2		5120	7.1		5380
3-Jan	6.3	954	2420	7.2	440	4960	7.0	798	4640						
4-Jan										7.2	452	5520	7.2	364	5500
5-Jan															
6-Jan	7.0	156	5400	7.0	98	5020	7.1	254	5100						
7-Jan								396	5460	7.2	135	5340	7.2	62	5520
8-Jan	7.0		4960	7.0		4680	7.1		5260						
9-Jan										7.2		5400	7.1		5440
10-Jan	7.0	396	4880	7.0	384	5020	6.8	1009	4680						
11-Jan										7.1	451	5100	7.1	404	5540
12-Jan															
13-Jan	6.9	182	4160	7.0	164	4680	7.1	138	5300						
14-Jan										6.8	871	2400	7.1	493	5100
15-Jan	7.1	153	4760	7.1	109	4840	7.1	98	5120						
16-Jan										7.1	209	5100	7.1	129	5360
17-Jan	7.0		4960	7.0		4720	7.1		5160						
18-Jan										7.2		5100	7.1		5340
19-Jan															
20-Jan															
21-Jan															
22-Jan	7.0	356	4660	7.0	402	4760	7.1	316	4980						
23-Jan										7.1	342	5360	7.1	313	5220
24-Jan	7.0	733	4840	6.9	589	4700	7.1	202	5020						
25-Jan										7.1	211	5280	7.1	120	5280
26-Jan															
27-Jan	6.8	738	4500	6.9	178	4920	7.2	213	5240						
28-Jan										7.1	216	5200	7.1	153	5340
29-Jan	7.0		5180	7.0		4720	7.1		5400						
30-Jan										7.1		5400	7.1		5420
31-Jan	6.9	191	4280	7.0	211	4720	7.1	244	5280						
1-Feb															
2-Feb															
Total	89.6	3859	58720	91.3	2575	62540	91.6	3668	70340	85.2	2887	60320	85.4	2038	64440
Week 1	6.6	555	3847	7.2	269	4927	7.0	483	4725	7.2	294	5327	7.1	213	5467
Week 2	7.0	289	4667	7.0	274	4793	7.0	574	5080	7.0	661	4300	7.1	449	5360
Week 3	7.0	153	4860	7.0	109	4780	7.1	98	5140	7.1	209	5100	7.1	129	5350
Week 4	7.0	609	4667	6.9	390	4793	7.1	244	5080	7.1	256	5280	7.1	195	5280
Week 5															
Monthly	6.9	429	4517	7.0	286	4811	7.0	367	5024	7.1	361	5027	7.1	255	5370
Min =	6.3	153	2420	6.9	98	4680	6.8	98	3700	6.8	135	2400	7.1	62	5100
Max =	7.1	954	5400	7.2	589	5020	7.2	1009	5460	7.2	871	5520	7.2	493	5540

Print Date: 2/19/2013

Dissolved Oxygen -January 2013

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
1/1/2013	7.3	7.2	7.3	7.3	7.3	7.4	8.4		7.2
1/2/2013	7.5	7.3	7.5	7.4	7.4	7.4	8.4		7.3
1/3/2013	7.5	7.5	7.6	7.3	7.3	7.2	11.4		7.2
1/4/2013	7.3	7.4	7.1	7.2	7.1	7.3	8.3		7.1
1/5/2013	7.4	7.3	7.3	7.4	7.4	7.4	8.7		7.3
1/6/2013	7.5	7.5	7.4	7.2	7.1	7.2	8.6		7.1
1/7/2013	7.3	7.2	7.3	7.3	7.3	7.4	8.4		7.2
1/8/2013	7.6	7.6	8.1	8.3	8.2	8.2	8.2		7.6
1/9/2013	8.2	8.1	8.6	8.1	8.1	8.0	8.5		8.0
1/10/2013	8.2	8.1	8.1	8.2	8.2	8.0	8.7		8.0
1/11/2013	8.2	8.2	8.0	8.1	7.9	8.0	8.6		7.9
1/12/2013	7.9	7.8	7.7	7.6	7.7	7.7	8.1		7.6
1/13/2013	7.7	7.8	7.6	7.5	7.5	7.6	8.9		7.5
1/14/2013	7.7	7.6	7.6	7.5	7.5	7.4	7.9		7.4
1/15/2013	7.7	7.6	7.4	7.6	7.6	7.7	7.9		7.4
1/16/2013	7.6	7.5	7.2	7.4	7.7	7.9	8.0		7.2
1/17/2013	8.0	7.9	7.9	7.9	8.0	8.0	8.1		7.9
1/18/2013	8.0	8.1	7.9	8.1	8.3	8.3	8.3		7.9
1/19/2013	8.4	8.2	8.2	8.0	7.9	7.6	8.8		7.6
1/20/2013	7.6	7.5	7.9	7.6	7.7	7.8	8.1		7.5
1/21/2013	8.1	8.2	8.2	8.0	8.0	8.0	8.6		8.0
1/22/2013	7.9	8.1	8.1	8.3	8.4	8.6	8.5		7.9
1/23/2013	8.7	8.7	8.6	8.2	8.5	8.6	9.3		8.2
1/24/2013	8.6	8.6	8.5	8.4	8.4	8.4	9.2		8.4
1/25/2013	8.6	8.8	8.7	8.5	8.4	8.6	9.3		8.4
1/26/2013	8.6	8.8	8.7	8.8	8.7	8.7	9.4		8.6
1/27/2013	8.8	8.9	8.9	8.7	8.6	8.5	9.4		8.5
1/28/2013	8.7	8.6	8.6	8.2	8.2	8.0	9.1		8.0
1/29/2013	8.1	8.2	8.2	8.0	7.8	7.8	9.9		7.8
1/30/2013	7.8	7.6	7.7	7.4	7.3	7.0	7.9		7.0
1/31/2013	6.4	6.4	7.6	8.5	8.4	8.5	6.0		6.0
Min	6.40	6.40	7.10	7.20	7.10		6.0	Min	6.00
Max	8.80	8.90	8.90	8.80	8.70		11.4	Max	8.60
								Avg	7.64

	January 2013 Total Residual Chlorine						
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average
1-Jan	0.03	0.00	0.00	0.01	0.00	0.00	0.01
2-Jan	0.02	0.03	0.00	0.02	0.02	0.01	0.02
3-Jan	0.03	0.02	0.07	0.01	0.01	0.02	0.03
4-Jan	0.02	0.00	0.00	0.00	0.01	0.01	0.01
5-Jan	0.02	0.00	0.00	0.01	0.02	0.01	0.01
6-Jan	0.02	0.00	0.00	0.00	0.02	0.01	0.01
7-Jan	0.03	0.02	0.03	0.01	0.00	0.01	0.02
8-Jan	0.02	0.06	0.02	0.02	0.02	0.02	0.03
9-Jan	0.02	0.04	0.00	0.00	0.00	0.01	0.01
10-Jan	0.03	0.05	0.04	0.01	0.00	0.03	0.03
11-Jan	0.04	0.03	0.04	0.02	0.04	0.01	0.03
12-Jan	0.03	0.15	0.02	0.02	0.00	0.02	0.04
13-Jan	0.08	0.22	0.02	0.01	0.02	0.02	0.06
14-Jan	0.06	0.05	0.00	0.03	0.01	0.01	0.03
15-Jan	0.02	0.03	0.02	0.01	0.00	0.02	0.02
16-Jan	0.01	0.03	0.02	0.02	0.00	0.02	0.02
17-Jan	0.02	0.03	0.00	0.02	0.01	0.03	0.02
18-Jan	0.03	0.01	0.04	0.00	0.00	0.02	0.02
19-Jan	0.03	0.02	0.05	0.00	0.00	0.01	0.02
20-Jan	0.02	0.03	0.05	0.01	0.01	0.01	0.02
21-Jan	0.02	0.04	0.07	0.00	0.00	0.01	0.02
22-Jan	0.03	0.03	0.02	0.00	0.00	0.02	0.02
23-Jan	0.01	0.00	0.04	0.00	0.01	0.01	0.01
24-Jan	0.01	0.02	0.00	0.01	0.00	0.00	0.01
25-Jan	0.02	0.08	0.01	0.01	0.02	0.00	0.02
26-Jan	0.01	0.19	0.07	0.00	0.02	0.01	0.05
27-Jan	0.01	0.48	0.01	0.00	0.01	0.02	0.09
28-Jan	0.09	0.04	0.03	0.00	0.02	0.02	0.03
29-Jan	0.03	0.05	0.01	0.02	0.02	0.01	0.02
30-Jan	0.03	0.00	0.00	0.02	0.02	0.06	0.02
31-Jan	0.01	0.01	0.03	0.07	0.01	0.03	0.03
Average	0.03	0.06	0.02	0.01	0.01	0.02	0.02
Minimum	0.01	0.00	0.00	0.00	0.00	0.00	
Maximum	0.09	0.48	0.07	0.07	0.04	0.06	

CITY OF READING WASTEWATER TREATMENT PLANT

January 2013 Biosolids Report

Solids Processing:

	Total
Sludge Pumped from Primary Settling Tanks (gallons):	3,371,124
Secondary Sludge Pumped to Mix Tank (gallons):	5,701,000
Supernated from Secondary Digesters (gallons):	0

Gravity Belt Thickeners:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	6,541,998	3,765,420	238,535	10,545,953
Thickened Sludge (gallons):	1,195,104	636,457	64,899	1,896,460
Polymer (pounds):	788.55	330.44	22.53	1141.52
Solids (dry tons):	245.15	114.72	12.33	372.20
Polymer dosage (pounds/dry ton):	3.22	2.88	1.83	3.07
% Reduction:	81.73%	83.10%	72.79%	82.02%
GBT Solids in Filtrate (dry tons):	6.93	22.41	1.39	30.73
GBT 1 Hours of Operation:	185.00	132.00	10.00	327.00
GBT 2 Hours of Operation:	193.00	138.00	14.00	345.00
Total GBT Hours of Operation:	378.00	270.00	24.00	672.00
Dry tons/hour:	0.65	0.42	0.51	0.55

Belt Filter Presses:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	1,044,821	921,947	62,833	2,029,601
Polymer (pounds):	1081.44	968.79	75.10	2125.33
Solids (dry tons):	104.20	89.55	6.12	199.88
Polymer dosage (pounds/dry ton):	10.38	10.82	12.27	10.63
% Solids Recovery:	91.02%	94.54%	94.98%	93.51%
Solids in Filtrate (dry tons):	6.20	5.46	0.35	12.01
BFP 1 Hours of Operation:	0.00	0.00	0.00	0.00
BFP 2 Hours of Operation:	64.50	85.00	2.00	151.50
BFP 3 Hours of Operation:	192.00	167.50	14.00	373.50
BFP 4 Hours of Operation:	192.00	167.50	14.00	373.50
Total BFP Hours of Operation:	448.50	420.00	30.00	898.50
Dry tons/hour:	0.23	0.21	0.20	0.22

Total Solids in Filtrate (dry tons):	42.74
% Solids (Method 2540 G):	18.32%
Total Wet Tons Removed:	1092.47
Dry Tons Removed:	200.14
Hours of Operation:	382
Fritz Island Scum Disposed (tons):	0.00
Fritz Island Grit Disposed (tons):	0.00
6th & Canal Grit Disposed (tons):	23.75
Mix Tank Cleaning/Snail Shells Disposed (tons):	27.20
Sanitary Sewer Excavation Soil (tons):	0.00

Discharge Monitoring Report Supplemental Bio-Solids Report ***for the Month*** January 2013

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 18.32	X 0.01	= 0.00
0.00	X 18.32	X 0.01	= 0.00
0.00	X 18.32	X 0.01	= 0.00
1,092.47	X 18.32	X 0.01	= 200.14
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 200.14

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	200.14
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

_____ *Signature*

Waste Water Superintendent *Title*

610-655-6258 *Telephone*

_____ *Date*

January 2013 Biosolids Report

Date	Volatile Solids Reduction PST (VS%)	Sec Dig (VS%)	VSR (%)	% Solids Feed	% Solids Cake (L-3750-85)	% Solids Filtrate	% Solids Thickened	% Solids GBT Filtrate	Polymer (lbs)	BFP Feed (gal)	Solids (dry tons)	Polymer Dose lb/dry ton	Wet Tons	6th St.	Grit	Snail Shells	Scum	Supernated (gpd)	GBT Feed (gal)	Thickened (gal)	GBT Poly (lbs)	Date
Tue 1									0.00	0	0.00							0	0	0	0.00	Tue 1
Wed 2	86.78%	66.13%	70.26%	2.10%	17.38%	0.11%	5.47%	0.11%	97.63	95,585	8.37	11.66	54.49	8.59				0	372,026	93,801	60.08	Wed 2
Thu 3				2.01%	17.09%	0.18%	5.65%	0.18%	112.65	97,762	8.19	13.75	35.33					0	452,404	65,299	45.06	Thu 3
Fri 4				2.59%	16.20%	0.14%	5.05%	0.14%	105.14	96,366	10.41	10.10	53.22					0	464,547	64,301	37.55	Fri 4
Sat 5				2.53%	17.78%	0.11%	3.34%	0.11%	45.06	40,952	4.32	10.43	19.49					0	220,188	76,200	22.53	Sat 5
Sun 6				2.58%	18.19%	0.12%	4.79%	0.12%	37.55	28,532	3.07	12.23						0	235,237	58,400	30.04	Sun 6
Mon 7				2.74%	21.19%	0.10%	4.62%	0.10%	45.06	33,656	3.85	11.72	54.04					0	269,565	69,400	37.55	Mon 7
Tue 8				1.84%	16.78%	0.12%	5.51%	0.12%	97.63	92,360	7.09	13.78	53.62					0	438,609	74,500	60.08	Tue 8
Wed 9	83.33%	66.32%	60.61%	1.96%	17.70%	0.13%	4.01%	0.13%	112.65	104,316	8.53	13.21	55.15					0	505,226	66,199	52.57	Wed 9
Thu 10				3.69%	24.18%	0.15%	3.97%	0.15%	112.65	95,296	14.66	7.68	52.71					0	439,873	59,500	37.55	Thu 10
Fri 11				2.17%	16.65%	0.13%	6.46%	0.13%	97.63	90,222	8.16	11.96	35.31					0	436,040	64,701	45.06	Fri 11
Sat 12				2.36%	17.07%	0.19%	3.58%	0.19%	52.57	37,737	3.71	14.16	17.79					0	214,016	81,399	22.53	Sat 12
Sun 13				2.44%	17.36%	0.17%	5.18%	0.17%	15.02	20,682	2.10	7.14						0	262,232	59,301	22.53	Sun 13
Mon 14				2.65%	18.16%	0.15%	4.66%	0.15%	60.08	50,488	5.58	10.77	70.27					0	253,074	59,300	37.55	Mon 14
Tue 15				2.42%	19.09%	0.17%	4.87%	0.17%	60.08	55,068	5.56	10.81	33.75					0	263,664	57,200	22.53	Tue 15
Wed 16	85.81%	64.23%	70.31%	1.93%	16.18%	0.14%	4.93%	0.14%	142.69	130,518	10.50	13.58	34.17					0	438,643	94,699	67.59	Wed 16
Thu 17				2.31%	17.92%	0.14%	5.01%	0.14%	105.14	100,533	9.68	10.86	53.72					0	412,975	50,400	37.55	Thu 17
Fri 18				2.88%	23.45%	0.12%	5.29%	0.12%	90.12	85,433	10.26	8.78	52.26					0	396,470	57,401	52.57	Fri 18
Sat 19				2.78%	17.21%	0.14%	3.92%	0.14%	75.10	55,847	6.47	11.60	15.93					0	466,317	123,300	45.06	Sat 19
Sun 20				2.25%	17.17%	0.15%	4.82%	0.15%	0.00	0	0.00							0	0	0	0.00	Sun 20
Mon 21				2.30%	18.10%	0.14%	3.46%	0.14%	90.12	98,227	9.42	9.57	70.88					0	494,197	73,400	45.06	Mon 21
Tue 22				1.72%	17.66%	0.16%	4.80%	0.16%	60.08	65,460	4.70	12.80	31.65	5.56				0	420,523	55,900	45.06	Tue 22
Wed 23	83.64%	69.44%	55.55%	2.81%	18.20%	0.17%	4.86%	0.17%	52.57	51,500	6.03	8.71	33.35					0	358,072	66,400	30.04	Wed 23
Thu 24				2.78%	29.72%	0.15%	4.92%	0.15%	45.06	44,361	5.14	8.76	35.51	3.75				0	339,872	56,000	45.06	Thu 24
Fri 25				2.64%	16.50%	0.14%	4.06%	0.14%	82.61	76,946	8.47	9.75	36.25					0	432,662	55,200	30.04	Fri 25
Sat 26				2.53%	17.04%	0.14%	3.87%	0.14%	30.04	32,007	3.38	8.90	18.79					0	236,733	65,000	30.04	Sat 26
Sun 27				2.21%	18.27%	0.13%	6.54%	0.13%	30.04	32,283	2.98	10.10						0	207,645	43,700	30.04	Sun 27
Mon 28				2.89%	18.25%	0.13%	6.58%	0.13%	67.59	59,884	7.22	9.37	67.66					0	300,125	38,099	30.04	Mon 28
Tue 29				1.93%	16.27%	0.15%	5.84%	0.15%	75.10	92,192	7.42	10.12	36.58	5.85		27.20		0	548,235	57,301	45.06	Tue 29
Wed 30	85.36%	68.57%	62.58%	1.91%	16.00%	0.16%	4.40%	0.16%	82.61	89,424	7.12	11.60	35.33					0	427,670	68,899	52.57	Wed 30
Thu 31				2.36%	16.93%	0.15%	3.92%	0.15%	45.06	75,964	7.48	6.03	35.22					0	239,113	41,260	22.53	Thu 31
Total:					549.69%				2,125.33	2,029,601	199.88	10.63	1092.47	23.75	0.00	27.20	0.00	0	10,545,953	1,896,460	1141.52	
Ave:	84.98%	66.94%	63.86%	2.41%	18.32%	0.14%	4.81%	0.14%	68.56	65,471	6.45	10.69	42.02	5.94	0.00	27.20	0.00	0	340,192	61,176	36.82	
Min:	83.33%	64.23%	55.55%	1.72%	16.00%	0.10%	3.34%	0.10%	0.00	0	0.00	6.03	15.93									
Max:	86.78%	69.44%	70.31%	3.69%	29.72%	0.19%	6.58%	0.19%	142.69	130,518	14.66	14.16	70.88									

Total Dry Tons, Cake =	1092.47	x	18.32	x	0.01 =	200.14 dry tons

January 2013 Solids Operations Report

10 PM - 6 AM

Date	BFP % Solids Feed	Cake	Filtrate (1-3750-85)	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened	Filtrate (1-3750-85)	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Tue 1	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Wed 2	2.10%	17.38%	0.11%	42,513	45.06	3.72	12.10	95.37%	24.00	0.16	0.20	5.47%	0.11%	206,780	67,101	67.55%	37.55	15.31	2.45	16.00	0.96	0.307792
Thu 3	2.01%	17.09%	0.18%	45,324	52.57	3.80	13.84	92.01%	24.00	0.16	0.34	5.65%	0.18%	302,272	49,600	83.59%	30.04	11.69	2.57	16.00	0.73	0.372298
Fri 4	2.59%	16.20%	0.14%	53,978	60.08	5.83	10.31	95.42%	24.00	0.24	0.32	5.05%	0.14%	297,749	44,501	85.05%	30.04	9.37	3.21	16.00	0.59	0.259797
Sat 5	2.53%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 6	2.58%	18.19%	0.12%	26,532	37.55	3.07	12.23	95.98%	16.00	0.19	0.14	4.79%	0.12%	235,237	58,400	75.17%	30.04	11.66	2.58	16.00	0.73	0.292234
Mon 7	2.74%	21.19%	0.10%	18,504	15.02	2.11	7.10	96.81%	16.00	0.13	0.08	4.62%	0.10%	240,935	61,699	74.39%	30.04	11.89	2.53	16.00	0.74	0.257285
Tue 8	1.84%	16.78%	0.12%	41,970	45.06	3.22	13.99	94.15%	16.50	0.20	0.21	5.51%	0.12%	241,405	48,699	79.83%	37.55	11.19	3.36	9.00	1.24	0.24369
Wed 9	1.96%	17.70%	0.13%	50,916	52.57	4.16	12.63	94.06%	24.00	0.17	0.28	4.01%	0.13%	282,140	45,499	83.87%	30.04	7.61	3.95	16.00	0.48	0.24665
Thu 10	3.69%	24.18%	0.15%	51,589	60.08	7.94	7.57	96.53%	24.00	0.33	0.32	3.97%	0.15%	276,360	48,301	82.52%	22.53	8.00	2.82	16.00	0.50	0.302123
Fri 11	2.17%	16.65%	0.13%	46,380	45.06	4.20	10.74	94.75%	24.00	0.17	0.25	6.46%	0.13%	269,549	46,301	82.82%	37.55	12.47	3.01	16.00	0.78	0.250998
Sat 12	2.36%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 13	2.44%	17.36%	0.17%	20,682	15.02	2.10	7.14	93.95%	16.00	0.13	0.15	5.18%	0.17%	262,232	59,301	77.39%	22.53	12.81	1.76	16.00	0.80	0.420385
Mon 14	2.65%	18.16%	0.15%	50,488	60.08	5.58	10.77	95.13%	14.00	0.40	0.32	4.66%	0.15%	253,074	59,300	76.57%	37.55	11.52	3.26	14.00	0.82	0.370922
Tue 15	2.42%	19.09%	0.17%	55,068	60.08	5.56	10.81	93.81%	14.00	0.40	0.39	4.87%	0.17%	263,664	57,200	78.31%	22.53	11.62	1.94	14.00	0.83	0.405491
Wed 16	1.93%	16.18%	0.14%	55,500	60.08	4.47	13.45	93.56%	14.00	0.32	0.32	4.93%	0.14%	232,824	52,200	77.58%	45.06	10.73	4.20	14.00	0.77	0.304744
Thu 17	2.31%	17.92%	0.14%	60,033	52.57	5.78	9.09	94.68%	16.00	0.36	0.35	5.01%	0.14%	299,122	34,300	88.53%	37.55	7.17	5.24	16.00	0.45	0.200243
Fri 18	2.88%	23.45%	0.12%	52,164	60.08	6.26	9.59	96.33%	16.00	0.39	0.26	5.29%	0.12%	245,194	38,601	84.26%	37.55	8.52	4.41	16.00	0.53	0.193159
Sat 19	2.78%	17.21%	0.14%	30,406	37.55	3.52	10.65	95.74%	16.00	0.22	0.18	3.92%	0.14%	221,911	49,400	77.74%	37.55	8.08	4.65	12.00	0.67	0.288397
Sun 20	2.25%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 21	2.30%	18.10%	0.14%	49,202	45.06	4.72	9.55	94.65%	16.00	0.29	0.29	3.46%	0.14%	268,788	48,800	81.84%	30.04	7.04	4.27	16.00	0.44	0.284894
Tue 22	1.72%	17.66%	0.16%	34,541	37.55	2.48	15.16	91.53%	16.00	0.15	0.23	4.80%	0.16%	269,961	37,500	86.11%	30.04	7.51	4.00	16.00	0.47	0.2502
Wed 23	2.81%	18.20%	0.17%	28,400	30.04	3.33	9.03	94.84%	10.00	0.33	0.20	4.86%	0.17%	210,461	33,999	83.85%	22.53	6.89	3.27	14.00	0.49	0.241019
Thu 24	2.78%	29.72%	0.15%	34,141	37.55	3.96	9.49	95.08%	14.00	0.28	0.21	4.92%	0.15%	278,922	42,700	84.69%	37.55	8.76	4.29	14.00	0.63	0.267089
Fri 25	2.64%	16.50%	0.14%	39,520	37.55	4.35	8.63	95.51%	16.00	0.27	0.23	4.06%	0.14%	273,643	30,200	88.96%	22.53	5.11	4.41	16.00	0.32	0.176308
Sat 26	2.53%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 27	2.21%	18.27%	0.13%	32,283	30.04	2.98	10.10	94.79%	12.00	0.25	0.18	6.54%	0.13%	207,645	43,700	78.95%	30.04	11.92	2.52	11.00	1.08	0.236898
Mon 28	2.89%	18.25%	0.13%	24,944	30.04	3.01	9.99	96.19%	14.00	0.21	0.14	6.58%	0.13%	276,613	36,300	86.88%	22.53	9.96	2.26	16.00	0.62	0.196782
Tue 29	1.93%	16.27%	0.15%	44,892	37.55	3.61	10.39	93.09%	22.00	0.16	0.28	5.84%	0.15%	334,661	40,601	87.87%	30.04	9.89	3.04	16.00	0.62	0.253959
Wed 30	1.91%	16.00%	0.16%	40,431	37.55	3.22	11.66	92.55%	24.00	0.13	0.27	4.40%	0.16%	261,617	46,100	82.38%	37.55	8.46	4.44	16.00	0.53	0.307579
Thu 31	2.36%		0.15%	12,420	0.00	1.22	0.00	0.00%	6.00		0.08			29,239	14,801		0.00			4.00		
Total =				1,044,821	1081.44	104.20	10.38	91.02%	448.50	6.07	6.20			6,541,998	1,195,104	81.73%	788.55	245.15	3.22	378.00	16.81	6.93
Average =	2.33%	17.55%	0.14%	33,704	34.89	3.36	10.23	91.02%	14.47	0.24	0.21	4.99%	0.14%	211,032	38,552	81.47%	25.44	9.81	3.38	12.19	0.67	0.28
Minimum =	0.00%	16.00%	0.00%	0	0.00	0.00	0.00	0.00%	0.00	0.13	0.00	3.46%	0.10%	0	0	67.55%	0.00	5.11	1.76	0.00	0.32	0.18
Maximum =	3.69%	29.72%	0.19%	60,033	60.08	7.94	15.16	96.81%	24.00	0.40	0.39	6.58%	0.18%	334,661	67,101	88.96%	45.06	15.31	5.24	16.00	1.24	0.42

(%feed)(%cake - %filtrate)

January 2013 Solids Operations Report

10 PM - 6 AM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thickn Sludge	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Tue 1																										
Wed 2	8	3.40%	17.07%	0.15%	5.19%	2.30%	18.87%	0.16%	5.10%	0	0	14012	28501	2	4	59,000	147,780	67,101	4	1	0.00	8.00	8.00	8.00	8.00	8.00
Thu 3	8	2.80%	19.02%	0.16%	4.85%	2.30%	17.61%	0.15%	4.19%	0	0	16724	28600	2	5	140,701	161,571	49,600	2	2	0.00	8.00	8.00	8.00	8.00	8.00
Fri 4	8	2.40%	19.13%	0.17%	4.87%	2.68%	18.53%	1.60%	4.28%	0	0	19579	34399	3	5	130,299	167,450	44,501	2	2	0.00	8.00	8.00	8.00	8.00	8.00
Sat 5																										
Sun 6	8	2.45%	17.90%	0.14%	4.59%	2.75%	18.61%	0.13%	4.50%	0	0	13832	14700	2	3	103,701	131,536	58,400	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Mon 7	8	3.10%	20.37%	0.15%	4.86%	2.90%	21.15%	0.15%	4.73%	0	0	9004	9500	1	1	105,800	135,135	61,699	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Tue 8	8	2.85%	20.06%	0.13%	4.84%	2.15%	19.31%	0.14%	4.22%	0	0	20070	21900	3	3	800	240,605	48,699	3	2	0.00	0.50	8.00	8.00	1.00	8.00
Wed 9	8	2.40%	17.80%	0.14%	5.15%	1.90%	17.95%	0.13%	4.80%	0	0	18416	32500	3	4	131,400	150,740	45,499	2	2	0.00	8.00	8.00	8.00	8.00	8.00
Thu 10	8	2.85%	19.79%	0.16%	5.05%	2.61%	19.18%	0.14%	4.55%	0	0	19290	32299	3	5	116,401	159,959	48,301	2	1	0.00	8.00	8.00	8.00	8.00	8.00
Fri 11	8	1.95%	18.10%	0.13%	4.95%	2.20%	31.06%	0.12%	4.24%	0	0	18180	28200	2	4	111,800	157,749	46,301	3	2	0.00	8.00	8.00	8.00	8.00	8.00
Sat 12																										
Sun 13	8	2.70%	16.40%	0.14%	4.85%	1.85%	17.48%	0.15%	4.62%	0	0	10182	10500	1	1	98,700	163,532	59,301	2	1	0.00	0.00	8.00	8.00	8.00	8.00
Mon 14	8	2.85%	17.84%	0.13%	4.78%	2.35%	17.98%	0.14%	5.03%	0	0	18288	32200	3	5	96,100	156,974	59,300	3	2	0.00	0.00	7.00	7.00	7.00	7.00
Tue 15	7	2.60%	18.25%	0.16%	4.87%	2.15%	19.03%	0.15%	4.60%	0	0	19968	35100	2	6	100,800	162,864	57,200	2	1	0.00	0.00	7.00	7.00	7.00	7.00
Wed 16	7	2.45%	18.83%	0.15%	2.60%	5.08%	17.90%	0.15%	5.08%	0	0	20000	35500	3	5	105,000	127,824	52,200	4	2	0.00	0.00	7.00	7.00	7.00	7.00
Thu 17	8	2.25%	18.05%	0.15%	4.90%	1.70%	16.92%	0.14%	4.49%	0	0	20632	39401	2	5	126,601	172,521	34,300	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Fri 18	8	2.25%	17.80%	0.15%	4.95%	2.00%	18.19%	0.16%	4.40%	0	0	18964	33200	3	5	106,100	139,094	38,601	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Sat 19	8	2.65%	18.02%	0.16%	4.40%	3.15%	16.87%	0.14%	4.40%	0	0	15006	15400	3	2	88,900	133,011	49,400	3	2	0.00	0.00	8.00	8.00	6.00	6.00
Sun 20																										
Mon 21	8	2.90%	17.86%	0.14%	4.95%	1.95%	18.01%	0.15%	4.45%	0	0	16902	32300	2	4	106,199	162,589	48,800	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Tue 22	8	2.42%	18.12%	0.13%	4.86%	1.60%	18.57%	0.15%	4.48%	0	0	16740	17801	3	2	108,300	161,661	37,500	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Wed 23	5	2.55%	18.35%	0.14%	4.95%	2.70%	18.02%	0.14%	4.71%	0	0	15000	13400	2	2	79,700	130,761	33,999	2	1	0.00	0.00	5.00	5.00	7.00	7.00
Thu 24	7	3.00%	28.18%	0.16%	4.90%	2.30%	17.60%	0.15%	4.70%	0	0	17640	16501	3	2	102,500	176,422	42,700	3	2	0.00	0.00	7.00	7.00	7.00	7.00
Fri 25	8	2.55%	25.90%	0.16%	4.82%	2.25%	17.90%	0.15%	4.69%	0	0	20920	18600	3	2	100,000	173,643	30,200	2	1	0.00	0.00	8.00	8.00	8.00	8.00
Sat 26																										
Sun 27	8	2.75%	17.88%	0.15%	4.74%	1.90%	17.95%	0.15%	5.40%	0	0	16882	15401	2	2	80,201	127,444	43,700	3	1	0.00	0.00	6.00	6.00	5.00	6.00
Mon 28	8	2.90%	17.32%	0.16%	4.83%	2.60%	17.60%	0.14%	5.25%	0	0	11944	13000	2	2	105,799	170,814	36,300	2	1	0.00	0.00	7.00	7.00	8.00	8.00
Tue 29	8	2.80%	17.68%	0.16%	4.83%	2.45%	17.90%	0.15%	4.66%	0	0	17493	27399	2	3	147,100	187,561	40,601	2	2	0.00	6.00	8.00	8.00	8.00	8.00
Wed 30	8	2.60%	17.90%	0.16%	4.73%	1.90%	18.10%	0.15%	4.45%	0	0	14831	25600	2	3	112,100	149,517	46,100	3	2	0.00	8.00	8.00	8.00	8.00	8.00
Thu 31	2									0	0	4420	8000	0	0	0	29,239	14,801	0	0	0.00	2.00	2.00	2.00	2.00	2.00
	196	2.66%	18.94%	0.15%	4.77%	2.39%	18.73%	0.20%	4.64%	0	0	424919	619902	59	85	2,564,002	3,977,996	1,195,104	66	39	0.00	64.50	192.00	192.00	185.00	193.00
	Min:	1.95%	16.40%	0.13%	2.60%	1.60%	16.87%	0.12%	4.19%																	
	Max:	3.40%	28.18%	0.17%	5.19%	5.08%	31.06%	1.60%	5.40%	0	0	20920	39401	3	6	147,100	240,605	67,101	4	2	0.00	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

January 2013 Solids Operations Report

6 AM - 2 PM

Date	Hours of Operation	Mix Tank Level	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd	GBT Polymer		Hours of Operation					
			1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Tue 1																										
Wed 2	8	8.18	1.90%	16.37%	0.15%	4.85%	2.05%	16.22%	0.14%	5.09%	0	0	16,772	36,300	3	4	60,199	105,047	26,700	2	1	0.00	8.00	8.00	8.00	8.00	8.00
Thu 3	8	7.43	2.25%	16.46%	0.14%	6.85%	1.70%	15.72%	0.14%		0	0	19,838	32,600	3	5	68,899	81,233	15,699	1	1	0.00	8.00	8.00	8.00	7.00	7.00
Fri 4	8	7.61	2.70%	14.53%	0.14%	5.56%	1.95%	15.94%	0.12%		0	0	18,387	24,001	3	3	72,702	94,096	19,800	1	0	0.00	7.00	8.00	8.00	7.00	7.00
Sat 5	8	9.67	3.30%	18.98%	0.15%	4.51%	2.20%	16.44%	0.14%	3.44%	0	0	18,452	22,500	3	3	85,399	134,789	76,200	2	1	0.00	0.00	8.00	8.00	8.00	8.00
Sun 6																										
Mon 7																										
Tue 8	8	10.02	2.05%	16.57%	0.12%	5.85%	1.80%	16.27%	0.15%	4.54%	0	0	19,390	31,000	3	4	43,800	153,404	25,801	2	1	0.00	8.00	8.00	8.00	7.00	7.00
Wed 9	8	8.34	2.00%	17.54%	0.12%	5.88%	2.25%	17.35%	0.12%	4.40%	0	0	20,700	32,700	2	6	97,599	125,487	20,700	2	1	0.00	8.00	8.00	8.00	8.00	8.00
Thu 10	8	7.19	2.15%	17.52%	0.12%	6.89%	5.60%	31.49%	0.12%		0	0	20,106	23,601	3	4	72,000	91,513	11,199	1	1	0.00	7.00	8.00	8.00	7.50	7.50
Fri 11	8	7.11	2.00%	16.22%	0.12%	7.67%	7.67%	2.35%	17.19%	0.12%	0	0	14,342	29,500	3	4	65,600	100,891	18,400	1	0	0.00	8.00	8.00	8.00	7.00	7.00
Sat 12	8	9.54	2.50%	18.06%	0.12%	4.05%	1.90%	16.57%	0.12%	3.36%	0	0	15,638	22,099	3	4	86,500	127,516	81,399	2	1	0.00	7.00	7.50	7.50	7.00	7.00
Sun 13																										
Mon 14																										
Tue 15																										
Wed 16	6	5.64	1.85%	16.98%	0.14%		2.00%	16.80%	0.14%	5.65%	0	0	16,860	31,301	2	4	49,000	58,314	20,100	1	1	0.00	0.00	6.00	6.00	3.00	3.00
Thu 17	6										0	0	13,600	26,900	2	5	47,399	66,454	16,100	0	0	0.00	0.00	6.00	6.00	3.00	3.00
Fri 18	8	7.85	2.00%	16.70%	0.14%	6.35%	5.95%	29.98%	0.14%		0	0	17,170	16,099	2	2	64,300	86,976	18,800	1	1	0.00	0.00	8.00	8.00	4.00	4.00
Sat 19	8	10.47	2.65%	18.02%	0.15%	4.40%	3.15%	16.87%	0.14%	3.78%	0	0	9,640	15,801	0	5	104,100	140,306	73,900	1	0	0.00	0.00	8.00	8.00	8.00	8.00
Sun 20																										
Mon 21	8	8.96	2.10%	15.54%	0.14%	4.05%	2.10%	18.82%	0.15%	5.52%	0	0	16,026	32,999	2	4	84,001	141,408	24,600	1	1	0.00	0.00	8.00	8.00	6.00	6.00
Tue 22	8	7.67	2.00%	17.07%	0.15%	4.94%	1.80%	17.00%	0.15%		0	0	13,220	17,699	1	2	57,300	93,262	18,400	1	1	0.00	0.00	8.00	8.00	4.00	4.00
Wed 23	8	7.32	2.55%	19.00%	0.15%	4.85%	2.10%	18.57%	0.15%	4.45%	0	0	11,700	11,400	1	2	58,900	88,711	32,401	1	0	0.00	0.00	5.00	5.00	5.00	5.00
Thu 24																										
Fri 25	8	7.81	2.50%	18.38%	0.13%	4.73%	2.25%	16.01%	0.14%		0	0	19,726	17,700	3	3	63,400	95,619	25,000	1	0	0.00	0.00	8.00	8.00	4.00	4.00
Sat 26	8	10.30	2.80%	17.05%	0.12%	3.58%	2.05%	16.49%	0.13%	4.23%	0	0	17,408	14,599	2	2	100,799	135,934	65,000	2	2	0.00	0.00	7.00	7.00	7.00	7.00
Sun 27																										
Mon 28	8	5.67	2.55%	18.56%			2.30%	18.06%	0.14%		0	0	19,040	15,900	3	2	7,601	15,911	1,799	1	0	0.00	0.00	8.00	8.00	1.50	5.50
Tue 29	8	7.18	2.10%	17.43%	0.12%	5.96%	1.80%	16.25%	0.12%	6.24%	0	0	17,099	30,201	2	3	115,700	97,874	16,700	1	1	0.00	8.00	8.00	8.00	7.00	7.00
Wed 30	8	7.30	2.45%	18.01%	0.12%	4.92%	2.40%	17.77%	0.13%	3.89%	0	0	17,893	31,100	3	3	70,500	95,553	22,799	1	1	0.00	8.00	8.00	8.00	7.00	7.00
Thu 31	8	9.13	2.45%	16.12%	0.01%	4.38%	2.20%	18.14%	0.14%	3.79%	0	0	19,140	33,800	2	4	1,499	157,925	4,960	3	0	0.00	8.00	8.00	8.00	6.00	8.00
	172		2.33%	17.20%	0.13%	5.28%	2.72%	17.58%	0.95%	4.18%	0	0	372,147	549,800	51	78	1,477,197	2,288,223	636,457	29	15	0.00	85.00	167.50	167.50	132.00	138.00
		5.64	1.85%	14.53%	0.01%	3.58%	1.70%	2.35%	0.12%	0.12%																
		10.47	3.30%	19.00%	0.15%	7.67%	7.67%	31.49%	17.19%	6.24%	0	0	20,700	36,300	3	6	115,700	157,925	81,399	3	2	0.00	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

January 2013 Solids Operations Report

6 AM - 2 PM

Date	% Solids Feed	% Solids Cake (1.3750-85)	% Solids Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickned (1.3750-85)	GBT % Solids Filtrate (1.3750-85)	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Tue 1	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Wed 2	2.10%	17.38%	0.11%	53,072	52.57	4.65	11.31	95.37%	24.00	0.19	0.24	5.47%	0.11%	165,246	26,700	83.84%	22.53	6.09	3.70	16.00	0.38	0.76
Thu 3	2.01%	17.09%	0.18%	52,438	60.08	4.40	13.67	92.01%	24.00	0.18	0.39	5.65%	0.18%	150,132	15,699	89.54%	15.02	3.70	4.06	14.00	0.26	1.13
Fri 4	2.59%	16.20%	0.14%	42,388	45.06	4.58	9.84	95.42%	23.00	0.20	0.25	5.05%	0.14%	166,798	19,800	88.13%	7.51	4.17	1.80	14.00	0.30	0.97
Sat 5	2.53%	17.78%	0.11%	40,952	45.06	4.32	10.43	96.25%	16.00	0.27	0.19	3.34%	0.11%	220,188	76,200	65.39%	22.53	10.61	2.12	16.00	0.66	1.01
Sun 6	2.58%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 7	2.74%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 8	1.84%	16.78%	0.12%	50,390	52.57	3.87	13.60	94.15%	24.00	0.16	0.25	5.51%	0.12%	197,204	25,801	86.92%	22.53	5.93	3.80	14.00	0.42	0.99
Wed 9	1.96%	17.70%	0.13%	53,400	60.08	4.36	13.77	94.06%	24.00	0.18	0.29	4.01%	0.13%	223,086	20,700	90.72%	22.53	3.46	6.51	16.00	0.22	1.21
Thu 10	3.69%	24.18%	0.15%	43,707	52.57	6.73	7.82	96.53%	23.00	0.29	0.27	3.97%	0.15%	163,513	11,199	93.15%	15.02	1.85	8.10	15.00	0.12	1.02
Fri 11	2.17%	16.65%	0.13%	43,842	52.57	3.97	13.25	94.75%	24.00	0.17	0.24	6.46%	0.13%	166,491	18,400	88.95%	7.51	4.96	1.52	14.00	0.35	0.90
Sat 12	2.36%	17.07%	0.19%	37,737	52.57	3.71	14.16	92.98%	22.00	0.17	0.30	3.58%	0.19%	214,016	81,399	61.97%	22.53	12.15	1.85	14.00	0.87	1.70
Sun 13	2.44%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 14	2.65%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 15	2.42%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 16	1.93%	16.18%	0.14%	48,161	45.06	3.88	11.63	93.56%	12.00	0.32	0.28	4.93%	0.14%	107,314	20,100	81.27%	15.02	4.13	3.63	6.00	0.69	0.63
Thu 17	2.31%	17.92%	0.14%	40,500	52.57	3.90	13.48	94.68%	12.00	0.33	0.24	5.01%	0.14%	113,853	16,100	85.86%	0.00	3.36	0.00	6.00	0.56	0.66
Fri 18	2.88%	23.45%	0.12%	33,269	30.04	4.00	7.52	96.33%	16.00	0.25	0.17	5.29%	0.12%	151,276	18,800	87.57%	15.02	4.15	3.62	8.00	0.52	0.76
Sat 19	2.78%	17.21%	0.14%	25,441	37.55	2.95	12.73	95.74%	16.00	0.18	0.15	3.92%	0.14%	244,406	73,900	69.76%	7.51	12.08	0.62	16.00	0.75	1.43
Sun 20	2.25%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 21	2.30%	18.10%	0.14%	49,025	45.06	4.70	9.58	94.65%	16.00	0.29	0.29	3.46%	0.14%	225,409	24,600	89.09%	15.02	3.55	4.23	12.00	0.30	1.32
Tue 22	1.72%	17.66%	0.16%	30,919	22.53	2.22	10.16	91.53%	16.00	0.14	0.21	4.80%	0.16%	150,562	18,400	87.78%	15.02	3.68	4.08	8.00	0.46	1.00
Wed 23	2.81%	18.20%	0.17%	23,100	22.53	2.71	8.32	94.84%	10.00	0.27	0.16	4.86%	0.17%	147,611	32,401	78.05%	7.51	6.57	1.14	10.00	0.66	1.05
Thu 24	2.78%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 25	2.64%	16.50%	0.14%	37,426	45.06	4.12	10.94	95.51%	16.00	0.26	0.22	4.06%	0.14%	159,019	25,000	84.28%	7.51	4.23	1.77	8.00	0.53	0.93
Sat 26	2.53%	17.04%	0.14%	32,007	30.04	3.38	8.90	95.25%	14.00	0.24	0.19	3.87%	0.14%	236,733	65,000	72.54%	30.04	10.49	2.86	14.00	0.75	1.38
Sun 27	2.21%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 28	2.89%	18.25%	0.13%	34,940	37.55	4.21	8.92	96.19%	16.00	0.26	0.19	6.58%	0.13%	23,512	1,799	92.35%	7.51	0.49	15.21	7.00	0.07	0.13
Tue 29	1.93%	16.27%	0.15%	47,300	37.55	3.81	9.86	93.09%	24.00	0.16	0.30	5.84%	0.15%	213,574	16,700	92.18%	15.02	4.07	3.69	14.00	0.29	1.34
Wed 30	1.91%	16.00%	0.16%	48,993	45.06	3.90	11.55	92.55%	24.00	0.16	0.33	4.40%	0.16%	166,053	22,799	86.27%	15.02	4.18	3.59	14.00	0.30	1.11
Thu 31	2.36%	16.93%	0.15%	52,940	45.06	5.21	8.65	94.48%	24.00	0.22	0.33	3.92%	0.15%	159,424	4,960	96.89%	22.53	0.81	27.79	14.00	0.06	1.00
Total =				921,947	968.79	89.55	10.82	94.54%	420.00	4.90	5.46			3,765,420	636,457	83.10%	330.44	114.72	2.88	270.00	9.52	22.41
Average =	2.33%	17.75%	0.14%	29,740	31.25	2.89	10.91	94.54%	13.55	0.22	0.18	4.76%	0.14%	121,465	20,531	84.20%	10.66	5.21	4.81	8.71	0.43	1.02
Minimum =	0.00%	16.00%	0.00%	0	0.00	0.00	7.52	91.53%	0.00	0.14	0.00	3.34%	0.11%	0	0	61.97%	0.00	0.49	0.00	0.00	0.06	0.13
Maximum =	3.69%	24.18%	0.19%	53,400	60.08	6.73	14.16	96.53%	24.00	0.33	0.39	6.58%	0.19%	244,406	81,399	96.89%	30.04	12.15	27.79	16.00	0.87	1.70

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

January 2013 Solids Operations Report

2 PM - 10 PM

Date	Hours of Operation	% Solids 1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP Sludge Processed BFP 1	BFP 2	BFP 3	BFP 4	BFP Polymer 1-2-3	4-5-6	GBT 1	GBT 2	Thicknd Sludge	GBT Polymer 7	8	Hours of Operation BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Tue 1																										
Wed 2																										
Thu 3																										
Fri 4																										
Sat 5																										
Sun 6																										
Mon 7	4					2.85%	19.44%	0.15%	4.95%	0	0	7,352	7,800	2	2	0	28,630	7,701	1	0	0.00	0.00	4.00	4.00	4.00	4.00
Tue 8																										
Wed 9																										
Thu 10																										
Fri 11																										
Sat 12																										
Sun 13																										
Mon 14																										
Tue 15																										
Wed 16	4					2.38%	18.09%	0.16%	4.85%	0	0	9,158	17,699	2	3	30,799	67,706	22,399	1	0	0.00	0.00	4.00	4.00	2.00	4.00
Thu 17																										
Fri 18																										
Sat 19																										
Sun 20																										
Mon 21																										
Tue 22																										
Wed 23																										
Thu 24	4					2.65%	18.12%	0.15%	4.60%	0	0	5,120	5,100	0	1	20,200	40,750	13,300	1	0	0.00	0.00	4.00	4.00	4.00	4.00
Fri 25																										
Sat 26																										
Sun 27																										
Mon 28																										
Tue 29																										
Wed 30																										
Thu 31	2									0	0	3,804	6,800	0	0	1,100	49,350	21,499	0	0	0.00	2.00	2.00	2.00	0.00	2.00
	14					2.63%	18.55%	0.15%	4.80%	0	0	25,434	37,399	4	6	52,099	186,436	64,899	3	0	0.00	2.00	14.00	14.00	10.00	14.00
	Min:	0.00%	0.00%	0.00%	0.00%	2.38%	18.09%	0.15%	4.60%																	
	Max:	0.00%	0.00%	0.00%	0.00%	2.85%	19.44%	0.16%	4.95%	0	0	9,158	17,699	2	3	30,799	67,706	22,399	1	0	0.00	2.00	4.00	4.00	4.00	4.00

Numbers in Red Font are Lab Data

January 2013 Solids Operations Report

2 PM - 10 PM

Date	% Solids Feed	% Solids Cake (>3750 lbs)	% Solids Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened	GBT % Solids Filtrate (<3750 lbs)	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Tue 1	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Wed 2	2.10%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 3	2.01%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 4	2.59%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 5	2.53%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 6	2.58%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 7	2.74%	21.19%	0.10%	15,152	30.04	1.73	17.35	96.81%	8.00	0.22	0.06	4.62%	0.10%	28,630	7,701	73.10%	7.51	1.48	5.06	8.00	0.19	0.12
Tue 8	1.84%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 9	1.96%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 10	3.69%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 11	2.17%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 12	2.36%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 13	2.44%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 14	2.65%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 15	2.42%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 16	1.93%	16.18%	0.14%	26,857	37.55	2.16	17.37	93.56%	8.00	0.27	0.16	4.93%	0.14%	98,505	22,399	77.26%	7.51	4.60	1.63	6.00	0.77	0.58
Thu 17	2.31%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 18	2.88%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 19	2.78%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 20	2.25%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 21	2.30%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 22	1.72%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 23	2.81%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 24	2.78%	29.72%	0.15%	10,220	7.51	1.18	6.34	95.08%	8.00	0.15	0.06	4.92%	0.15%	60,950	13,300	78.18%	7.51	2.73	2.75	8.00	0.34	0.38
Fri 25	2.64%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 26	2.53%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 27	2.21%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 28	2.89%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 29	1.93%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 30	1.91%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 31	2.36%	16.93%	0.15%	10,604	0.00	1.04	0.00	94.48%	6.00	0.17	0.07	3.92%	0.15%	50,450	21,499	57.39%	0.00	3.51	0.00	2.00	1.76	0.32
Total =				62,833	75.10	6.12	12.27	94.98%	30.00	0.81	0.35			238,535	64,899	72.79%	22.53	12.33	1.83	24.00	3.05	1.39
Average =	2.33%	23.01%	0.14%	2,027	2.42	0.20	10.27	94.98%	0.97	0.20	0.01	4.60%	0.14%	7,695	2,094	71.48%	0.73	3.08	2.36	0.77	0.76	0.35
Minimum =	0.00%	16.18%	0.00%	0	0.00	0.00	0.00	93.56%	0.00	0.15	0.00	3.92%	0.10%	0	0	57.39%	0.00	1.48	0.00	0.00	0.19	0.12
Maximum =	3.69%	29.72%	0.19%	26,857	37.55	2.16	17.37	96.81%	8.00	0.27	0.16	4.93%	0.15%	98,505	22,399	78.18%	7.51	4.60	5.06	8.00	1.76	0.58

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

January 2013 Sludge Inventory Report

Date	Pumped from PSTs to Pri. Dig. (gal)	Pumped from PSTs to Mix Tank (gal)	Pumped from PSTs Total (gal)	Thickened Sludge to Pri. Dig. (gal)	Secondary Sludge to Mix Tank (gal)	Dig 1 (in.)	Dig 2 (in.)	Dig 3 (in.)	Mix Tank (in.)	Dig 4 (in.)	Dig 5 (in.)	Pri.Dig.Sldg. Inventory (gal)	Sec.Dig.Sldg. Inventory (gal)	Transfer (calculated) (gal)	Supernated (gal)	Pressed (gal)	Mix Tank Overflow Potential Calculated (gal)
									0			258,500	181,500				
Tue 1	16,816	73,431	90,247	0	195,000	39	23	30	0	31	34	253,000	178,750	22,316	0	0	0
Wed 2	0	112,490	112,490	93,801	130,000	20	45	32	98	33	28	501,950	167,750	0	0	95,585	0
Thu 3	0	115,466	115,466	65,299	351,000	43	20	21	89	30	33	444,600	173,250	122,649	0	97,762	0
Fri 4	0	109,870	109,870	64,301	132,000	19	39	25	91	25	25	446,650	137,500	62,251	0	96,366	0
Sat 5	0	111,183	111,183	76,200	119,000	34	19	40	116	27	26	534,150	145,750	0	0	40,952	0
Sun 6	0	109,095	109,095	58,400	151,000	16	33	21	0	29	47	192,500	209,000	400,050	0	28,532	0
Mon 7	0	110,042	110,042	69,400	180,000	34	28	21	0	39	40	228,250	217,250	33,650	0	33,656	0
Tue 8	0	109,400	109,400	74,500	204,000	23	24	40	120	40	31	527,250	195,250	0	0	92,360	0
Wed 9	0	108,133	108,133	66,199	237,000	28	18	21	100	36	37	424,250	200,750	169,199	0	104,316	0
Thu 10	0	107,967	107,967	59,500	165,000	30	24	21	86	31	23	412,650	148,500	71,100	0	95,296	0
Fri 11	0	106,598	106,598	64,701	134,000	17	38	23	85	19	17	418,500	99,000	58,851	0	90,222	0
Sat 12	0	105,925	105,925	81,399	93,000	33	18	40	114	25	18	523,850	118,250	0	0	37,737	0
Sun 13	0	107,297	107,297	59,301	263,000	45	28	20	0	29	24	255,750	145,750	327,401	0	20,682	0
Mon 14	0	106,851	106,851	59,300	236,000	18	38	20	0	35	32	209,000	184,250	106,050	0	50,488	0
Tue 15	0	104,272	104,272	57,200	259,000	15	16	39	0	34	31	192,500	178,750	73,700	0	55,068	0
Wed 16	0	129,894	129,894	94,699	141,000	39	27	20	68	30	21	399,700	140,250	0	0	130,518	0
Thu 17	0	105,321	105,321	50,400	197,000	18	24	31	0	26	16	200,750	115,500	249,350	0	100,533	0
Fri 18	0	116,958	116,958	57,401	138,000	26	18	20	94	24	20	401,600	121,000	0	0	85,433	0
Sat 19	15,950	87,136	103,086	123,300	131,000	48	18	34	126	18	18	577,400	99,000	0	0	55,847	0
Sun 20	0	104,979	104,979	0	203,000	19	31	19	0	35	26	189,750	167,750	387,650	0	0	0
Mon 21	16,041	97,387	113,428	73,400	85,000	39	42	10	108	16	16	509,450	88,000	0	0	98,227	0
Tue 22	0	106,627	106,627	55,900	190,000	20	18	29	92	20	22	405,050	115,500	160,300	0	65,460	0
Wed 23	0	109,558	109,558	66,400	210,000	19	42	18	88	20	16	428,450	99,000	43,000	0	51,500	0
Thu 24	0	111,437	111,437	56,000	182,000	36	18	18	0	27	18	198,000	123,750	286,450	0	44,361	0
Fri 25	0	111,820	111,820	55,200	40,000	19	17	39	94	20	12	431,850	88,000	0	0	76,946	0
Sat 26	0	111,439	111,439	65,000	226,000	48	16	19	124	21	16	525,850	101,750	0	0	32,007	0
Sun 27	7,975	103,083	111,058	43,700	198,000	25	31	20	0	23	23	209,000	126,500	368,525	0	32,283	0
Mon 28	71,775	27,146	98,921	38,099	261,000	45	34	26	68	14	21	451,950	96,250	0	0	59,884	0
Tue 29	0	105,650	105,650	57,301	134,000	22	24	41	86	20	16	445,650	99,000	63,601	0	92,192	0
Wed 30	0	109,504	109,504	68,899	246,000	22	31	19	88	27	18	409,200	123,750	105,349	0	89,424	0
Thu 31	0	106,608	106,608	41,260	270,000	41	20	34	110	15	20	525,250	96,250	0	0	75,964	0
	128,557	3,242,567	3,371,124	1,896,460	5,701,000									3,111,442	0	2,029,601	0
Ave:	4,147	104,599	108,746	61,176	183,903							383,024	138,742	100,369	0	65,471	0
Min:	0	27,146	90,247	0	40,000							189,750	88,000	0	0	0	0
Max:	71,775	129,894	129,894	123,300	351,000							577,400	217,250	400,050	0	130,518	0

Transfer = (change in Primary Sludge Inventory) + (sludge pumped from PSTs to Pri. Dig.) + (Thickened Sludge pumped to Pri. Dig.)

Mix Tank Overflow Potential = (change in Mix Tank level) + gallons from PSTs + secondary sludge (350 gpm) - GBT feed

January 2013 Soluble Sulfides Report

	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	Sludge Processed BFPs	GBTs
1-Jan							0	0
2-Jan							95,585	372,026
3-Jan							97,762	452,404
4-Jan							96,366	464,547
5-Jan							40,952	220,188
6-Jan							28,532	235,237
7-Jan							33,656	269,565
8-Jan							92,360	438,609
9-Jan							104,316	505,226
10-Jan							95,296	439,873
11-Jan							90,222	436,040
12-Jan							37,737	214,016
13-Jan							20,682	262,232
14-Jan							50,488	253,074
15-Jan							55,068	263,664
16-Jan							130,518	438,643
17-Jan							100,533	412,975
18-Jan							85,433	396,470
19-Jan							55,847	466,317
20-Jan							0	0
21-Jan							98,227	494,197
22-Jan							65,460	420,523
23-Jan							51,500	358,072
24-Jan							44,361	339,872
25-Jan							76,946	432,662
26-Jan							32,007	236,733
27-Jan							32,283	207,645
28-Jan							59,884	300,125
29-Jan							92,192	548,235
30-Jan							89,424	427,670
31-Jan							75,964	239,113
Ave:	N/A	N/A	N/A	N/A	N/A	N/A		
Min:	0.000	0.000	0.000	0.000	0.000	0.000		
Max:	0.000	0.000	0.000	0.000	0.000	0.000		

January 2013 Disposal Site Report

Date	Sludge Conestoga (Tons)	Sludge Rolling Hills (Tons)	Sludge Modern (Tons)	Sludge Pioneer Crossing (Tons)	6th St. (Tons)	Grit (Tons)	Tank Cleanings (Tons)	Scum (Tons)	San Swr Soil (Tons)	Exeter Sludge (Gallons)	Exeter % Solids	Valley Forge Sludge (Gallons)	Valley Forge % Solids	Total Cans Hauled Biosolids
Tue 1														
Wed 2				54.49	8.59									3
Thu 3				35.33										2
Fri 4				53.22										3
Sat 5				19.49										1
Sun 6														
Mon 7				54.04										3
Tue 8				53.62										3
Wed 9				55.15										3
Thu 10				52.71										3
Fri 11				35.31										2
Sat 12				17.79										1
Sun 13														
Mon 14				70.27										4
Tue 15				33.75										2
Wed 16				34.17										2
Thu 17				53.72										3
Fri 18				52.26										3
Sat 19				15.93										1
Sun 20														
Mon 21				70.88										4
Tue 22				31.65	5.56									2
Wed 23				33.35										2
Thu 24				35.51	3.75									2
Fri 25				36.25										2
Sat 26				18.79										1
Sun 27														
Mon 28				67.66										4
Tue 29				36.58	5.85		27.20							2
Wed 30				35.33										2
Thu 31				35.22										2
Total:	0.00	0.00	0.00	1092.47	23.75	0.00	27.20	0.00	0.00	0		0		62
Ave:	0.00	0.00	0.00	42.02	5.94	0.00	27.20	0.00	0.00	0		0		
Min:	0.00	0.00	0.00	15.93	3.75	0.00	27.20	0.00	0.00	0		0		
Max:	0.00	0.00	0.00	70.88	8.59	0.00	27.20	0.00	0.00	0		0		

January 2013 Supernating Data

	Digester#4	Gallons Supernated	%Solids	lbs supernated	Digester#5	Gallons Supernated	%Solids	lbs supernated	Total Gallons Supernated	Total lbs Supernated
Tue 1									0	0
Wed 2									0	0
Thu 3									0	0
Fri 4									0	0
Sat 5									0	0
Sun 6									0	0
Mon 7									0	0
Tue 8									0	0
Wed 9									0	0
Thu 10									0	0
Fri 11									0	0
Sat 12									0	0
Sun 13									0	0
Moh 14									0	0
Tue 15									0	0
Wed 16									0	0
Thu 17									0	0
Fri 18									0	0
Sat 19									0	0
Sun 20									0	0
Mon 21									0	0
Tue 22									0	0
Wed 23									0	0
Thu 24									0	0
Fri 25									0	0
Sat 26									0	0
Sun 27									0	0
Mon 28									0	0
Tue 29									0	0
Wed 30									0	0
Thu 31									0	0
TOTAL		0		0		0		0	0	0
AVG.										

January 2013 Laboratory Results

	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	% Solids GBT	% Solids GBT Filtrate	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	P1-4 %TS	P1-4 %VS	Dig 4 %TS	Dig 4 %VS	Dig 5 %TS	Dig 5 %VS
1-Jan																	
2-Jan	2.10%	17.38%	0.11%	5.47%								3.19%	86.78%	2.00%	66.13%	3.12%	67.28%
3-Jan	2.01%	17.09%	0.18%	5.65%													
4-Jan	2.59%	16.20%	0.14%	5.05%										1.83%		1.94%	
5-Jan	2.53%	17.78%	0.11%	3.34%													
6-Jan	2.58%	18.19%	0.12%	4.79%													
7-Jan	2.74%	21.19%	0.10%	4.62%										2.11%		3.24%	
8-Jan	1.84%	16.78%	0.12%	5.51%													
9-Jan	1.96%	17.70%	0.13%	4.01%								2.93%	83.33%	1.88%	66.32%	2.14%	64.76%
10-Jan	3.69%	24.18%	0.15%	3.97%													
11-Jan	2.17%	16.65%	0.13%	6.46%										2.40%		1.89%	
12-Jan	2.36%	17.07%	0.19%	3.58%													
13-Jan	2.44%	17.36%	0.17%	5.18%													
14-Jan	2.65%	18.16%	0.15%	4.66%										3.01%		2.55%	
15-Jan	2.42%	19.09%	0.17%	4.87%													
16-Jan	1.93%	16.18%	0.14%	4.93%								3.13%	85.81%	2.76%	64.23%	3.10%	67.39%
17-Jan	2.31%	17.92%	0.14%	5.01%													
18-Jan	2.88%	23.45%	0.12%	5.29%										2.06%		3.18%	
19-Jan	2.78%	17.21%	0.14%	3.92%													
20-Jan	2.25%	17.17%	0.15%	4.82%													
21-Jan	2.30%	18.10%	0.14%	3.46%													
22-Jan	1.72%	17.66%	0.16%	4.80%													
23-Jan	2.81%	18.20%	0.17%	4.86%								1.95%	83.64%	2.47%	69.44%	2.08%	68.75%
24-Jan	2.78%	29.72%	0.15%	4.92%													
25-Jan	2.64%	16.50%	0.14%	4.06%										2.53%		2.54%	
26-Jan	2.53%	17.04%	0.14%	3.87%													
27-Jan	2.21%	18.27%	0.13%	6.54%													
28-Jan	2.89%	18.25%	0.13%	6.58%										2.78%		2.15%	
29-Jan	1.93%	16.27%	0.15%	5.84%													
30-Jan	1.91%	16.00%	0.16%	4.40%								2.86%	85.36%	2.57%	68.57%	2.49%	68.05%
31-Jan	2.36%	16.93%	0.15%	3.92%													
Avg	2.41%	18.32%	0.14%	4.81%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.81%	84.98%	2.37%	66.94%	2.54%	67.25%
Min	1.72%	16.00%	0.10%	3.34%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	3.19%	86.78%	3.01%	69.44%	3.24%	68.75%
Max	3.69%	29.72%	0.19%	6.58%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	1.95%	83.33%	1.83%	64.23%	1.89%	64.76%

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

RECEIVED
EPA REGION III
APR 25 2013
WATER PROTECTION DIVISION
(3WP00)

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PERMIT NUMBER	DISCHARGE NUMBER
PA0026549	001-A

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2013	TO	03/31/2013

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	57	******		0	DAILY	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.4	******	******		0	7/DAILY	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	6.3	******	7.4		0	DAILY	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1202	1635		******	9	11		0	DAILY	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	2030	******		******	15.6	******		0	DAILY	COMP24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	15.54	22.48		******	******	******	******	0	CONTIN UOUS	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.02	******		0	2/SHIFT	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	(610)655-6258		4/19/2013
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ATTACHED IS AN SSO REPORT FOR 4/9/2013 SUBMITTED BY RUSSELL L. STOUDT, SYSTEMS SUPERINTENDENT.

SSO / SSS Report to PADEP

Please check all boxes that apply:	☐ Wet Weather ☒ Dry Weather	☒ SSO - Sanitary Sewer Overflow ☐ SSS - Sanitary Sewer Surcharge

1. Date, Name, Phone # of person completing this report	Date: 4/9/2013 Name: Russell Stoudt Phone No#. 610-655-6008
2. Your organization Name & Address:	Municipality: City of Reading Address: 815 Washington St Reading, PA 19605 County: Berks
Sewer system owner and permit number:	City of Reading #PA0026549
3. Date found and specific location of incident. Including Municipality/County (if different from #2) ?	Date: 4/8/2013 Municipality: City of Reading Location (Street & #): 200 block of River rd County:
4. How was incident discovered? By whom ?	Discovered By: Police
5. Start and end time of incident (actual or estimate?)	6:10PM to 6:30PM
6. Date, time and name of person who called PADEP originally to notify of incident?	Date: 4/9/2013 Time: 8:05AM Name: Russell Stoudt
7. Description and actual or estimated volume.	A sanitary trunkline was clogged between the manhole and the River Rd interceptor. The line was clogged with grease. We were notified by police seeing the seepage coming out of the manhole. Our staff was dispatched to the scene and opened the clog. The staff cleaned up the site with the vac (appox. 50 gals). There
8. Where, precisely, did the leak go ? (land, roadway, basement, swale, storm sewer, creek, etc) Please include creek name or street location.	On the roadway and into a catch basin. Did not appear to leave the basin. No signs of overflow at river storm outfall at Schuylkill River.
9. What caused the incident? How was it stopped ?	There was a grease buildup in the trunkline. The city staff jetted and cleaned the trunkline and opened the clog..
10. Describe extent of contamination and how it was cleaned up	Overflow was on roadway, gutter, and minimal in catch basin. Stayed contained in basin. Was vactored out, while hosing down roadway.
11. What actions will be taken to prevent a re-occurrence ? When ?	This was the second clog at this location in the past year. We will increase the cleaning of this line to a quarterly event.
12. Other comments ?	Overflow did not make it to the river
13.Downstream notifications made: (All downstream users such as public water supplies must be notified)	None

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Mar	7,671	39,269	46,940	-10,849		36,091	2,575	1,594	8,475	14,794	23,269	-5,224	18,045	1,103	266	531	1,598	2,129	265	2,946	2,394	1,814
2-Mar	6,605	29,213	35,819	-6,956		28,863	1,924	1,684	6,495	10,758	17,253	-1,859	15,394	1,203	343	641	1,744	2,385	898	4,422	3,283	1,648
3-Mar	6,174	51,608	57,782	-14,455	836	43,326	2,487	1,243	6,366	47,638	54,004	-7,891	46,113	1,119	915	711	2,005	2,715	350	3,790	3,066	1,865
4-Mar	6,956	44,369	51,324	-9,462		41,863	2,360	1,298	9,207	25,911	35,119	1,739	36,857	1,298	1,003	613	1,846	2,459	1,489	6,897	3,947	1,876
5-Mar	6,508	47,413	53,921	-2,172		51,749	2,596	1,730	6,635	31,861	38,497	-467	38,029	989	1,130	600	1,688	2,288	817	8,493	3,105	2,027
6-Mar	7,374	44,803	52,177	-7,191		44,986	3,020	1,888	9,064	33,936	43,000	22,786	65,786	1,384	784	627	1,821	2,448	1,905	3,986	4,353	2,442
7-Mar	6,055	45,536	51,591	-10,959	520	40,632	2,325	1,163	7,956	40,436	48,393	-4,045	44,347	1,395	1,028	605	1,776	2,381	1,577	5,529	3,959	2,302
8-Mar	5,559	30,462	36,021	-1,543		34,478	2,249	1,302	4,343	7,126	11,469	7,608	19,078	947	1,090	729	2,031	2,760	297	4,430	3,057	2,568
9-Mar	2,832	26,043	28,875	11,765		40,640	2,420	1,210	1,888	5,519	7,407	22,469	29,876	770	966	581	1,914	2,495	471	4,423	2,966	1,936
10-Mar	9,005	45,436	54,441	-7,252	825	47,189	2,384	1,788	10,038	27,451	37,489	12,929	50,418	1,192	1,193	729	1,817	2,547	1,142	5,018	3,688	2,098
11-Mar	5,009	30,962	35,971	173		36,144	2,820	1,410	5,328	20,829	26,157	21,180	47,337	1,154	2,101	503	1,604	2,108	1,635	8,056	3,743	2,423
12-Mar	6,130	38,120	44,250	2,245		46,496	5,624	3,562	11,851	24,925	36,776	16,094	52,870	3,937	1,841	760	2,082	2,842	1,957	7,719	4,800	4,012
13-Mar	6,497	38,791	45,288	10,490		55,778	2,636	1,465	7,479	26,076	33,555	32,262	65,818	1,465	2,191	612	1,649	2,260	1,212	9,915	3,472	1,552
14-Mar	7,824	41,613	49,437	-5,712	1,170	43,725	2,411	2,545	7,204	27,346	34,550	4,546	39,095	1,339	1,035	732	1,803	2,535	937	4,693	3,472	1,875
15-Mar	7,341	40,273	47,614	27,311		74,925	2,589	1,294	11,147	12,363	23,510	44,406	67,916	1,165	803	783	1,939	2,722	118	3,090	2,840	1,825
16-Mar	8,400	61,201	69,602	-20,764		48,837	1,724	796	10,881	33,510	44,391	12,157	56,549	1,193	508	569	1,505	2,074	85	4,806	2,159	1,379
17-Mar	9,192	34,056	43,248	-9,707	1,035	33,541	2,060	515	9,248	40,065	49,313	-15,260	34,053	901	959	716	1,943	2,659	388	3,384	3,047	1,610
18-Mar	6,962	47,374	54,336	-22,585		31,750	2,396	1,409	9,159	36,136	45,295	-17,355	27,940	1,128	1,090	845	2,104	2,949	621	8,662	3,570	2,128
19-Mar	5,381	41,095	46,476	-8,434		38,042	2,920	1,460	6,848	20,041	26,889	15,219	42,108	1,460	1,400	743	1,869	2,612	1,802	9,667	4,414	2,725
20-Mar	5,477	31,368	36,845	-1,964		34,880	2,456	955	9,356	29,077	38,433	-452	37,981	546	1,234	746	1,852	2,598	1,187	6,467	3,785	2,442
21-Mar	6,018	37,894	43,912	-10,969	228	32,943	1,828	784	9,335	26,833	36,168	-17,457	18,712	1,045	427	705	1,956	2,661	555	4,689	3,215	1,985
22-Mar	6,080	22,766	28,846	3,665		32,511	1,265	759	9,944	10,287	20,231	17,402	37,633	1,012	397	762	1,594	2,356	283	1,777	2,639	1,632
23-Mar	7,603	22,935	30,538	-17,244		13,294	1,733	619	9,640	21,893	31,532	6,754	38,287	990	925	726	2,075	2,800	417	2,313	3,217	1,460
24-Mar	7,254	36,412	43,666	-5,260	183	38,406	2,615	374	9,889	27,162	37,050	9,805	46,855	872	544	749	1,890	2,639	139	1,247	2,778	1,768
25-Mar	4,444	42,288	46,731	6,249		52,980	2,373	593	7,110	39,981	47,091	17,586	64,677	1,483	688	675	1,944	2,619	1,248	4,901	3,867	2,150
26-Mar	7,637	47,273	54,910	-16,148		38,762	2,287	807	8,276	38,221	46,497	-1,060	45,437	1,211	2,030	644	1,690	2,334	1,016	4,858	3,350	1,870
27-Mar	6,993	55,144	62,137	-23,744		38,393	2,015	1,007	8,348	28,636	36,985	3,886	40,870	1,133	2,843	699	1,809	2,508	1,083	7,630	3,592	2,091
28-Mar	6,662	39,091	45,754	-8,107	1,878	37,646	2,107	744	9,200	32,018	41,218	-5,842	35,376	1,239	1,759	746	1,740	2,486	968	17,109	3,454	1,909
29-Mar	7,989	34,227	42,216	-4,165		38,051	2,123	825	8,248	26,481	34,729	-6,655	28,074	943	631	817	1,946	2,763	277	2,436	3,039	2,252
30-Mar	10,015	23,592	33,607	8,547		42,154	1,972	464	10,700	29,037	39,736	-1,798	37,938	928	554	683	1,760	2,443	449	3,537	2,892	1,705
31-Mar	9,566	25,687	35,253	764	144	36,017	1,436	718	9,566	17,374	26,940	13,132	40,072	718	419	714	1,681	2,395	861	2,257	3,256	1,556
TOTAL	213,211	1,196,316	1,409,527	-154,433	6,821	1,255,093	73,729	38,005	259,225	813,721	1,072,947	196,594	1,269,540	37,262	33,097	21,296	56,675	77,970	26,450	169,146	104,420	62,926
Week 1	6,763	43,173	49,936	-8,863	678	41,073	2,494	1,405	7,743	29,334	37,076	720	37,796	1,129	781	618	1,782	2,401	1,043	5,152	3,444	1,996
Week 2	6,122	35,918	42,041	1,452	998	43,493	2,884	1,837	6,876	19,896	26,772	16,727	43,499	1,635	1,488	664	1,843	2,507	1,093	6,322	3,600	2,352
Week 3	6,967	41,894	48,862	-6,730	632	42,131	2,094	929	9,425	28,289	37,714	3,037	40,751	1,012	917	730	1,881	2,611	679	5,824	3,290	2,014
Week 4	6,668	37,987	44,654	-8,656	1,030	35,999	2,213	688	8,915	28,314	37,229	6,933	44,162	1,116	1,312	714	1,820	2,535	736	5,691	3,271	1,840
Monthly	6,878	38,591	45,469	-4,982	758	40,487	2,378	1,226	8,362	26,249	34,611	6,342	40,953	1,202	1,068	687	1,828	2,515	853	5,456	3,368	2,030
Min =	2832	22766	28846	-23744	144	13,294	1,265	374	1,888	5,519	7,407	-17,457	15,394	546	266	503	1,505	2,074	85	1,247	2,159	1,379
Max =	10015	61201	69602	27311	1878	74,925	5,624	3,562	11,851	47,638	54,004	44,406	67,916	3,937	2,843	845	2,104	2,949	1,957	17,109	4,800	4,012
								4,170						7,130								3,000
								6,255						10,696								

Print Date: 4/19/2013

	March 2013				City of Reading Wastewater Treatment Plant																				Laboratory Process Control Data							
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent							
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-Mar	315	348	7.5	21.8	430	162	6.9	17.5	406	201	18.4	-94	-45	2.3	312	156	20.7	6.8	12.0	12.1	13.87	300	75	22.0	1.6	6.5	78	28	21.2	300	6.7	6.7	42	16
2-Mar	240	236	7.6	23.3	315	116	7.1	18.8	298	143	19.8	-58	-15	7.5	240	128	27.3	7.0	13.7	14.8	14.42	230	66	23.8	0.4	6.3	68	37	21.2		3.9	6.9	32	15
3-Mar	225	232	7.6	25.9	520	480	7.0	20.2	456	426	21.4	-114	-62	2.8	342	364	24.2	6.9	15.2	14.2	15.19	205	73	24.0	0.3	6.6	64	56	23.1		3.5	7.0	35	33
4-Mar	278	368	6.9	24.5	500	292	7.0	20.8	451	309	21.6	-83	15	13.1	368	324	34.7	7.2	21.8	14.3	13.64	262	94	28.7	0.2	6.7	68	36	25.3	320	3.3	7.4	33	16
5-Mar	255	260	6.9	23.5	500	336	7.0	17.8	448	320	19.0	-18	-4	6.8	430	316	25.8	6.8	17.3	13.9	14.43	250	72	24.6	0.3	6.5	78	51	23.5		4.2	7.0	46	24
6-Mar	288	354	7.1	24.5	470	356	6.9	19.1	431	356	20.2	-59	188	15.8	372	544	36.0	6.9	17.0	13.7	14.50	230	55	28.6	0.9	6.5	70	55	26.5	340	2.6	6.9	32	13
7-Mar	242	318	7.2	24.2	500	444	6.9	19.5	444	417	20.5	-94	-35	13.6	350	382	34.1	6.7	15.5	13.7	13.92	195	84	28.3	6.1	6.5	68	58	26.8		1.9	7.0	31	20
8-Mar	215	168	6.9	28.2	342	80	6.9	22.8	313	100	24.0	-13	66	2.6	300	166	26.6	6.8	17.7	14.3	13.78	225	64	30.1	1.0	6.5	56	28	28.9	380	4.5	6.8	30	15
9-Mar	120	80	7.6	24.6	302	64	7.1	22.2	263	67	22.7	107	205	4.3	370	272	27.0	6.8	18.4	14.0	13.17	210	68	24.9	1.2	6.5	52	21	23.3		2.2	6.9	29	12
10-Mar	305	340	7.4	24.7	480	290	6.9	19.2	438	302	20.5	-58	104	9.2	380	406	29.7	6.9	22.0	14.5	14.89	232	88	18.3	3.6	6.7	88	110	24.1	320	2.9	7.0	44	39
11-Mar	220	234	7.5	22.1	330	222	7.0	17.1	309	224	18.1	1	182	14.0	310	406	32.1	7.0	14.3	14.4	13.98	215	48	24.9	0.2	6.6	48	24	22.1		3.0	7.0	34	19
12-Mar	150	290	7.3	18.6	260	170	6.8	14.2	236	196	15.2	12	86	10.4	248	282	25.6	6.9	14.8	15.5	22.48	145	77	22.7	0.4	6.4	54	52	22.3		3.0	6.8	39	36
13-Mar	205	236	7.2	19.3	360	242	6.8	15.3	325	241	16.2	75	231	8.7	400	472	24.9	7.3	16.6	13.9	16.72	175	90	22.6	11.4	6.9	64	78	17.7	300	2.3	6.9	31	26
14-Mar	265	244	7.6	24.8	420	276	7.0	18.2	384	269	19.7	-44	35	7.3	340	304	27.0	7.2	13.9	14.2	15.42	240	92	23.8	0.3	6.8	46	37	20.5		3.9	7.4	36	24
15-Mar	270	410	7.4	28.8	430	132	7.0	20.7	394	195	22.5	226	367	1.0	620	562	23.5	7.0	15.3	13.4	14.49	252	85	25.8	4.2	6.5	75	66	25.6	300	2.6	6.7	43	22
16-Mar	298	386	7.6	20.2	610	334	7.0	15.0	542	345	16.1	-162	95	0.7	380	440	16.8	6.8	14.3	14.1	15.41	230	66	18.6	0.3	6.4	60	61	16.9		4.3	7.0	31	24
17-Mar	330	332	7.4	25.7	340	400	7.1	19.4	338	385	20.8	-76	-119	3.0	262	266	23.8	6.9	16.6	14.2	15.35	190	53	21.0	0.4	6.7	48	37	18.8		3.4	7.0	29	22
18-Mar	225	296	7.3	27.3	430	328	6.9	19.1	385	321	20.9	-160	-123	4.4	225	198	25.3	7.0	18.4	14.0	16.92	190	53	25.4	5.2	6.5	47	28	23.5	300	3.9	6.8	30	26
19-Mar	165	210	7.5	22.8	365	178	7.0	16.6	320	185	18.0	-58	105	12.4	262	290	30.4	6.7	20.6	13.2	17.41	190	70	25.9	3.0	6.5	52	37	23.8		2.7	6.6	30	20
20-Mar	185	316	7.6	25.2	315	292	7.1	18.6	285	298	20.1	-15	-4	9.2	270	294	29.3	6.2	18.1	13.6	15.49	135	59	27.7	1.5	5.7	54	91	25.6	260	4.2	6.2	38	23
21-Mar	205	318	7.3	24.0	370	262	7.0	19.1	333	274	20.2	-83	-132	4.2	250	142	24.4	6.6	17.7	13.6	15.80	115	60	22.8	0.2	6.2	43	19	22.9		3.0	6.5	36	20
22-Mar	225	368	7.8	28.2	270	122	7.0	18.9	259	182	21.2	33	156	2.5	292	338	23.7	6.6	16.6	13.8	13.35	190	67	23.0	7.4	6.3	66	42	20.3	300	2.3	6.6	36	22
23-Mar	265	336	7.2	25.3	220	210	6.7	19.9	230	237	21.1	-130	51	3.1	100	288	24.2	6.4	16.7	14.1	15.94	175	65	23.5	0.4	6.2	72	52	21.0		3.7	6.5	31	24
24-Mar	245	334	7.1	25.3	370	276	6.8	19.2	341	289	20.6	-41	77	1.1	300	366	21.7	6.4	18.6	14.0	15.35	140	69	22.3	0.5	6.3	40	59	22.4		3.9	6.7	25	19
25-Mar	160	256	7.4	24.3	385	364	6.9	17.7	340	342	19.0	45	128	9.1	385	470	28.1	6.8	18.8	14.3	16.50	100	98	23.5	0.3	6.5	47	86	22.2	300	2.9	6.6	28	28
26-Mar	275	298	7.0	23.2	470	380	6.5	16.8	428	362	18.2	-126	-8	7.9	302	354	26.1	6.4	12.5	13.8	15.39	220	66	25.5	3.1	6.5	52	23	22.1		3.0	6.6	29	34
27-Mar	258	308	7.5	25.8	570	296	7.0	18.7	502	299	20.3	-192	31	8.7	310	330	29.0	6.9	13.4	14.6	14.85	220	67	26.9	7.8	6.5	52	37	24.9	300	2.4	6.7	31	24
28-Mar	252	348	7.1	28.2	420	344	7.6	18.7	383	345	20.8	-68	-49	8.1	315	296	28.9	6.8	12.9	14.1	14.33	220	74	27.7	1.7	6.5	58	57	26.3		3.2	6.8	28	21
29-Mar	308	318	7.4	31.5	380	294	6.8	21.6	364	299	23.8	-36	-57	2.4	328	242	26.2	6.8	14.3	14.5	13.91	220	64	27.2	0.7	6.5	53	29	26.7	300	4.3	6.8	29	22
30-Mar	380	406	7.6	25.9	260	320	7.0	19.4	287	339	20.9	73	-15	3.8	360	324	24.7	6.8	11.8	15.0	14.04	200	61	25.0	0.6	6.4	52	52	23.7		1.1	6.8	35	19
31-Mar	370	370	7.6	27.6	275	186	7.1	18.0	296	226	20.1	6	110	7.2	302	336	27.3	7.0	16.0	14.5	14.30	185	47	22.4	0.5	6.6	74	69	21.4		2.1	7.0	22	20
TOTAL	7739	9318	227.8	769.3	12209	8248	215.6	580.1	11229	8495	621.9	-1204	1563	207.2	10025	10058	829.1	###	###	436.3	469.24	6286	2170	761.5	65.7	###	1847	1516	714.6	4020.0	100.8	211.4	1025	698
Week 1	263	302	7.3	24.0	462	312	7.0	19.1	419	310	20.1	-74	6	8.8	345	316	29.0	6.9	16.1	13.8	14.28	239	74	25.7	1.4	6.5	71	46	23.9	320.0	3.7	7.0	36	20
Week 2	211	227	7.4	23.2	356	192	6.9	18.4	324	200	19.5	11	130	8.1	335	330	27.6	7.0	16.8	14.4	15.78	206	75	23.9	2.6	6.6	58	50	22.7	333.3	3.1	7.0	35	24
Week 3	240	324	7.4	24.9	409	275	7.0	18.4	371	286	19.8	-47	27	5.0	324	313	24.8	6.7	17.3	13.7	15.84	186	64	23.9	2.1	6.4	54	48	22.4	286.7	3.5	6.7	34	22
Week 4	240	321	7.3	25.8	386	285	6.9	18.6	355	294	20.2	-68	55	5.8	286	349	26.0	6.6	15.6	14.1	15.10	181	72	24.6	3.0	6.4	55	51	22.7	300.0	3.1	6.6	30	25
Monthly	250	301	7.3	24.8	394	266	7.0	18.7	362	274	20.1	-39	50	6.7	323	324	26.7	6.8	16.2	14.1	15.14	203	70	24.6	2.1	6.5	60	49	23.1	309.2	3.3	6.8	33	23
Min =	120	80	6.9	19	220	64	6.5	14	230	67	15.2	-192	-132	0.7	100	128	16.8	6.2	11.8	12.1	13.17	100	47	18.3	0.2	5.7	40	19	16.9	260.0	1.1	6.2	22	12
Max =	380	410	7.8	32	610	480	7.6	23	542	426	24.0	226	367	15.8	620	562	36.0	7.3	22.0	15.5	22.48	300	98	30.1	11.4	6.9	88	110	28.9	380.0	6.7	7.4	46	39
									%Removal						%Removal																			
									94.97	96.68	22.03				94.36	97.20	41.51																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	chloride	DO	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	DO	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
18.5	280	145	5.4	7.1	40	17	17	14.0	200			6.9	6.9		142.0	1570.0
18.3		145	6.2	7.3	38	18	18	13.8				7.1	7.0		73.0	940.0
20.2		120	6.4	7.4	40	15	16	15.2				8.1	7.1	203.0	222.0	920.0
21.8	240	115	7.7	7.3	40	15	15	16.0	220	3.2	0.550	8.8	7.3		168.0	1155.0
20.9		135	7.1	7.3	42	20	15	17.0				8.1	7.0		157.0	1180.0
23.9	300	150	6.8	7.4	37	17	15	19.2	260			7.6	7.0		115.0	585.0
24.4		155	7.0	7.2	34	16	15	18.8				8.0	7.3	80.0	158.0	850.0
26.7	380	150	7.5	7.0	42	17	20	21.5	320			7.9	6.8		288.0	1170.0
20.3		135	6.0	7.4	46	14	12	16.1				8.2	7.3		236.0	1080.0
20.9	280	125	6.6	7.3	42	13	14	15.6	240			7.8	7.2	157.0	227.0	955.0
16.9		130	6.3	7.2	59	16	15	17.7		4.1	0.615	7.9	7.2		313.0	1200.0
19.5		135	5.8	7.2	40	17	27	17.6				7.3	7.0		254.0	1065.0
15.6	240	140	8.9	7.2	44	14	18	10.8	200			8.5	7.2		263.0	1190.0
17.6		140	7.8	7.5	49	43	18	12.6				7.5	7.2	207.0	183.0	830.0
20.5	280	135	6.9	7.2	44	17	14	14.3	180			8.1	7.2		269.0	1035.0
15.6		140	7.2	7.2	40	10	13	11.0				10.9	7.2		132.0	1250.0
16.5		135	5.5	7.1	35	7	18	11.9				7.5	7.2	257.0	238.0	840.0
20.4	280	125	7.7	7.2	39	12	16	15.1	200	5.4	0.550	7.8	6.9		168.0	1335.0
20.2		205	6.6	6.7	50	14	15	16.1				7.6	7.1		160.0	1105.0
22.7	240	170	8.3	6.2	50	10	14	17.6	300			9.1	6.1		206.0	1080.0
18.3		160	7.5	6.8	25	10	14	17.0				7.9	6.5	46.0	86.0	945.0
17.0	240	145	6.6	6.8	26	11	16	11.9	200			8.2	6.8		173.0	775.0
16.9		120	6.4	6.6	18	11	14	11.8				7.9	6.4		236.0	590.0
19.5		115	7.6	6.8	32	10	13	14.5				7.7	6.6	46.0	137.0	314.0
18.9	300	175	6.2	6.7	21	6	19	14.0	240	3.0	0.540	7.7	6.7		146.0	1040.0
19.4		175	6.3	6.9	43	13	19	13.4				7.4	6.6		305.0	730.0
21.6	280	150	8.1	7.0	36	10	20	16.5	240			7.2	6.9		423.0	1135.0
21.5		155	7.3	6.9	49	12	16	15.6				7.5	7.1	253.0	237.0	2305.0
24.0	320	150	7.0	6.8	37	10	13	18.6	240			7.7	6.9		193.0	745.0
19.1		135	7.5	6.9	41	10	14	13.4				7.5	7.0		105.0	670.0
17.7		130	7.1	7.1	38	8	12	12.1				6.6	7.1	40.0	116.0	625.0
615.3	3660.0	4440.0	215.3	218.6	1217	433	495	470.7	3040.0	15.7	2.255	243.7	215.6	1289.0	6129.0	31209.0
21.1	273.3	137.9	6.7	7.3	39	17	16	16.3	226.7	3.2	0.550	7.8	7.1	141.5	147.9	1028.6
19.6	300.0	136.4	7.0	7.2	46	19	18	16.0	253.3	4.1	0.615	7.9	7.1	182.0	252.0	1070.0
19.2	266.7	152.9	7.1	6.9	40	11	15	14.7	226.7	5.4	0.550	8.4	6.9	151.5	179.9	1084.3
19.3	273.3	147.9	6.9	6.8	32	10	17	14.0	226.7	3.0	0.540	7.7	6.7	149.5	236.7	984.1
19.8	281.5	143.2	6.9	7.1	39	14	16	15.2	233.8	3.9	0.564	7.9	7.0	143.2	197.7	1006.7
15.6	240.0	115.0	5.4	6.2	18	6	12	10.8	180.0	3.0	0.540	6.6	6.1	40.0	73.0	314.0
26.7	380.0	205.0	8.9	7.5	59	43	27	21.5	320.0	5.4	0.615	10.9	7.3	257.0	423.0	2305.0

March 2013

		Flow (MGD)											On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
1-Mar	10.950	1.748	0.606	2.920		13.870	14.700	9.280	6.210	0.225	66.907	44.773						
2-Mar	11.120	1.853	0.693	3.300		14.420	14.420	9.180	5.010	0.564	63.662	34.743						
3-Mar	11.900	2.039	0.750	3.290		15.190	14.910	9.160	6.070	0.494	60.303	39.961						
4-Mar	10.640	1.749	0.616	3.000		13.640	14.150	8.540	5.640	0.716	62.610	41.349						
5-Mar	11.370	1.713	0.648	3.060		14.430	14.820	8.390	5.740	0.863	58.143	39.778						
6-Mar	11.430	1.802	0.643	3.070		14.500	15.090	9.290	5.680	0.817	64.069	39.172						
7-Mar	10.920	1.754	0.618	3.000		13.920	13.940	8.380	5.680	0.780	60.201	40.805						
8-Mar	10.680	1.723	0.602	3.100		13.780	14.190	8.710	5.490	0.454	63.208	39.840						
9-Mar	10.340	1.833	0.526	2.830		13.170	13.190	8.070	5.220	0.491	61.276	39.636						
10-Mar	11.350	1.831	0.676	3.540		14.890	14.290	9.850	5.560	0.630	66.152	37.340						
11-Mar	11.250	1.810	0.699	2.730		13.980	15.370	9.240	5.640	0.805	66.094	40.343						
12-Mar	17.580	3.023	0.811	4.900		22.480	22.480	6.180	2.590	0.869	27.491	11.521	13:45	14:45				
13-Mar	12.920	2.111	0.696	3.800		16.720	17.560	8.410	5.670	0.999	50.299	33.911						
14-Mar	11.880	1.976	0.661	3.540		15.420	16.060	8.390	5.630	0.678	54.410	36.511						
15-Mar	11.230	1.804	0.597	3.260		14.490	15.520	8.850	5.440	0.358	61.077	37.543						
16-Mar	12.030	2.002	0.597	3.380		15.410	15.900	9.210	5.550	0.461	59.766	36.016						
17-Mar	12.010	1.975	0.680	3.340		15.350	15.440	9.400	5.680	0.483	61.238	37.003						
18-Mar	13.210	2.162	0.614	3.710	0.000	16.920	16.900	8.150	5.490	0.778	48.168	32.447						
19-Mar	13.500	2.302	0.614	3.910	13.700	17.410	19.450	10.950	5.510	1.049	62.895	31.648						
20-Mar	11.940	1.833	0.522	3.550	15.660	15.490	16.360	10.370	5.620	0.718	66.946	36.281						
21-Mar	12.280	2.089	0.641	3.520	7.840	15.800	15.660	10.250	5.630	0.595	64.873	35.633						
22-Mar	10.110	1.914	0.555	3.240	11.190	13.350	15.170	10.630	5.680	0.275	79.625	42.547						
23-Mar	12.500	1.881	0.478	3.440	11.030	15.940	14.840	10.810	5.590	0.470	67.817	35.069						
24-Mar	11.800	1.998	0.570	3.550	11.760	15.350	14.930	10.810	5.510	0.476	70.423	35.896						
25-Mar	13.170	2.143	0.627	3.330	11.710	16.500	17.780	10.870	5.520	0.565	65.879	33.455						
26-Mar	12.060	1.960	0.591	3.330	11.450	15.390	16.130	10.840	5.630	0.798	70.435	36.582						
27-Mar	11.600	1.875	0.599	3.250	11.020	14.850	15.100	10.870	5.650	0.806	73.199	38.047						
28-Mar	11.160	1.753	0.542	3.170	10.990	14.330	14.860	11.000	5.730	0.890	76.762	39.986						
29-Mar	10.800	1.811	0.506	3.110	10.380	13.910	14.140	11.030	5.530	0.392	79.295	39.756						
30-Mar	10.880	1.856	0.502	3.160	10.270	14.040	13.910	11.020	5.540	0.633	78.490	39.459						
31-Mar	11.200	1.915	0.548	3.100	10.400	14.300	14.350	11.090	5.680	0.433	77.552	39.720						
	Influent flow metering used due to inconsistency over 25 MGD																	
Total	365.810	60.238	19.029	103.430	147.400	469.240	481.610	297.220	170.810	19.565	1989.265	1146.77						
Week 1	11.190	1.808	0.653	3.091	#DIV/0!	14.281	14.576	8.889	5.719	0.637	62.271	40.08						
Week 2	12.286	2.044	0.667	3.491	#DIV/0!	15.777	16.163	8.407	5.114	0.704	55.561	34.16						
Week 3	12.314	2.024	0.609	3.524	9.300	15.839	16.461	9.597	5.560	0.635	60.709	35.22						
Week 4	11.771	1.932	0.566	3.330	11.307	15.101	15.544	10.833	5.616	0.611	72.020	37.37						
Monthly	11.800	1.943	0.614	3.336	10.529	15.137	15.536	9.588	5.510	0.631	64.170	36.99						
Min =	10.110	1.713	0.478	2.730	0.000	13.170	13.190	6.180	2.590	0.225	27.491	11.52						
Max =	17.580	3.023	0.811	4.900	15.660	22.480	22.480	11.090	6.210	1.049	79.625	44.77						
	Average used for missing totalizer data.																	

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	March 2013			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Mar										7.1	215	5400	7.1	158	5300
2-Mar															
3-Mar	6.6	1268	3220	7.3	471	5080	7.5	215	5000						
4-Mar										7.2	563	2900	7.2	556	2780
5-Mar	6.1	1329	1820	7.2	256	5160	7.2	415	5020						
6-Mar										7.2	220	5360	7.1	207	5300
7-Mar	7.0		4820	7.2		5020	7.1		5120						
8-Mar										7.2		5500	7.1		5260
9-Mar															
10-Mar	7.0	773	4160	7.1	361	5400	7.3	190	4840						
11-Mar										7.1	320	5400	7.2	476	5460
12-Mar	6.9	524	4120	7.2	276	5400	7.2	293	4900						
13-Mar										7.2	549	3040	7.1	490	4980
14-Mar	7.2		4500	7.3		4820	7.3		3000						
15-Mar										na		na	7.1		5120
16-Mar															
17-Mar	6.9	783	4300	7.1	561	5400	7.1	341	5200						
18-Mar										ns	ns	ns	7.1	290	5800
19-Mar	7.0	515	4340	7.1	332	7880	7.3	473	4980						
20-Mar										ns	ns	ns	7.1	610	7860
21-Mar	6.9		4320	7.1		5140	7.3		5000						
22-Mar										ns		ns	7.2		4940
23-Mar															
24-Mar	7.0	295	4740	7.1	510	4700	7.1	228	4960						
25-Mar										ns	ns	ns	7.3	495	2880
26-Mar	7.0	674	4600	6.7	1531	4260	7.1	510	4520						
27-Mar										ns	ns	ns	7.2	478	5600
28-Mar	7.2		5000	6.8		2480	6.3		3560						
29-Mar										ns	ns	ns	7.2		5120
30-Mar															
31-Mar	7.2	378	5300	7.1	464	4320	7.3	326	5420						
Total	89.9	6539	55240	92.4	4762	65060	93.0	2991	61520	42.9	1867	27600	93.0	3760	66400
Week 1	6.6	1,299	3287	7.2	364	5087	7.3	315	5047	7.2	333	4553	7.1	307	4460
Week 2	7.0	649	4260	7.2	319	5207	7.2	242	4247	7.2	435	4647	7.1	483	5233
Week 3	6.9	649	4320	7.1	447	6140	7.2	407	5060				7.1	450	6260
Week 4	7.1	485	4780	6.9	1,021	3813	6.8	369	4347				7.2	487	4473
Monthly	6.9	727	4249	7.1	529	5005	7.2	332	4732	7.2	373	4600	7.2	418	5108
Min =	6.1	295	1820	6.7	256	2480	6.3	190	3000	7.1	215	2900	7.1	158	2780
Max =	7.2	1329	5300	7.3	1531	7880	7.5	510	5420	7.2	563	5500	7.3	610	7860

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	March 2013 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Mar	0.10	0.10	0.02	0.02	0.02	0.02	0.05	
2-Mar	0.01	0.03	0.02	0.01	0.01	0.00	0.01	
3-Mar	0.02	0.03	0.01	0.23	0.02	0.01	0.06	
4-Mar	0.01	0.02	0.03	0.01	0.03	0.02	0.02	
5-Mar	0.02	0.02	0.03	0.01	0.02	0.01	0.02	
6-Mar	0.04	0.01	0.00	0.00	0.01	0.02	0.01	
7-Mar	0.02	0.01	0.02	0.00	0.03	0.02	0.02	
8-Mar	0.01	0.02	0.02	0.00	0.01	0.01	0.01	
9-Mar	0.02	0.01	0.01	0.02	0.01	0.01	0.01	
10-Mar	0.01	0.00	0.01	0.00	0.01	0.02	0.01	
11-Mar	0.02	0.03	0.05	0.01	0.03	0.02	0.03	
12-Mar	0.02	0.01	0.03	0.08	0.01	0.02	0.03	
13-Mar	0.03	0.04	0.01	0.04	0.00	0.02	0.02	
14-Mar	0.03	0.03	0.00	0.02	0.02	0.03	0.02	
15-Mar	0.01	0.02	0.00	0.01	0.01	0.02	0.01	
16-Mar	0.02	0.04	0.01	0.19	0.03	0.08	0.06	
17-Mar	0.03	0.00	0.00	0.01	0.00	0.01	0.01	
18-Mar	0.02	0.02	0.01	0.16	0.01	0.02	0.04	
19-Mar	0.03	0.00	0.01	0.02	0.01	0.01	0.01	
20-Mar	0.02	0.01	0.03	0.00	0.01	0.02	0.02	
21-Mar	0.02	0.03	0.00	0.01	0.03	0.02	0.02	
22-Mar	0.01	0.01	0.16	0.02	0.01	0.01	0.04	
23-Mar	0.01	0.03	0.01	0.00	0.00	0.00	0.01	
24-Mar	0.01	0.02	0.01	0.02	0.00	0.00	0.01	
25-Mar	0.01	0.01	0.00	0.02	0.02	0.02	0.01	
26-Mar	0.02	0.01	0.00	0.00	0.01	0.03	0.01	
27-Mar	0.01	0.00	0.01	0.00	0.00	0.02	0.01	
28-Mar	0.01	0.02	0.00	0.03	0.06	0.02	0.02	
29-Mar	0.00	0.01	0.01	0.02	0.03	0.01	0.01	
30-Mar	0.02	0.02	0.00	0.02	0.02	0.01	0.02	
31-Mar	0.02	0.00	0.04	0.04	0.02	0.01	0.02	
Average	0.02	0.02	0.02	0.03	0.02	0.02	0.02	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.10	0.10	0.16	0.23	0.06	0.08		

CITY OF READING WASTEWATER TREATMENT PLANT

March 2013 Biosolids Report

Solids Processing:

	Total
Sludge Pumped from Primary Settling Tanks (gallons):	3,023,003
Secondary Sludge Pumped to Mix Tank (gallons):	7,117,000
Supernated from Secondary Digesters (gallons):	0

Gravity Belt Thickeners:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	6,076,716	4,125,321	10,712	10,212,749
Thickened Sludge (gallons):	1,098,700	790,100	3,200	1,892,000
Polymer (pounds):	833.61	420.56	0.00	1254.17
Solids (dry tons):	243.98	162.71	0.76	407.45
Polymer dosage (pounds/dry ton):	3.42	2.58	0.00	3.08
% Reduction:	81.92%	80.85%	70.13%	81.47%
GBT Solids in Filtrate (dry tons):	6.85	27.50	0.07	34.43
GBT 1 Hours of Operation:	195.00	147.50	0.00	342.50
GBT 2 Hours of Operation:	206.00	154.50	1.00	361.50
Total GBT Hours of Operation:	401.00	302.00	1.00	704.00
Dry tons/hour:	0.61	0.54	0.76	0.58

Belt Filter Presses:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	891,304	981,450	75,300	1,948,054
Polymer (pounds):	901.20	976.30	60.08	1937.58
Solids (dry tons):	160.11	179.87	18.16	358.14
Polymer dosage (pounds/dry ton):	5.63	5.43	3.31	5.41
% Solids Recovery:	93.21%	97.00%	98.07%	96.09%
Solids in Filtrate (dry tons):	5.67	6.46	0.49	12.61
BFP 1 Hours of Operation:	50.00	61.00	0.00	111.00
BFP 2 Hours of Operation:	34.00	44.00	0.00	78.00
BFP 3 Hours of Operation:	192.00	179.50	8.00	379.50
BFP 4 Hours of Operation:	193.00	202.50	8.00	403.50
Total BFP Hours of Operation:	469.00	487.00	16.00	972.00
Dry tons/hour:	0.34	0.37	1.13	0.37

Total Solids in Filtrate (dry tons):	47.03
% Solids (Method 2540 G):	21.17%
Total Wet Tons Removed:	1735.77
Dry Tons Removed:	367.46
Hours of Operation:	424
Fritz Island Scum Disposed (tons):	0.00
Fritz Island Grit Disposed (tons):	0.00
6th & Canal Grit Disposed (tons):	54.86
Mix Tank Cleaning/Snail Shells Disposed (tons):	0.00
Sanitary Sewer Excavation Soil (tons):	0.00

March 2013 Solids Operations Report

10 PM - 6 AM

Date	BFP % Solids			Belt Filter Press					Total	Dry tons	Filtrate	GBT % Solids		Gravity Belt Thickener				Thickened	Polymer	Total	Dry tons	Filtrate
	Feed	Cake	Filtrate	Feed	Polymer	Solids	Poly Dosage	% Solids	BFP	per	Solids	Thickened	Filtrate	Feed	Thicknd	%	Polymer	Solids	Dosage	GBT	per	Solids
	(I-3750-85)			(gal)	(lbs)	(dry tons)	(lbs/dry ton)	Recovery	Hours	hour	(dry tons)	(I-3750-85)		(gal)	(gal)	Reduc.	(lbs)	(dry tons)	(lbs/dry ton)	Hours	hour	(dry tons)
Fri 1	2.59%	19.72%	0.15%	31,610	30.04	3.41	8.80	94.93%	17.00	0.20	0.20	6.38%	0.15%	248,954	37,700	84.86%	30.04	10.03	3.00	16.00	0.63	0.235814
Sat 2	3.39%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 3	3.46%	20.12%	0.21%	28,515	30.04	4.11	7.30	94.92%	14.00	0.29	0.25	5.60%	0.21%	205,856	48,500	76.44%	37.55	11.33	3.32	14.00	0.81	0.424715
Mon 4	4.15%	20.00%	0.18%	8,424	7.51	1.46	5.15	96.53%	6.00	0.24	0.06	4.86%	0.18%	228,119	50,000	78.08%	37.55	10.13	3.71	16.00	0.63	0.3753
Tue 5	4.29%	21.47%	0.18%	39,904	37.55	7.14	5.26	96.61%	14.00	0.51	0.30	7.11%	0.18%	235,961	43,200	81.69%	37.55	12.81	2.93	16.00	0.80	0.324259
Wed 6	3.29%	20.68%	0.08%	48,445	45.06	8.65	6.78	97.95%	15.00	0.44	0.16	4.48%	0.08%	231,065	29,700	87.15%	30.04	5.55	5.41	16.00	0.35	0.099079
Thu 7	3.47%	23.26%	0.13%	49,049	52.57	7.10	7.41	96.79%	24.00	0.30	0.27	5.70%	0.13%	233,934	43,600	81.36%	37.55	10.36	3.62	16.00	0.65	0.236356
Fri 8	2.94%	22.63%	0.15%	42,927	45.06	5.26	8.56	95.53%	24.00	0.22	0.27	5.91%	0.15%	246,490	39,400	84.02%	37.55	9.71	3.87	16.00	0.81	0.246447
Sat 9	4.82%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 10	2.72%	21.00%	0.13%	31,762	22.53	3.60	6.25	95.81%	16.00	0.23	0.17	5.42%	0.13%	203,319	46,000	77.38%	37.55	10.40	3.61	16.00	0.65	0.249366
Mon 11	3.98%	19.92%	0.14%	40,451	37.55	6.71	5.59	97.17%	17.00	0.39	0.24	5.84%	0.14%	230,476	48,700	78.87%	30.04	11.66	2.53	16.00	0.74	0.284311
Tue 12	3.83%	20.29%	0.16%	63,994	60.08	10.22	5.88	96.58%	32.00	0.32	0.43	5.58%	0.16%	239,265	41,600	82.61%	37.55	9.68	3.88	16.00	0.60	0.277555
Wed 13	4.15%	22.14%	0.17%	34,692	30.04	6.00	5.00	96.65%	32.00	0.19	0.25	5.88%	0.17%	246,730	44,800	81.84%	22.53	10.98	2.05	16.00	0.89	0.317587
Thu 14	4.92%	21.70%	0.14%	33,900	30.04	6.96	4.32	97.79%	32.00	0.22	0.20	4.44%	0.14%	228,021	37,200	83.69%	22.53	6.89	3.27	16.00	0.43	0.217174
Fri 15	4.81%	22.74%	0.20%	38,392	30.04	7.30	4.12	96.69%	31.00	0.24	0.30	6.14%	0.20%	259,571	42,400	83.67%	30.04	10.86	2.77	16.00	0.88	0.353616
Sat 16	6.08%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 17	5.70%	20.78%	0.16%	28,540	30.04	6.78	4.43	97.95%	16.00	0.42	0.19	4.80%	0.18%	222,103	46,000	79.29%	30.04	9.21	3.26	16.00	0.58	0.306912
Mon 18	5.45%	20.92%	0.14%	33,783	30.04	7.68	3.91	98.09%	17.00	0.45	0.20	5.77%	0.14%	252,760	44,100	82.55%	37.55	10.61	3.54	16.00	0.66	0.257456
Tue 19	5.84%	22.42%	0.16%	33,593	37.55	8.18	4.59	97.96%	10.00	0.82	0.22	5.66%	0.16%	212,366	40,400	80.98%	37.55	9.54	3.94	10.00	0.95	0.269549
Wed 20	5.63%	20.88%	0.14%	48,435	52.57	11.37	4.62	98.17%	16.00	0.71	0.28	6.49%	0.14%	249,472	43,200	82.68%	37.55	11.69	3.21	11.00	1.06	0.252202
Thu 21	5.24%	23.21%	0.17%	35,975	37.55	7.86	4.78	97.47%	16.00	0.49	0.26	4.52%	0.17%	229,761	39,100	82.98%	30.04	7.37	4.08	16.00	0.46	0.27718
Fri 22	4.99%	21.44%	0.16%	24,300	22.53	5.06	4.46	97.52%	10.00	0.51	0.16	5.66%	0.16%	200,359	38,100	80.98%	22.53	8.99	2.51	16.00	0.56	0.254203
Sat 23	6.00%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 24	6.24%	21.12%	0.09%	29,180	30.04	7.59	3.96	98.98%	16.00	0.47	0.11	4.99%	0.09%	185,615	45,500	75.49%	30.04	9.47	3.17	16.00	0.59	0.170762
Mon 25	4.74%	21.78%	0.17%	3,400	7.51	0.67	11.17	97.17%	16.00	0.04	0.02	7.89%	0.17%	228,181	27,500	87.84%	22.53	9.05	2.49	16.00	0.57	0.194948
Tue 26	5.81%	23.10%	0.19%	25,501	30.04	6.18	4.86	97.53%	14.00	0.44	0.20	5.51%	0.19%	233,901	43,600	81.36%	30.04	10.02	3.00	16.00	0.63	0.345443
Wed 27	5.14%	21.35%	0.19%	33,040	37.55	7.08	5.30	97.17%	16.00	0.44	0.26	5.78%	0.19%	272,569	43,299	84.11%	30.04	10.44	2.88	16.00	0.65	0.343058
Thu 28	4.65%	20.92%	0.17%	28,801	37.55	5.58	6.72	97.13%	16.00	0.35	0.20	4.44%	0.17%	257,196	41,600	83.83%	30.04	7.70	3.90	16.00	0.48	0.294902
Fri 29	2.25%	19.15%	0.14%	38,699	45.06	3.63	12.41	94.47%	18.00	0.20	0.23	5.32%	0.14%	280,404	42,001	83.87%	37.55	9.32	4.03	16.00	0.58	0.245202
Sat 30	3.99%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 31	4.11%		0.15%	37,992	45.06	6.51	6.92	0.00%	14.00		0.24			236,268	51,500		30.04			14.00		
Total =				891,304	901.20	160.11	5.63	93.21%	469.00	9.14	5.67			6,076,716	1,096,700	81.92%	833.61	243.98	3.42	401.00	16.04	6.65
Average =	4.47%	21.31%	0.16%	28,752	29.07	5.16	6.10	93.21%	15.13	0.37	0.18	5.61%	0.16%	196,023	35,442	81.90%	26.89	9.76	3.36	12.94	0.64	0.27
Minimum =	2.25%	19.15%	0.08%	0	0.00	0.00	3.91	0.00%	0.00	0.04	0.00	4.44%	0.08%	0	0	75.49%	0.00	5.55	2.05	0.00	0.35	0.10
Maximum =	6.24%	23.26%	0.21%	63,994	60.08	11.37	12.41	98.98%	32.00	0.82	0.43	7.89%	0.21%	272,569	51,500	87.84%	37.55	12.81	5.41	16.00	1.06	0.42

(%feed)(%cake - %filtrate)

March 2013 Solids Operations Report

10 PM - 6 AM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd Sludge	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Fri 1	8	2.30%	18.71%	0.51%	4.72%	2.95%	18.83%	0.14%	4.91%	0	0	16410	15200	2	2	97,800	151,154	37,700	2	2	0.00	1.00	8.00	8.00	8.00	8.00
Sat 2																										
Sun 3	8	3.90%	19.20%	0.16%	4.82%	4.18%	19.73%	0.15%	4.95%	0	0	13714	14801	2	2	84,500	121,356	46,500	3	2	0.00	0.00	7.00	7.00	7.00	7.00
Mon 4	8				4.66%				5.12%	0	0	3425	4999	0	1	95,900	132,219	50,000	3	2	0.00	0.00	3.00	3.00	8.00	8.00
Tue 5	8	4.18%	24.05%	0.18%	4.88%	3.85%	19.27%	0.15%	4.86%	0	0	26204	13700	3	2	96,000	139,961	43,200	3	2	0.00	0.00	7.00	7.00	8.00	8.00
Wed 6	8	3.86%	19.81%	0.15%	4.54%	2.90%	22.16%	0.17%	5.28%	0	0	29345	19100	3	3	96,500	134,565	29,700	2	2	0.00	0.00	7.00	8.00	8.00	8.00
Thu 7	8	2.80%	19.96%	0.16%	4.48%	2.75%	20.76%	0.15%	4.88%	0	0	31149	17900	3	4	98,000	135,934	43,600	3	2	8.00	0.00	8.00	8.00	8.00	8.00
Fri 8	8	4.32%	22.23%	0.16%	4.48%	2.45%	20.08%	0.17%	4.61%	0	0	25128	17799	3	3	102,200	144,290	39,400	3	2	8.00	0.00	8.00	8.00	8.00	8.00
Sat 9																										
Sun 10	8	3.07%	19.76%	0.16%	4.81%	2.75%	20.75%	0.16%	4.65%	0	0	15663	16099	2	1	80,900	122,419	46,000	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Mon 11	8	3.10%	19.87%	0.15%	4.79%	3.47%	20.18%	0.16%	4.94%	0	0	21450	19001	3	2	92,600	137,876	48,700	3	1	1.00	0.00	8.00	8.00	8.00	8.00
Tue 12	8	3.41%	19.69%	0.16%	4.89%	3.18%	20.12%	0.15%	4.76%	0	0	30494	33500	3	5	96,500	142,765	41,600	3	2	8.00	8.00	8.00	8.00	8.00	8.00
Wed 13	8	3.75%	23.23%	0.15%	4.97%	3.90%	21.74%	0.16%	5.18%	0	0	15192	19500	1	3	106,100	140,630	44,800	2	1	8.00	8.00	8.00	8.00	8.00	8.00
Thu 14	8	4.57%	24.48%	0.17%	4.81%	4.71%	20.08%	0.15%	4.91%	0	0	18000	17900	2	2	88,100	139,921	37,200	2	1	8.00	8.00	8.00	8.00	8.00	8.00
Fri 15	8	4.80%	22.30%	0.15%	4.91%	4.70%	22.60%	0.51%	4.60%	0	0	17592	18800	2	2	103,400	156,171	42,400	3	1	7.00	8.00	8.00	8.00	8.00	8.00
Sat 16																										
Sun 17	8	4.80%	19.95%	0.16%	4.83%	4.70%	20.55%	0.15%	4.80%	0	0	13440	15100	0	4	97,100	125,003	46,000	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Mon 18	8	4.98%	19.60%	0.15%	4.86%	5.05%	20.00%	0.14%	4.35%	0	0	15984	17799	0	4	116,901	135,859	44,100	3	2	0.00	1.00	8.00	8.00	8.00	8.00
Tue 19	8	5.00%	24.90%	0.15%	4.89%	5.26%	21.60%	0.14%	4.85%	0	0	16692	16901	1	4	24,800	187,566	40,400	4	1	0.00	0.00	5.00	5.00	2.00	8.00
Wed 20	8	5.05%	21.10%	0.15%	4.86%	5.59%	21.40%	0.16%	4.30%	0	0	29736	18699	3	4	57,400	192,072	43,200	4	1	0.00	0.00	8.00	8.00	3.00	8.00
Thu 21	8	5.05%	19.10%	0.17%	4.68%	5.22%	20.16%	0.15%	4.60%	0	0	18075	17900	1	4	91,900	137,861	39,100	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Fri 22	8	4.65%	18.50%	0.18%	4.64%	4.45%	20.80%	0.15%	4.90%	0	0	11400	12900	1	2	82,701	117,658	38,100	2	1	0.00	0.00	5.00	5.00	8.00	8.00
Sat 23																										
Sun 24	8	5.85%	20.40%	0.18%	4.75%	6.05%	20.50%	0.15%	4.50%	0	0	14580	14600	2	2	73,300	112,315	45,500	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Mon 25	8				4.98%				6.10%	0	0	1800	1600	0	1	46,200	179,981	27,500	2	1	0.00	0.00	8.00	8.00	8.00	8.00
Tue 26	8	5.60%	18.87%	0.16%	4.89%	5.60%	22.35%	0.15%	4.60%	0	0	13000	12501	2	2	84,199	149,702	43,600	3	1	0.00	0.00	7.00	7.00	8.00	8.00
Wed 27	8	5.05%	21.65%	0.16%	5.08%	4.80%	20.55%	0.15%	4.60%	0	0	15840	17200	3	2	118,500	154,069	43,299	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Thu 28	8	4.70%	19.65%	0.15%	4.86%	4.70%	21.15%	0.14%	4.60%	0	0	12000	18801	3	2	109,700	147,496	41,600	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Fri 29	8	4.50%	20.60%	0.14%	4.96%	4.00%	20.70%	0.14%	4.55%	0	0	18900	19799	3	3	107,599	152,805	42,001	3	2	2.00	0.00	8.00	8.00	8.00	8.00
Sat 30																										
Sun 31	8	4.10%	19.50%	0.15%	4.78%	4.00%	20.10%	0.15%	4.95%	0	0	18192	19800	3	3	106,899	129,369	51,500	2	2	0.00	0.00	7.00	7.00	7.00	7.00
	208	4.31%	20.71%	0.17%	4.79%	4.22%	20.67%	0.17%	4.82%	0	0	481405	429899	51	69	2,355,699	3,721,017	1,098,700	71	40	50.00	34.00	192.00	193.00	195.00	206.00
	Min:	2.30%	18.50%	0.14%	4.48%	2.45%	18.83%	0.14%	4.30%																	
	Max:	5.85%	24.90%	0.51%	5.08%	6.05%	22.60%	0.51%	8.10%	0	0	31149	33500	3	5	118,500	192,072	51,500	4	2	8.00	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

March 2013 Solids Operations Report

6 AM - 2 PM

Date	% Solids			Belt Filter Press					Total	Dry tons	Filtrate	GBT % Solids		Gravity Belt Thickener				Thickened	Polymer	Total	Dry tons	Filtrate
	Feed	Cake	Filtrate	Feed	Polymer	Solids	Poly Dosage	% Solids	BFP	per	Solids	Thickened	Filtrate	Feed	Thicknd	%	Polymer	Solids	Dosage	GBT	per	Solids
	(I-3750-85)			(gal)	(lbs)	(dry tons)	(lbs/dry ton)	Recovery	Hours	hour	(dry tons)	(I-3750-85)		(gal)	(gal)	Reduc.	(lbs)	(dry tons)	(lbs/dry ton)	Hours	hour	(dry tons)
Fri 1	2.59%	19.72%	0.15%	17,378	7.51	1.88	4.00	94.93%	16.00	0.12	0.11	6.38%	0.15%	157,921	13,600	91.39%	15.02	3.62	4.15	12.00	0.30	0.99
Sat 2	3.39%	19.99%	0.16%	34,590	30.04	4.89	6.14	96.05%	17.50	0.28	0.23	4.55%	0.18%	181,180	74,000	59.16%	15.02	14.04	1.07	13.00	1.08	1.21
Sun 3	3.46%		0.21%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 4	4.15%	20.00%	0.18%	45,154	52.57	7.81	6.73	96.53%	18.00	0.43	0.34	4.86%	0.18%	133,976	20,100	85.00%	7.51	4.07	1.84	8.00	0.51	1.01
Tue 5	4.29%	21.47%	0.18%	39,501	45.06	7.07	6.38	96.61%	16.00	0.44	0.30	7.11%	0.18%	171,090	18,400	89.25%	22.53	5.46	4.13	10.00	0.55	1.28
Wed 6	3.29%	20.68%	0.08%	47,292	45.06	6.49	6.94	97.95%	16.00	0.41	0.16	4.48%	0.08%	159,347	18,700	88.26%	7.51	3.49	2.15	10.00	0.35	0.53
Thu 7	3.47%	23.26%	0.13%	47,307	45.06	6.85	6.58	96.79%	24.00	0.29	0.26	5.70%	0.13%	134,223	23,700	82.34%	7.51	5.63	1.33	12.00	0.47	0.73
Fri 8	2.94%	22.63%	0.15%	44,305	37.55	5.43	6.91	95.53%	24.00	0.23	0.28	5.91%	0.15%	184,089	27,900	84.84%	15.02	6.88	2.18	14.00	0.49	1.15
Sat 9	4.82%	19.99%	0.18%	34,575	30.04	6.95	4.32	97.14%	22.00	0.32	0.26	3.95%	0.18%	177,384	65,500	63.07%	15.02	10.79	1.39	15.00	0.72	1.33
Sun 10	2.72%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 11	3.96%	19.92%	0.14%	53,890	52.57	8.94	5.88	97.17%	32.00	0.28	0.31	5.84%	0.14%	174,183	22,800	86.91%	22.53	5.55	4.06	13.00	0.43	1.02
Tue 12	3.83%	20.29%	0.16%	57,332	37.55	9.16	4.10	96.58%	32.00	0.29	0.38	5.56%	0.16%	187,515	23,300	87.57%	22.53	5.42	4.16	13.00	0.42	1.25
Wed 13	4.15%	22.14%	0.17%	43,226	52.57	7.48	7.03	96.65%	32.00	0.23	0.31	5.88%	0.17%	170,368	24,600	85.56%	22.53	6.03	3.74	12.00	0.50	1.21
Thu 14	4.92%	21.70%	0.14%	42,100	45.06	8.64	5.22	97.79%	28.00	0.31	0.25	4.44%	0.14%	118,984	30,700	74.20%	15.02	5.88	2.64	11.00	0.52	0.69
Fri 15	4.81%	22.74%	0.20%	37,900	30.04	7.60	3.95	96.69%	23.00	0.33	0.32	6.14%	0.20%	171,154	19,600	88.55%	15.02	5.02	2.99	12.00	0.42	1.43
Sat 16	6.08%	20.90%	0.15%	17,400	15.02	4.41	3.40	98.24%	9.00	0.49	0.11	4.05%	0.15%	170,154	78,300	53.98%	22.53	13.22	1.70	12.00	1.10	1.06
Sun 17	5.70%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 18	5.45%	20.92%	0.14%	28,400	30.04	6.45	4.65	98.09%	17.00	0.38	0.17	5.77%	0.14%	187,596	22,700	87.90%	15.02	5.46	2.75	13.00	0.42	1.10
Tue 19	5.84%	22.42%	0.16%	44,100	52.57	10.74	4.89	97.96%	8.00	1.34	0.29	5.68%	0.16%	126,902	12,400	90.23%	7.51	2.93	2.57	4.00	0.73	0.85
Wed 20	5.63%	20.88%	0.14%	40,100	60.08	9.41	6.38	98.17%	14.00	0.67	0.23	6.49%	0.14%	75,626	8,900	88.23%	7.51	2.41	3.12	3.00	0.80	0.44
Thu 21	5.24%	23.21%	0.17%	29,601	45.06	6.47	6.97	97.47%	8.00	0.81	0.21	4.52%	0.17%	103,367	17,500	83.07%	15.02	3.30	4.55	6.00	0.55	0.73
Fri 22	4.99%	21.44%	0.16%	28,599	30.04	5.95	5.05	97.52%	7.00	0.85	0.19	5.66%	0.16%	111,124	15,200	86.32%	7.51	3.59	2.09	8.00	0.45	0.74
Sat 23	6.00%	22.46%	0.19%	30,201	22.53	7.56	2.98	97.66%	16.00	0.47	0.24	4.14%	0.19%	175,996	72,100	59.03%	30.04	12.45	2.41	16.00	0.78	1.39
Sun 24	6.24%		0.09%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 25	4.74%	21.78%	0.17%	31,999	37.55	6.32	5.94	97.17%	16.00	0.40	0.23	7.89%	0.17%	42,904	3,600	91.61%	7.51	1.18	6.34	16.00	0.07	0.30
Tue 26	5.81%	23.10%	0.19%	37,199	30.04	9.01	3.33	97.53%	19.50	0.46	0.29	5.51%	0.19%	183,571	17,900	90.25%	22.53	4.11	5.48	14.00	0.29	1.45
Wed 27	5.14%	21.35%	0.19%	35,200	37.55	7.54	4.98	97.17%	16.00	0.47	0.28	5.78%	0.19%	196,943	22,500	88.58%	22.53	5.42	4.15	12.00	0.45	1.56
Thu 28	4.65%	20.92%	0.17%	33,700	22.53	6.53	3.45	97.13%	16.00	0.41	0.24	4.44%	0.17%	215,572	30,600	85.81%	15.02	5.67	2.65	13.00	0.44	1.53
Fri 29	2.25%	19.15%	0.14%	42,700	52.57	4.01	13.12	94.47%	24.00	0.17	0.25	5.32%	0.14%	192,045	26,099	86.41%	15.02	5.79	2.59	14.00	0.41	1.12
Sat 30	3.99%	20.10%	0.15%	37,701	30.04	6.27	4.79	96.96%	16.00	0.39	0.24	4.68%	0.15%	222,107	79,401	64.25%	30.04	15.50	1.94	16.00	0.97	1.39
Sun 31	4.11%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				981,450	976.30	179.87	5.43	97.00%	487.00	11.26	6.46			4,125,321	790,100	80.85%	420.56	162.71	2.58	302.00	14.22	27.50
Average =	4.47%	21.28%	0.16%	31,660	31.49	5.80	5.54	97.00%	15.71	0.43	0.21	5.41%	0.16%	133,075	25,487	81.61%	13.57	6.26	3.01	9.74	0.55	1.06
Minimum =	2.25%	19.15%	0.08%	0	0.00	0.00	2.98	94.47%	0.00	0.12	0.00	3.95%	0.08%	0	0	53.98%	0.00	1.18	1.07	0.00	0.07	0.30
Maximum =	6.24%	23.26%	0.21%	57,332	60.08	10.74	13.12	98.24%	32.00	1.34	0.38	7.89%	0.20%	222,107	79,401	91.61%	30.04	15.50	6.34	16.00	1.10	1.56

$$\% \text{ Solids Recovery} = \frac{(\%\text{cake})(\%\text{feed} - \%\text{filtrate})}{(\%\text{feed})(\%\text{cake} - \%\text{filtrate})}$$

March 2013 Solids Operations Report

6 AM - 2 PM

Date	Hours of Operation	Mix Tank Level	% Solids								BFP Sludge Processed				BFP Polymer			Thicknd Sludge	GBT Polymer		Hours of Operation					
			1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Fri 1	8	7.93	3.20%	19.28%	0.15%	6.45%					0	0	8,879	8,499	1	0	59,600	98,321	13,600	2	0	0.00	0.00	8.00	8.00	6.00	6.00
Sat 2	8	8.89	3.25%	17.99%	0.14%	4.71%	3.25%	19.65%	0.12%	5.40%	0	0	17,790	16,800	2	2	77,500	103,680	74,000	1	1	0.00	1.50	8.00	8.00	6.50	6.50
Sun 3																											
Mon 4	8	8.11	4.25%	19.54%	0.16%	5.46%	4.25%	19.23%	0.14%		0	0	27,053	18,101	4	3	56,100	77,876	20,100	1	0	0.00	0.00	9.00	9.00	4.00	4.00
Tue 5	8	8.63	4.30%	20.15%	0.16%	6.45%	4.00%	20.54%	0.14%	5.93%	0	0	22,901	16,600	2	4	74,900	96,190	18,400	2	1	0.00	0.00	8.00	8.00	5.00	5.00
Wed 6	8	8.00	4.10%	21.61%	0.16%	6.51%	4.50%	22.05%	0.15%	5.14%	0	0	28,792	18,500	3	3	64,300	95,047	18,700	1	0	0.00	0.00	8.00	8.00	5.00	5.00
Thu 7	8	9.35	4.50%	19.93%	0.16%	3.89%	4.00%	20.09%	0.15%		0	0	30,507	16,800	3	3	56,000	78,223	23,700	1	0	8.00	0.00	8.00	8.00	6.00	6.00
Fri 8	8	8.50	4.50%	21.27%	5.99%					4.72%	0	0	22,905	21,400	3	2	102,699	81,390	27,900	1	1	8.00	0.00	8.00	8.00	7.00	7.00
Sat 9	8	8.54	5.25%	19.64%	0.16%	4.20%	3.95%	18.69%	0.15%	3.73%	0	0	19,074	15,501	1	3	81,001	96,383	65,500	1	1	8.00	0.00	8.00	8.00	7.50	7.50
Sun 10																											
Mon 11	8	7.88	4.80%	19.52%	0.16%	6.77%	4.00%	19.98%	0.15%	6.85%	0	0	31,390	22,500	3	4	69,800	104,383	22,800	2	1	8.00	8.00	8.00	8.00	6.50	6.50
Tue 12	8	8.30	3.75%	19.41%	0.15%	5.68%	4.20%	19.57%	0.51%	5.83%	0	0	23,032	34,300	2	3	73,100	114,415	23,300	2	1	8.00	8.00	6.00	8.00	6.50	6.50
Wed 13	8	8.53	4.50%	20.04%	0.15%	6.25%	3.85%	22.26%	0.15%	5.58%	0	0	17,626	25,600	3	4	71,100	99,268	24,600	2	1	8.00	8.00	8.00	6.00	6.00	6.00
Thu 14	8	7.25	4.25%	23.00%	0.14%	4.80%	4.20%	22.15%	0.14%	5.00%	0	0	20,000	22,100	2	4	45,000	73,984	30,700	1	1	7.00	7.00	7.00	7.00	5.50	5.50
Fri 15	8	8.05	4.25%	22.00%	0.14%	6.85%	5.40%	22.20%	0.15%		0	0	16,000	21,900	1	3	71,100	100,054	19,600	1	1	0.00	7.00	8.00	8.00	6.00	6.00
Sat 16	8	8.45	6.00%	20.15%	5.15%					4.90%	0	0	8,000	9,400	0	2	78,699	91,255	78,300	2	1	0.00	0.00	4.50	4.50	6.00	6.00
Sun 17																											
Mon 18	8	8.24	5.25%	21.10%	0.14%	6.85%	4.75%	20.80%	0.15%	6.65%	0	0	13,500	14,900	0	4	87,500	100,096	22,700	1	1	0.00	1.00	8.00	8.00	6.50	6.50
Tue 19	8	7.04	7.05%	18.40%	0.16%	7.20%	5.15%	21.15%	0.15%	4.75%	0	0	22,500	21,600	2	5	0	126,902	12,400	1	0	0.00	0.00	0.00	8.00	0.00	4.00
Wed 20	8	6.95	5.45%	18.60%	0.18%	6.60%	5.55%	19.55%	0.15%		0	0	19,500	20,600	3	5	0	75,628	8,900	1	0	0.00	0.00	6.00	8.00	0.00	3.00
Thu 21	8	8.01	5.30%	22.30%	0.16%	5.05%	5.25%	22.80%	0.16%		0	0	16,500	13,101	4	2	42,099	61,268	17,500	1	1	0.00	0.00	0.00	8.00	3.00	3.00
Fri 22	8	7.51	5.40%	19.50%	0.15%	6.55%	5.10%	20.45%	0.15%		0	0	13,500	15,099	2	2	44,400	66,724	15,200	1	0	0.00	0.00	1.00	8.00	4.00	4.00
Sat 23	8	8.94	5.40%	20.10%	0.16%	3.85%	6.10%	21.75%	0.14%	4.75%	0	0	14,500	15,701	2	1	60,600	115,196	72,100	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Sun 24																											
Mon 25	8	5.91	5.20%	21.45%	0.15%		4.45%	21.85%	0.15%		0	0	15,500	16,499	3	2	3,800	39,104	3,600	1	0	0.00	0.00	8.00	8.00	8.00	8.00
Tue 26	8	8.54	5.15%	23.30%	0.15%	4.20%	5.45%	21.15%	0.15%	5.60%	0	0	18,000	19,199	2	2	71,201	112,370	17,900	1	2	0.00	3.50	8.00	8.00	7.00	7.00
Wed 27	8	8.16	6.15%	23.35%	0.16%	6.15%	4.75%	20.00%	0.14%	5.35%	0	0	17,000	18,200	2	3	85,200	111,743	22,500	2	1	0.00	0.00	8.00	8.00	6.00	6.00
Thu 28	8	8.56	4.55%	22.50%	0.14%	6.05%	4.05%	18.85%	0.14%	4.65%	0	0	14,500	19,200	1	2	89,300	126,272	30,600	1	1	0.00	0.00	8.00	8.00	6.50	6.50
Fri 29	8	8.87	4.05%	19.15%	0.13%	7.35%	3.90%	20.15%	0.21%	5.10%	200	0	23,500	19,000	2	5	80,500	111,545	26,099	2	0	8.00	0.00	8.00	8.00	7.00	7.00
Sat 30	8	9.14	3.70%	18.85%	0.14%	5.25%	3.60%	19.80%	0.12%	4.40%	0	0	18,500	19,201	2	2	97,001	125,106	79,401	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Sun 31																											
	208		4.75%	20.47%	0.57%	5.80%	4.51%	20.64%	0.16%	5.24%	200	0	500,949	480,301	55	75	1,642,900	2,482,421	790,100	36	20	61.00	44.00	178.50	202.50	147.50	154.50
			5.91	3.20%	17.99%	0.13%	3.85%	3.25%	18.68%	0.12%	3.73%																
			9.35	7.05%	23.35%	5.99%	7.35%	6.10%	22.80%	0.51%	6.85%	200	0	31,390	34,300	4	5	102,699	126,902	79,401	2	2	8.00	8.00	9.00	9.00	8.00	8.00

Numbers in Red Font are Lab Data

March 2013 Solids Operations Report

2 PM - 10 PM

Date	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened (I-3750-85)	GBT % Solids Filtrate	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Fri 1	2.59%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 2	3.39%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 3	3.46%		0.21%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 4	4.15%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 5	4.29%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 6	3.29%		0.08%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 7	3.47%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 8	2.94%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 9	4.82%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 10	2.72%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 11	3.98%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 12	3.83%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 13	4.15%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 14	4.92%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 15	4.81%		0.20%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 16	6.08%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 17	5.70%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 18	5.45%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 19	5.84%	22.42%	0.16%	54,500	45.06	13.27	3.40	97.96%	8.00	1.66	0.38	5.66%	0.16%	10,712	3,200	70.13%	0.00	0.76	0.00	1.00	0.76	0.07
Wed 20	5.63%	20.88%	0.14%	20,800	15.02	4.88	3.08	98.17%	8.00	0.61	0.12			0	0		0.00			0.00		
Thu 21	5.24%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 22	4.99%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 23	6.00%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 24	6.24%		0.09%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 25	4.74%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 26	5.81%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 27	5.14%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 28	4.65%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 29	2.25%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 30	3.99%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 31	4.11%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				75,300	60.08	18.16	3.31	98.07%	16.00	2.27	0.49			10,712	3,200	70.13%	0.00	0.76	0.00	1.00	0.76	0.07
Average =	4.47%	21.65%	0.16%	2,429	1.94	0.59	3.24	98.07%	0.52	1.13	0.02	5.66%	0.16%	346	103	70.13%	0.00	0.76	0.00	0.03	0.76	0.07
Minimum =	2.25%	20.88%	0.08%	0	0.00	0.00	3.08	97.96%	0.00	0.61	0.00	5.66%	0.16%	0	0	70.13%	0.00	0.76	0.00	0.00	0.76	0.07
Maximum =	6.24%	22.42%	0.21%	54,500	45.06	13.27	3.40	98.17%	8.00	1.66	0.38	5.66%	0.16%	10,712	3,200	70.13%	0.00	0.76	0.00	1.00	0.76	0.07

$$\% \text{ Solids Recovery} = \frac{(\%\text{cake})(\%\text{feed} - \%\text{filtrate})}{(\%\text{feed})(\%\text{cake} - \%\text{filtrate})}$$

March 2013 Solids Operations Report

2 PM - 10 PM

Date	Hours of Operation	% Solids 1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP Sludge Processed BFP 1	BFP 2	BFP 3	BFP 4	BFP Polymer 1-2-3	4-5-6	GBT 1	GBT 2	Thicknd Sludge	GBT Polymer 7	8	Hours of Operation BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Fri 1																										
Sat 2																										
Sun 3																										
Mon 4																										
Tue 5																										
Wed 6																										
Thu 7																										
Fri 8																										
Sat 9																										
Sun 10																										
Mon 11																										
Tue 12																										
Wed 13																										
Thu 14																										
Fri 15																										
Sat 16																										
Sun 17																										
Mon 18																										
Tue 19	4	6.10%	22.00%	0.15%		5.64%	19.85%	0.15%		0	0	33,600	20,900	0	6	0	10,712	3,200	0	0	0.00	0.00	4.00	4.00	0.00	1.00
Wed 20	4	5.25%	20.25%	0.16%						0	0	12,000	8,800	1	1	0	0	0	0	0	0.00	0.00	4.00	4.00	0.00	0.00
Thu 21																										
Fri 22																										
Sat 23																										
Sun 24																										
Mon 25																										
Tue 26																										
Wed 27																										
Thu 28																										
Fri 29																										
Sat 30																										
Sun 31																										
	8	5.68%	21.13%	0.16%		5.64%	19.85%	0.15%		0	0	45,600	29,700	1	7	0	10,712	3,200	0	0	0.00	0.00	8.00	8.00	0.00	1.00
	Min:	5.25%	20.25%	0.15%	0.00%	5.64%	19.85%	0.15%	0.00%																	
	Max:	6.10%	22.00%	0.16%	0.00%	5.64%	19.85%	0.15%	0.00%	0	0	33,600	20,900	1	6	0	10,712	3,200	0	0	0.00	0.00	4.00	4.00	0.00	1.00

Numbers in Red Font are Lab Data

March 2013 Sludge Inventory Report

Date	Pumped from PSTs to Pri. Dig. (gal)	Pumped from PSTs to Mix Tank (gal)	Pumped from PSTs Total (gal)	Thickened Sludge to Pri. Dig. (gal)	Secondary Sludge to Mix Tank (gal)	Dig 1 (in.)	Dig 2 (in.)	Dig 3 (in.)	Mix Tank (in.)	Dig 4 (in.)	Dig 5 (in.)	Pri.Dig.Sldg. Inventory (gal)	Sec.Dig.Sldg. Inventory (gal)	Transfer (calculated) (gal)	Supernated (gal)	Pressed (gal)	Mix Tank Overflow Potential Calculated (gal)
									97			433,550	104,500				
Fri 1	0	96,708	96,708	51,300	67,000	30	29	32	95	11	10	478,250	57,750	6,600	0	48,988	0
Sat 2	0	98,314	98,314	74,000	153,000	25	28	36	107	5	32	501,550	101,750	50,700	0	34,590	0
Sun 3	0	98,930	98,930	48,500	246,000	43	27	19	0	5	34	244,750	107,250	305,300	0	28,515	0
Mon 4	0	98,478	98,478	70,100	259,000	18	30	38	97	5	32	469,300	101,750	0	0	53,578	0
Tue 5	0	99,126	99,126	61,600	295,000	39	30	22	104	5	25	499,850	82,500	31,050	0	79,405	0
Wed 6	0	99,764	99,764	48,400	321,000	36	39	19	96	1	16	488,900	46,750	59,350	0	95,737	0
Thu 7	0	99,090	99,090	67,300	271,000	15	34	35	112	0	21	499,800	57,750	56,400	0	96,356	0
Fri 8	0	98,910	98,910	67,300	131,000	37	33	21	102	0	17	495,050	46,750	72,050	0	87,232	0
Sat 9	0	96,654	96,654	65,500	121,000	21	31	36	102	0	20	486,800	55,000	73,750	0	34,575	0
Sun 10	0	97,654	97,654	46,000	217,000	42	30	21	0	0	36	255,750	99,000	277,050	0	31,762	0
Mon 11	0	97,620	97,620	71,500	327,000	39	30	29	95	0	27	497,500	74,250	0	0	94,341	0
Tue 12	0	108,660	108,660	64,900	318,000	39	41	27	100	0	27	534,250	74,250	28,150	0	121,326	0
Wed 13	0	94,190	94,190	69,400	270,000	45	27	28	102	0	36	519,800	99,000	83,850	0	77,918	0
Thu 14	0	98,170	98,170	67,900	318,000	40	39	22	87	0	34	486,550	93,500	101,150	0	76,000	0
Fri 15	0	94,413	94,413	62,000	103,000	29	22	37	97	0	30	474,800	82,500	73,750	0	74,292	0
Sat 16	0	96,016	96,016	78,300	141,000	40	52	37	101	0	27	597,150	74,250	0	0	17,400	0
Sun 17	0	95,904	95,904	46,000	263,000	25	52	27	0	0	50	286,000	137,500	357,150	0	28,540	0
Mon 18	0	88,426	88,426	66,800	290,000	36	22	40	99	0	51	507,100	140,250	0	0	62,183	0
Tue 19	0	96,233	96,233	56,000	366,000	28	34	22	84	0	36	432,600	99,000	130,500	0	132,193	0
Wed 20	0	95,580	95,580	52,100	232,000	33	24	23	83	0	18	419,200	49,500	65,500	0	109,335	0
Thu 21	0	95,285	95,285	56,600	216,000	30	20	20	96	0	18	422,900	49,500	52,900	0	65,576	0
Fri 22	0	95,473	95,473	53,300	76,000	31	21	23	90	0	17	422,250	46,750	53,950	0	52,899	0
Sat 23	0	95,296	95,296	72,100	105,000	28	48	29	107	0	5	545,550	13,750	0	0	30,201	0
Sun 24	7,024	79,500	86,524	45,500	198,000	28	24	25	0	0	36	211,750	99,000	386,324	0	29,180	0
Mon 25	55,635	23,483	79,118	31,100	321,000	45	24	24	71	0	45	426,150	123,750	0	0	35,399	0
Tue 26	0	91,639	91,639	61,500	329,000	42	27	21	102	0	43	492,300	118,250	0	0	62,700	0
Wed 27	0	100,732	100,732	65,799	359,000	42	22	27	98	0	39	485,450	107,250	72,649	0	68,240	0
Thu 28	0	109,211	109,211	72,200	374,000	28	39	39	103	0	28	538,700	77,000	18,950	0	62,501	0
Fri 29	0	109,582	109,582	68,100	105,000	28	29	35	106	0	35	507,400	96,250	99,400	0	81,399	0
Sat 30	0	106,269	106,269	79,401	206,000	27	45	21	110	0	49	519,750	134,750	67,051	0	37,701	0
Sun 31	0	105,034	105,034	51,500	119,000	27	25	39	0	0	53	250,250	145,750	321,000	0	37,992	6,630,566
	62,659	2,960,344	3,023,003	1,892,000	7,117,000									2,844,524	0	1,948,054	6,630,566
Ave:	2,021	95,495	97,516	61,032	229,581							451,529	86,847	91,759	0	62,840	213,889
Min:	0	23,483	79,118	31,100	67,000							211,750	13,750	0	0	17,400	0
Max:	55,635	109,582	109,582	79,401	374,000							597,150	145,750	386,324	0	132,193	6,630,566

Transfer = (change in Primary Sludge Inventory) + (sludge pumped from PSTs to Pri. Dig.) + (Thickened Sludge pumped to Pri. Dig.)

Mix Tank Overflow Potential = (change in Mix Tank level) + gallons from PSTs + secondary sludge (350 gpm) - GBT feed

March 2013 Soluble Sulfides Report

	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	Sludge Processed BFPs	GBTs
1-Mar							48,988	406,875
2-Mar							34,590	181,180
3-Mar							28,515	205,856
4-Mar							53,578	362,095
5-Mar							79,405	407,051
6-Mar							95,737	390,412
7-Mar							96,356	368,157
8-Mar							87,232	430,579
9-Mar							34,575	177,384
10-Mar							31,762	203,319
11-Mar							94,341	404,659
12-Mar							121,326	426,780
13-Mar							77,918	417,098
14-Mar							76,000	347,005
15-Mar							74,292	430,725
16-Mar							17,400	170,154
17-Mar							28,540	222,103
18-Mar							62,183	440,356
19-Mar							132,193	349,980
20-Mar							109,335	325,098
21-Mar							65,576	333,128
22-Mar							52,899	311,483
23-Mar							30,201	175,996
24-Mar							29,180	185,615
25-Mar							35,399	269,085
26-Mar							62,700	417,472
27-Mar							68,240	469,512
28-Mar							62,501	472,768
29-Mar							81,399	452,449
30-Mar							37,701	222,107
31-Mar							37,992	236,268
Ave:	N/A	N/A	N/A	N/A	N/A	N/A		
Min:	0.000	0.000	0.000	0.000	0.000	0.000		
Max:	0.000	0.000	0.000	0.000	0.000	0.000		

March 2013 Disposal Site Report

Date	Sludge Conestoga (Tons)	Sludge Rolling Hills (Tons)	Sludge Modern (Tons)	Sludge Pioneer Crossing (Tons)	6th St. (Tons)	Grit (Tons)	Tank Cleanings (Tons)	Scum (Tons)	San Swr Soil (Tons)	Exeter Sludge (Gallons)	Exeter % Solids	Valley Forge Sludge (Gallons)	Valley Forge % Solids	Total Cans Hauled Biosolids
Fri 1				36.56										
Sat 2				16.03										
Sun 3														
Mon 4				80.36										
Tue 5				63.43										
Wed 6				68.56										
Thu 7				65.33	6.03									
Fri 8				67.40										
Sat 9				15.72										
Sun 10														
Mon 11				87.36										
Tue 12				68.19										
Wed 13				70.88										
Thu 14				72.40	12.92									
Fri 15				88.06										
Sat 16				33.24										
Sun 17														
Mon 18				85.63										
Tue 19				102.57										
Wed 20				158.11										
Thu 21				104.44										
Fri 22				50.97										
Sat 23				17.82	5.81									
Sun 24														
Mon 25				86.22	30.10									
Tue 26				68.05										
Wed 27				68.91										
Thu 28				70.98										
Fri 29				70.06										
Sat 30				18.49										
Sun 31														
Total:	0.00	0.00	0.00	1735.77	54.86	0.00	0.00	0.00	0.00	0		0		0
Ave:	0.00	0.00	0.00	66.76	13.72	0.00	0.00	0.00	0.00	0		0		
Min:	0.00	0.00	0.00	15.72	5.81	0.00	0.00	0.00	0.00	0		0		
Max:	0.00	0.00	0.00	158.11	30.10	0.00	0.00	0.00	0.00	0		0		

March 2013 Supernating Data

	Digester#4	Gallons Supernated	%Solids	lbs supernated	Digester#5	Gallons Supernated	%Solids	lbs supernated	Total Gallons Supernated	Total lbs Supernated
Fri 1									0	0
Sat 2									0	0
Sun 3									0	0
Mon 4									0	0
Tue 5									0	0
Wed 6									0	0
Thu 7									0	0
Fri 8									0	0
Sat 9									0	0
Sun 10									0	0
Mon 11									0	0
Tue 12									0	0
Wed 13									0	0
Thu 14									0	0
Fri 15									0	0
Sat 16									0	0
Sun 17									0	0
Mon 18									0	0
Tue 19									0	0
Wed 20									0	0
Thu 21									0	0
Fri 22									0	0
Sat 23									0	0
Sun 24									0	0
Mon 25									0	0
Tue 26									0	0
Wed 27									0	0
Thu 28									0	0
Fri 29									0	0
Sat 30									0	0
Sun 31									0	0
TOTAL		0		0		0		0	0	0
AVG.										

March 2013 Laboratory Results

	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	% Solids GBT	% Solids GBT Filtrate	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	P1-4 %TS	P1-4 %VS	Dig 4 %TS	Dig 4 %VS	Dig 5 %TS	Dig 5 %VS
1-Mar	2.59%	19.72%	0.15%	6.38%										2.63%		3.20%	
2-Mar	3.39%	19.99%	0.16%	4.55%													
3-Mar	3.46%	20.12%	0.21%	5.60%													
4-Mar	4.15%	20.00%	0.18%	4.86%										2.17%		1.73%	
5-Mar	4.29%	21.47%	0.18%	7.11%													
6-Mar	3.29%	20.68%	0.08%	4.48%								3.18%	83.49%	0.51%	53.33%	4.25%	65.86%
7-Mar	3.47%	23.26%	0.13%	5.70%													
8-Mar	2.94%	22.63%	0.15%	5.91%										0.32%		4.13%	
9-Mar	4.82%	19.99%	0.18%	3.95%													
10-Mar	2.72%	21.00%	0.13%	5.42%													
11-Mar	3.98%	19.92%	0.14%	5.84%										0.29%		4.37%	
12-Mar	3.83%	20.29%	0.16%	5.58%													
13-Mar	4.15%	22.14%	0.17%	5.88%								3.10%	76.25%	1.39%	64.44%	4.20%	64.15%
14-Mar	4.92%	21.70%	0.14%	4.44%													
15-Mar	4.81%	22.74%	0.20%	6.14%												4.36%	
16-Mar	6.08%	20.90%	0.15%	4.05%													
17-Mar	5.70%	20.78%	0.16%	4.80%													
18-Mar	5.45%	20.92%	0.14%	5.77%												4.82%	
19-Mar	5.84%	22.42%	0.16%	5.66%													
20-Mar	5.63%	20.88%	0.14%	6.49%								3.11%	77.32%			5.40%	62.84%
21-Mar	5.24%	23.21%	0.17%	4.52%													
22-Mar	4.99%	21.44%	0.16%	5.66%												4.39%	
23-Mar	6.00%	22.46%	0.19%	4.14%													
24-Mar	6.24%	21.12%	0.09%	4.99%													
25-Mar	4.74%	21.78%	0.17%	7.89%												3.04%	
26-Mar	5.81%	23.10%	0.19%	5.51%													
27-Mar	5.14%	21.35%	0.19%	5.78%								2.11%	80.00%			5.37%	62.73%
28-Mar	4.65%	20.92%	0.17%	4.44%													
29-Mar	2.25%	19.15%	0.14%	5.32%												4.32%	
30-Mar	3.99%	20.10%	0.15%	4.68%													
31-Mar	4.11%	20.12%	0.15%	4.76%													
Avg	4.47%	21.17%	0.16%	5.36%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.88%	79.27%	1.22%	58.89%	4.12%	63.90%
Min	2.25%	19.15%	0.08%	3.95%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	3.18%	83.49%	2.63%	64.44%	5.40%	65.86%
Max	6.24%	23.26%	0.21%	7.89%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	2.11%	76.25%	0.29%	53.33%	1.73%	62.73%

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: ENVIRONMENTAL DIVISION
READING, PA 196013690

FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

RECEIVED
EPA REGION III
JUL 23 2013
WATER PROTECTION DIVISION
(3WP00)

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
6/1/2013	6/30/2013

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	65	******		0	DAILY	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.0	******	******		0	7/DAILY	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.0	******	7.6		0	DAILY	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	2308	2825		******	17	18		0	DAILY	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	260	******		******	1.9	******		0	DAILY	COMP24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	15.88	23.79		******	******	******	******	0	CONTIN UOUS	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.05	******		0	2/SHIFT	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shif	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	(610)655-6258		7/18/2013
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NONE

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: READING CITY
ADDRESS: ENVIRONMENTAL DIVISION
READING, PA 196013690

FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607
ATTN: DEBORAH HOAG/ENVR DIV MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMIT NUMBER	DISCHARGE NUMBER
PA0026549	001-A

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
6/1/2013	6/30/2013

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	< 0.01295	******		******	< 0.00010	******		0	WEEKLY	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	89	******		0	DAILY	GRAB
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	200 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1210	1450		******	9	10		0	DAILY	COMP24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	(610) 655-6258		7/18/2013
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NONE

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* June 2013

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 19.59	X 0.01	= 0.00
0.00	X 19.59	X 0.01	= 0.00
0.00	X 19.59	X 0.01	= 0.00
832.84	X 19.59	X 0.01	= 163.15
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 163.15

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	163.15
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

Date

City of Reading 3-C Watershed *for the Month* June 2013

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

	June 2013					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Jun	22.9	20	10	16	1.8	13.50	6.2	7.6	0.31		209	65	0.00	91	70
2-Jun	23.1	24	8	16	2.2	14.71	6.0	7.4	0.51		58	60	0.00	88	74
3-Jun	23.3	25	10	17	3.3	14.20	6.0	7.4	0.57		91	75	0.29	63	81
4-Jun	21.1	12	7	17	3.4	13.47	6.6	7.3	0.50		44	60	0.00	54	75
5-Jun	19.4	21	12	18	4.0	12.78	6.6	7.1	0.52		144	75	0.00	47	80
6-Jun	19.1	20	8	17	4.9	16.60	6.7	7.2	0.53		133	65	0.32	57	70
7-Jun	20.0	21	10	20	5.8	23.65	6.4	7.0	1.00		64	50	1.79	60	65
8-Jun	20.0	12	5	17	0.4	15.68	6.6	7.1	0.72		118	50	0.01	59	76
9-Jun	19.5	12	10	17	0.4	15.76	7.0	7.1	0.63		119	65	0.00	54	82
10-Jun	21.3	21	13	22	5.4	23.79	7.0	7.0	0.73		238	65	1.10	64	72
11-Jun	21.0	11	9	16	2.0	19.86	7.1	7.0	0.61		770	65	0.00	64	79
12-Jun	21.5	13	6	13	1.0	16.51	6.9	7.1	0.61		61	60	0.00	63	81
13-Jun	20.1	19	11	16	1.0	22.71	6.9	7.4	0.46		2,420	60	0.92	59	81
14-Jun	20.9	12	6	19	0.2	16.61	7.2	7.2	0.59		548	60	0.05	56	76
15-Jun	19.9	13	8	24	0.2	15.34	7.7	7.2	0.66		261	60	0.00	53	81
16-Jun	19.9	11	8	20	0.2	15.17	7.7	7.1	0.65		225	50	0.03	55	83
17-Jun	21.7	14	11	20	0.2	15.32	7.4	7.2	0.52		2,420	60	0.00	62	84
18-Jun	21.9	16	14	19	0.2	15.94	7.2	7.2	0.60		613	65	0.08	62	77
19-Jun	22.3	16	9	16	1.2	13.97	7.0	7.5	0.55		122	60	0.00	57	82
20-Jun	22.0	13	10	16	2.7	14.48	6.9	7.4	0.74		2,420	65	0.00	53	80
21-Jun	21.8	9	8	15	1.1	13.72	6.8	7.4	1.26		35	65	0.00	55	83
22-Jun	20.0	12	11	15	1.6	13.61	6.8	7.1	0.98		54	60	0.00	54	87
23-Jun	22.5	10	9	16	1.4	14.18	6.8	7.2	1.18		38	60	0.00	62	86
24-Jun	22.1	19	13	23	1.9	14.22	6.5	7.5	1.00		56	60	0.00	67	91
25-Jun	23.7	10	8	20	0.7	14.15	6.6	7.0	0.99		45	65	0.22	64	89
26-Jun	23.6	8	7	16	1.7	13.84	6.7	7.2	0.81		82	75	0.20	65	88
27-Jun	23.1	13	11	15	2.3	18.75	6.5	7.2	0.99		88	85	0.90	66	85
28-Jun	23.1	10	8	13	1.9	14.18	6.4	7.1	1.16		91	85	0.04	69	84
29-Jun	23.2	9	7	18	0.9	13.62	6.7	7.1	1.37		32	85	0.00	65	86
30-Jun	24.0	8	4	13	1.7	16.19	6.5	7.0	1.30		37	85	0.01	67	83
							See DO profile				See fecal profile				
TOTAL		434	271	520	55.6	476.5	###	216.2	23.05			1960	5.96		
Week 1	21.3	19	9	17	3.6	15.56	6.34	7.28	0.56		106	64	0.34	66	74
Week 2	20.6	14	9	18	1.5	18.70	6.94	7.13	0.62		611	61	0.30	60	78
Week 3	21.4	13	10	17	0.8	14.85	7.25	7.28	0.71		871	61	0.02	57	81
Week 4	22.6	11	9	17	1.6	14.70	6.62	7.19	1.02		65	70		64	87
Monthly	21.6	14	9	17	1.9	15.88	6.78	7.21	0.77		143	65	0.20	62	80
Weekly averages: 6/2-8, 6/9-15, 6/16-22, 6/23-29. 6/30 will be included in the weekly averages in July.															
Min =	19.1	8	4	13	0.2	12.78	6.0	7.0	0.31		32	50	0.00	47	65
Max =	24.0	25	14	24	5.8	23.79	7.7	7.6	1.37		2,420	85	1.79	91	91
											>				
DISCHARGE LIMITATIONS															
Ave Monthly:			20	30	6		Min.	6.0			200	186			
Ave Weekly:			30	45			of	to							
Inst. Max:			40	60	12		5.0	9.0				465			

Print Date: 7/18/2013

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Jun	14,762	34,946	49,708	7,788		57,496	2,252	1,126	16,287	28,809	45,097	10,355	55,452	1,801	378	640	1,722	2361	1,088	4,174	3,450	205
2-Jun	16,025	39,186	55,212	-28,707		26,505	2,944	981	8,140	33,834	41,974	10,505	52,479	1,963	708	641	2,007	2,648	572	3,975	3,220	266
3-Jun	4,700	50,010	54,710	-17,705		37,005	2,961	1,184	6,990	65,276	72,266	-27,860	44,405	2,013	1,095	600	1,886	2,486	1,699	6,579	4,185	390
4-Jun	4,157	31,290	35,447	4,262		39,709	1,348	786	4,484	55,645	60,129	-16,388	43,741	1,910	791	530	1,649	2,179	1,327	7,102	3,507	386
5-Jun	2,792	35,324	38,116	3,474		41,590	2,238	1,279	3,397	27,931	31,328	15,999	47,327	1,919	988	589	1,791	2,380	823	6,334	3,203	424
6-Jun	5,853	30,349	36,202	2,866	960	39,068	2,769	1,108	10,163	14,163	24,326	28,416	52,742	2,354	1,029	553	1,770	2,324	1,095	6,366	3,418	676
7-Jun	8,839	42,234	51,073	-13,597		37,476	4,142	1,972	15,350	25,059	40,409	-2,144	38,265	3,945	434	686	1,746	2,431	-45	2,690	2,387	1,148
8-Jun	7,546	23,216	30,762	16,584		47,346	1,569	654	21,303	27,687	48,990	-16,254	32,737	2,223	392	662	1,531	2,192	351	3,964	2,543	49
9-Jun	2,969	32,062	35,031	3,492	201	38,524	1,577	1,314	5,463	40,994	46,457	4,088	50,545	2,234	393	514	1,546	2,060	727	3,271	2,787	55
10-Jun	5,012	26,855	31,867	9,799		41,666	4,167	2,579	11,328	21,484	32,812	33,854	66,665	4,365	156	586	1,383	1,969	1,622	3,363	3,591	1,071
11-Jun	21,297	30,879	52,176	-1,680		50,497	1,822	1,491	18,215	17,343	35,558	11,865	47,423	2,650	1,310	429	1,290	1,719	799	6,310	2,518	323
12-Jun	3,052	35,795	38,847	4,527		43,375	1,790	826	1,801	12,503	14,304	24,602	38,906	1,790	527	549	1,583	2,132	-3	3,874	2,129	142
13-Jun	4,137	26,982	31,118	-13,128	291	17,990	3,599	2,083	11,996	52,389	64,385	-27,424	36,962	3,030	1,548	571	1,506	2,077	-262	4,713	1,815	189
14-Jun	7,826	27,547	35,373	1,383		36,756	1,662	831	8,805	16,345	25,149	15,283	40,432	2,632		580	1,561	2,141	-382		1,759	32
15-Jun	3,019	25,963	28,982	2,347		31,329	1,663	1,023	2,415	15,001	17,416	32,856	50,272	3,070		534	1,615	2,150	-486		1,664	24
16-Jun	7,146	23,664	30,810	-1,949		28,861	1,392	1,012	13,041	19,510	32,551	-2,019	30,531	2,530		566	1,608	2,173	-420		1,753	29
17-Jun	6,104	51,566	57,670	-14,603		43,066	1,789	1,405	9,766	47,746	57,512	-20,074	37,438	2,555		584	1,910	2,493	-475		2,019	26
18-Jun	4,395	32,082	36,477	-7,616		28,861	2,127	1,861	6,919	33,105	40,024	-13,547	26,476	2,526	692	525	1,553	2,078	463	5,716	2,540	33
19-Jun	5,920	30,586	36,505	-103		36,402	1,864	1,049	6,822	31,561	38,383	-6,208	32,175	1,864	962	536	1,481	2,016	661	6,453	2,677	142
20-Jun	4,944	24,932	29,876	5,841	103	35,717	1,570	1,208	6,713	40,861	47,574	-7,198	40,376	1,932	665	549	1,281	1,830	388	2,338	2,218	321
21-Jun	4,324	44,998	49,322	-10,388		38,934	1,030	915	6,105	39,904	46,008	-5,552	40,456	1,716		519	1,732	2,251	-21		2,229	128
22-Jun	4,865	31,534	36,398	-5,558		30,841	1,362	1,249	6,401	24,065	30,466	-2,410	28,056	1,703	601	545	1,701	2,247	420	4,259	2,666	180
23-Jun	5,107	37,548	42,654	768	486	43,422	1,183	1,064	6,861	38,421	45,282	6,602	51,884	1,892		555	1,668	2,223	494		2,717	161
24-Jun	4,338	34,770	39,109	-2,725		36,384	2,253	1,542	5,819	29,956	35,775	-1,375	34,399	2,728	1,102	546	1,578	2,124	-184	4,902	1,940	229
25-Jun	7,706	27,462	35,168	4,043		39,211	1,180	944	11,456	60,588	72,044	-40,022	32,023	2,360		640	1,176	1,815	1,648	6,598	3,464	81
26-Jun	7,506	29,321	36,827	-12,198		24,630	923	808	7,356	76,304	83,660	-68,454	15,206	1,847	1,203	585	1,106	1,691	739		2,431	192
27-Jun	6,921	25,771	32,693	19,608		52,300	2,033	1,720	7,919	37,202	45,121	30,147	75,268	2,346		563	1,320	1,883	981		2,864	363
28-Jun	2,577	24,936	27,513	3,672	285	31,185	1,183	946	1,855	7,395	9,250	15,041	24,291	1,537	652	446	1,341	1,787	762	2,212	2,550	222
29-Jun	2,544	23,463	26,007	-2,679		23,328	1,022	795	1,781	10,635	12,415	1,039	13,454	2,045	206	478	1,376	1,854	1,195	1,642	3,049	99
30-Jun	4,190	34,993	39,183	-8,799	211	30,384	1,080	540	5,028	38,776	43,804	-895	42,909	1,755	540	516	1,513	2,029	625	1,826	2,654	225
TOTAL	190,574	970,265	1,160,838	-50,981	2,536	1,109,858	58,494	36,298	249,978	990,491	1,240,469	-17,173	1,223,296	69,237	16,373	16,817	46,930	63,746	16,201	98,662	79,948	7,812
Week 1	8,161	37,620	45,781	-5,946	960	39,835	2,567	1,138	9,259	35,817	45,075	2,697	47,773	2,332	775	606	1,796	2,401	937	5,317	3,339	499
Week 2	7,406	29,048	36,454	2,997	246	39,450	2,326	1,450	11,273	26,964	38,236	6,573	44,810	2,825	721	556	1,486	2,042	407	4,249	2,449	266
Week 3	5,122	33,399	38,520	-3,782	103	34,739	1,590	1,243	7,397	32,527	39,924	-3,106	36,818	2,118	773	545	1,597	2,142	16	4,836	2,157	100
Week 4	5,574	30,192	35,766	1,087	386	36,853	1,397	1,117	6,810	39,133	45,943	-8,639	37,304	2,108	890	554	1,413	1,967	694	4,493	2,662	204
Monthly	6,352	32,342	38,695	-1,699	362	36,995	1,950	1,210	8,333	33,016	41,349	-572	40,777	2,308	744	561	1,564	2,125	540	4,485	2,665	260
Min =	2544	23216	26007	-28707	103	17,990	923	540	1,781	7,395	9,250	-68,454	13,454	1,537	156	429	1,106	1,691	-486	1,642	1,664	24
Max =	21297	51566	57670	19608	960	57,496	4,167	2,579	21,303	76,304	83,660	33,854	75,268	4,365	1,548	686	2,007	2,648	1,699	7,102	4,185	1,148
								3,336						7,130								1,000
								5,004						10,696								

Print Date: 7/18/2013

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Jun								
2-Jun								
3-Jun	0.00030	0.00723	0.00010	0.00877	0.00010	0.01276	< 0.00010	< 0.01184
4-Jun	0.00040	0.00934	0.00010	0.00846	0.00020	0.02444	0.00010	0.01123
5-Jun								
6-Jun								
7-Jun								
8-Jun								
9-Jun								
10-Jun								
11-Jun	0.00040	0.01121	0.00020	0.02115	0.00020	0.02927	< 0.00010	< 0.01656
12-Jun								
13-Jun								
14-Jun								
15-Jun								
16-Jun								
17-Jun								
18-Jun	0.00070	0.01985			0.00030	0.03578	< 0.00010	< 0.01329
19-Jun								
20-Jun			0.00040	0.03463				
21-Jun								
22-Jun								
23-Jun								
24-Jun								
25-Jun	0.00040	0.01027	0.00050	0.04291	0.00010	0.01089	< 0.00010	< 0.01180
26-Jun								
27-Jun								
28-Jun								
29-Jun								
30-Jun								
Total	0.00220	0.05790	0.00130	0.11592	0.00090	0.11314	0.00050	0.06474
Week 1	0.00035	0.00829	0.00010	0.00862	0.00015	0.01860	< 0.00010	< 0.01154
Week 2	0.00040	0.01121	0.00020	0.02115	0.00020	0.02927	< 0.00010	< 0.01656
Week 3	0.00070	0.01985	0.00040	0.03463	0.00030	0.03578	< 0.00010	< 0.01329
Week 4	0.00040	0.01027	0.00050	0.04291	0.00010	0.01089	< 0.00010	< 0.01180
Monthly	0.00044	0.01158	0.00026	0.02318	0.00018	0.02263	< 0.00010	< 0.01295
Min =	< 0.00030	< 0.00723	0.00010	0.00846	0.00010	0.01089	< 0.00010	< 0.01123
Max =	0.00070	0.01985	0.00050	0.04291	0.00030	0.03578	< 0.00010	< 0.01656
							0.00023	0.055
							0.00046	

Print Date: 7/18/2013

	June 2013				City of Reading Wastewater Treatment Plant																				Laboratory Process Control Data							
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent							
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jun	600	662	7.4	26.0	410	338	7.0	20.2	453	411	21.5	-3	23	5.5	450	434	27.0	6.9	4.8	22.3	15.32	225	86	25.4	0.5	6.5	[redacted]	122	21.4		2.8	7.3	32	25
2-Jun	630	320	7.2	25.2	410	354	7.1	21.0	456	347	21.9	-256	49	2.4	200	396	24.3	6.9	2.0	21.1	15.89	195	66	23.5	0.3	6.7	56	118	20.0		3.5	7.2	19	16
3-Jun	195	290	7.4	24.9	570	744	6.8	21.5	489	646	22.2	-199	-298	10.6	290	348	32.8	7.4	8.4	21.7	15.30	185	72	27.7	0.1	6.6	32	39	20.8	320	2.5	7.3	38	23
4-Jun	178	192	7.5	22.7	370	658	6.9	19.5	328	557	20.2	-3	-199	8.5	325	358	28.7	6.8	7.6	21.4	14.65	180	81	26.3	0.2	6.4	30	59	21.5		1.9	6.7	34	30
5-Jun	120	146	7.4	25.3	430	340	7.0	21.8	362	297	22.6	-14	99	4.2	348	396	26.8	6.7	7.9	20.7	14.33	180	74	28.5	0.3	6.4	32	45	24.2	320	3.3	7.0	37	21
6-Jun	220	382	6.7	20.8	300	140	6.8	17.5	283	190	18.2	-3	188	6.3	280	378	24.5	6.9	6.7	21.3	16.73	130	64	25.5	0.2	6.5	ns	n.s.	ns		3.2	7.0	32	25
7-Jun	205	356	7.1	15.9	300	178	6.8	12.4	278	220	13.2	-88	-26	-1.1	190	194	12.1	6.8	16.4	19.7	23.65	100	59	12.5	5.4	6.5	36	53	11.8	300	1.1	7.1	31	30
8-Jun	260	734	7.5	22.8	270	322	7.6	17.8	267	426	19.1	83	-184	-0.3	350	242	18.8	7.1	7.4	20.8	16.22	120	75	17.8	0.2	6.5	32	49	14.1		2.4	7.0	18	19
9-Jun	100	184	6.9	17.3	280	358	6.9	13.5	243	322	14.3	39	48	6.1	282	370	20.4	6.7	7.4	20.3	16.38	145	85	19.0	0.3	6.4	27	47	14.3		3.5	6.9	22	20
10-Jun	100	226	7.2	11.7	200	160	7.0	10.3	173	178	10.7	37	158	7.4	210	336	18.1	6.8	9.0	19.8	23.79	100	49	15.7	2.6	6.5	30	35	15.8	300	2.4	6.9	32	31
11-Jun	760	650	7.1	15.3	292	164	7.2	12.2	390	266	12.8	-45	58	4.4	345	324	17.2	7.1	8.8	21.1	17.55	110	52	18.1	4.4	6.5	18	30	14.7		3.4	6.8	18	25
12-Jun	100	59	7.2	18.0	355	124	6.7	15.7	296	109	16.2	34	187	0.0	330	296	16.2	6.7	8.2	20.8	15.76	110	91	18.4	0.2	6.4	34	50	16.5	300	3.4	7.0	28	14
13-Jun	100	290	6.9	13.8	240	466	6.6	13.4	202	419	13.5	-92	-193	-2.4	110	226	11.1	6.6	6.6	20.0	19.61	100	55	13.0	6.3	6.3	34	35	10.7		3.6	6.9	29	19
14-Jun	240	270	7.3	17.8	300	178	6.8	17.0	284	202	17.2	-4	106	-3.8	280	308	13.4	6.8	9.4	20.2	15.74	180	55	15.2	0.2	6.3	20	20	12.1	220	4.6	7.0	15	9
15-Jun	100	80	7.4	17.7	270	156	7.4	16.8	229	138	17.0	29	276	-3.3	258	414	13.7	7.1	9.6	19.9	14.56	175	55	15.9	0.2	6.5	27	41	12.9		3.9	6.8	20	13
16-Jun	240	438	7.3	19.0	262	216	7.1	17.8	257	271	18.1	-15	-15	-3.4	242	256	14.7	6.8	9.3	20.2	14.30	170	69	18.0	0.2	6.5	25	31	13.9		4.3	7.0	19	17
17-Jun	205	328	7.3	19.6	540	500	8.0	20.0	460	459	19.9	-108	-153	-3.4	352	306	16.5	6.8	6.2	21.1	14.67	190	62	17.5	0.2	6.4	32	34	12.6	260	4.0	6.9	20	11
18-Jun	155	244	6.8	18.5	345	356	7.3	16.7	301	330	17.1	-59	-108	4.2	242	222	21.3	6.6	4.5	21.3	14.30	205	67	18.0	0.2	6.4	43	68	12.4		3.1	6.9	24	21
19-Jun	210	242	7.5	19.0	345	356	6.6	16.7	312	328	17.3	-2	-54	5.5	310	274	22.8	6.8	6.7	21.3	14.08	195	60	19.4	0.3	6.6	21	19	14.9	300	3.9	7.1	22	13
20-Jun	190	258	7.3	21.1	288	472	6.8	14.8	265	423	16.3	57	-59	3.7	322	364	20.0	6.7	5.2	20.4	13.30	205	72	22.0	0.2	6.4	51	61	17.0		3.7	6.8	23	22
21-Jun	170	240	7.3	20.4	530	470	6.8	20.4	447	417	20.4	-89	-45	0.1	358	372	20.5	6.7	4.5	21.1	13.04	220	66	20.3	0.2	6.4	36	44	15.1	300	1.7	7.1	23	16
22-Jun	190	250	7.4	21.3	380	290	6.5	20.5	335	281	20.7	-47	-19	4.2	288	262	24.9	7.0	2.4	21.8	12.84	210	68	24.0	0.2	6.4	30	26	20.3		3.2	6.8	25	16
23-Jun	195	262	7.3	21.2	430	440	6.5	19.1	376	399	19.6	14	67	4.8	390	466	24.4	6.7	1.9	21.9	13.35	230	80	22.3	0.2	6.4	26	25	15.7		2.6	6.8	23	11
24-Jun	170	228	7.3	21.4	390	336	6.8	17.7	341	312	18.5	-11	0	-0.9	330	312	17.6	6.9	8.9	21.2	13.22	230	71	20.7	0.2	6.5	29	35	16.8	300	2.1	6.8	24	16
25-Jun	300	446	7.3	24.9	320	706	6.7	13.7	315	646	16.3	45	-352	15.5	360	294	31.8	6.6	5.8	21.6	13.06	240	72	22.0	0.2	6.4	40	31	13.9		3.2	7.0	26	13
26-Jun	300	294	7.3	23.4	342	890	7.3	12.9	333	755	15.3	-103	-613	7.4	230	142	22.7	6.6	7.1	22.7	12.84	230	56	25.1	0.4	6.3	38	26	19.8	280	3.0	6.9	25	16
27-Jun	215	246	7.4	17.5	248	358	6.6	12.7	240	332	13.8	138	212	6.9	378	544	20.7	6.6	5.1	22.4	16.59	220	56	18.1	0.2	6.3	34	25	13.5		2.0	6.8	33	23
28-Jun	100	72	7.2	17.3	290	86	6.8	15.6	246	83	16.0	39	139	7.3	285	222	23.3	6.7	8.1	21.9	13.12	185	67	20.3	0.2	6.3	14	13	15.4	220	3.0	6.8	24	14
29-Jun	100	70	7.3	18.8	278	126	6.9	16.3	237	113	16.9	-22	11	11.2	215	124	28.1	6.8	4.7	23.8	13.01	190	78	22.2	0.2	6.3	13	11	15.6		3.4	7.0	19	10
30-Jun	160	192	7.3	19.7	370	410	6.9	16.0	324	363	16.8	-79	-17	4.6	245	346	21.4	6.7	4.3	22.3	14.87	180	52	19.0	0.2	6.4	35	40	16.4		3.8	6.9	15	14
	<																										[redacted]							
TOTAL	6808	8651	217.2	598.3	10355	10692	208	501.5	9524	10238	523.5	-729	-712	112.3	8795	9526	635.8	###	###	636.1	462.07	5335	2015	611.4	24.6	###	1031	1232	464.1	3420.0	92.4	208.2	750	553
Week 1	307	335	7.2	23.0	399	393	6.9	19.1	378	381	20.0	-81	-23	5.2	298	358	25.2	6.9	7.7	21.2	16.55	171	72	24.2	1.0	6.5	57	73	20.0	313.3	2.6	7.1	32	24
Week 2	237	345	7.2	16.7	277	253	7.0	14.3	265	275	14.8	7	26	1.6	272	300	16.5	6.8	8.1	20.4	17.86	124	66	16.7	2.0	6.4	28	38	14.0	273.3	3.3	6.9	23	20
Week 3	181	261	7.2	19.3	369	361	7.1	17.6	325	338	18.0	-27	-23	0.5	298	315	18.5	6.8	6.6	20.8	14.04	194	64	18.7	0.2	6.4	34	43	14.1	286.7	3.5	6.9	22	16
Week 4	210	257	7.3	21.0	343	444	6.7	16.0	312	401	17.2	11	-81	6.5	323	320	23.6	6.7	5.6	21.9	13.57	221	67	21.8	0.2	6.4	30	26	16.5	266.7	2.7	6.8	26	16
Monthly	227	288	7.2	19.9	345	356	6.9	16.7	317	341	17.5	-24	-24	3.7	293	318	21.2	6.8	6.8	21.2	15.40	178	67	20.4	0.8	6.4	36	42	16.0	285.0	3.1	6.9	25	18
					Avg used in lieu of NS for loading calc																													
Min =	100	59	6.7	12	200	86	6.5	10	173	83	10.7	-256	-613	-3.8	110	124	11.1	6.6	1.9	19.7	12.84	100	49	12.5	0.1	6.3	13	11	10.7	220.0	1.1	6.7	15	9
Max =	760	734	7.5	26	570	890	8.0	22	489	755	22.6	138	276	15.5	450	544	32.8	7.4	16.4	23.8	23.79	240	91	28.5	6.3	6.7	156	122	24.2	320.0	4.6	7.3	38	31
									%Removal						%Removal																			
									95.44	94.92	89.37				95.07	94.54	91.25																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	DO	chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	DO	Nitrite	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
14.4		4.2	165	7.0	32	20	18	1.8			5.5		7.3		82.0	905.0
14.2		5.8	145	7.1	35	23	30	2.3			6.5		7.4		164.0	920.0
14.2	260	7.1	150	7.4	32	17	20	3.2	160	6.2	5.3	0.890	7.3		144.0	865.0
14.8		6.5	150	7.2	20	11	19	3.6			5.5		7.0		113.0	1015.0
17.1	240	6.3	155	7.2	23	15	15	4.2	160		6.1		7.0		152.0	975.0
16.1		6.4	150	7.1	ns	ns	n.s.	ns			6.0		6.9	153.0	164.0	1015.0
9.1	280	6.1	120	7.2	26	9	18	4.9	180		6.0		7.2		151.0	935.0
7.4		7.6	125	7.2	14	6	15	0.3			7.7		7.3		88.0	890.0
9.1		6.6	120	6.9	ns	ns	ns	ns			8.1		7.1	46.0	90.0	750.0
10.1	260	6.5	100	7.0	32	12	26	5.0	200	5.4	8.0	0.555	7.1		22.0	475.0
9.5		6.3	125	6.9	26	10	25	2.2			7.3		7.3		192.0	925.0
9.7	240	5.9	140	7.0	19	11	18	0.9	240		6.8		7.2		100.0	735.0
6.6		5.8	135	7.0	26	15	17	1.0			6.9		7.0	64.0	340.0	1035.0
6.9	180	6.3	125	7.1	16	11	16	0.2	160		7.2		7.1			
6.8		7.6	120	7.1	17	12	15	0.2			7.9		7.3			
7.5		6.0	120	7.0	14	9	14	0.2			7.6		7.3			
7.1	260	6.1	130	6.9	18	12	14	0.2	180		7.6		7.4			
6.4		5.5	140	6.4	20	16	22	0.2			7.2		7.3		118.0	975.0
8.6	240	5.6	145	7.0	16	12	11	1.4	180	7.3	7.7	0.268	7.3		158.0	1060.0
10.6		6.0	150	7.7	20	11	13	2.9			6.4		7.2	40.0	259.0	910.0
8.2	220	6.3	135	7.0	19	13	12	0.9	200		6.9		7.3			
10.9		6.3	135	7.1	18	15	8	1.7			5.7		7.2		149.0	1055.0
9.0		5.4	120	6.9	16	13	8	1.1			5.7		7.2	111.0		
10.3	220	4.4	135	6.9	25	15	10	2.1	160	12.7	6.6	0.416	7.2		209.0	930.0
7.4		4.8	135	6.9	19	9	14	0.4			6.1		7.1			1140.0
11.7	220	5.8	140	7.0	18	12	11	1.8	160		6.3		7.1		223.0	
7.9		4.7	145	6.8	21	18	10	2.2			6.0		7.7			
9.8	200	3.9	125	6.7	17	9	7	1.9	160		5.8		6.9	98.0	224.0	760.0
9.0		6.1	120	6.9	16	12	6	0.8			7.2		7.2		66.0	525.0
9.2		5.4	120	6.9	18	9	10	1.8			6.3		7.7	71.0	182.0	615.0
299.6	2820.0	177.1	4020.0	210.2	593	357	422	49.2	2140.0	31.6	199.6	2.129	216.5	583.0	3390.0	19410.0
14.3	260.0	6.0	147.9	7.2	28	16	20	3.3	166.7	6.2	5.8	0.890	7.2	153.0	138.6	947.1
8.5	226.7	6.4	124.3	7.0	22	11	20	1.6	200.0	5.4	7.4	0.555	7.1	55.0	138.7	801.7
7.9	240.0	6.2	134.3	7.0	18	12	14	0.8	186.7	7.3	7.3	0.268	7.3	40.0	178.3	981.7
9.6	213.3	5.0	133.6	6.9	19	13	10	1.6	160.0	12.7	6.0	0.416	7.2	104.5	201.3	971.3
10.0	235.0	5.9	134.0	7.0	21	13	15	1.8	178.3	7.9	6.7	0.532	7.2	83.3	154.1	882.3
6.4	180.0	3.9	100.0	6.4	14	6	6	0.2	160.0	5.4	5.3	0.268	6.9	40.0	22.0	475.0
17.1	280.0	7.6	165.0	7.7	35	23	30	5.0	240.0	12.7	8.1	0.890	7.7	153.0	340.0	1140.0

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		June 2013																
		Flow (MGD)											On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
1-Jun	10.220	1.826	0.551	2.950	12.370	15.320	13.500	4.990	5.280	0.553	32.572	34.465						
2-Jun	11.460	2.018	0.675	3.050	12.840	15.890	14.710	3.550	5.430	0.518	22.341	34.172						
3-Jun	10.520	1.715	0.669	2.890	12.410	15.300	14.200	7.930	5.400	0.912	51.830	35.294						
4-Jun	10.140	1.805	0.654	2.800	11.850	14.650	13.470	7.190	5.550	0.839	49.078	37.884						
5-Jun	9.850	1.622	0.625	2.790	11.540	14.330	12.780	7.200	5.250	0.779	50.244	36.636						
6-Jun	12.130	2.073	0.754	3.190	13.540	16.730	16.600	8.310	4.960	0.752	49.671	29.647						
7-Jun	16.880	2.867	0.745	5.170	18.480	23.650	23.650	9.390	0.220	0.345	39.704	0.930						
8-Jun	10.310	1.727	0.530	3.480	12.740	16.220	15.680	9.980	6.060	0.534	61.529	37.361						
9-Jun	13.730	2.525	0.800	3.560	12.820	16.380	15.760	10.260	5.890	0.523	62.637	35.958						
10-Jun	16.100	3.356	0.834	6.010	17.780	23.790	23.790	8.830		0.849	37.116							
11-Jun	12.680	2.336	0.675	3.360	14.190	17.550	19.860	12.740	5.970	0.818	72.593	34.017						
12-Jun	12.090	2.061	0.681	3.660	12.100	15.760	16.510	12.150	5.510	0.632	77.094	34.962						
13-Jun	13.480	3.057	0.694	4.960	14.650	19.610	22.710	11.470	4.590	0.546	58.491	23.406						
14-Jun	11.010	1.976	0.594	3.910	11.830	15.740	16.610	11.520	5.500	0.294	73.189	34.943						
15-Jun	11.530	2.444	0.572	3.620	10.940	14.560	15.340	11.690	5.720	0.358	80.288	39.286						
16-Jun	10.830	2.061	0.599	3.570	10.730	14.300	15.170	11.420	5.590	0.352	79.860	39.091						
17-Jun	11.450	2.182	0.997	3.570	11.100	14.670	15.320	11.560	5.580	0.545	78.800	38.037						
18-Jun	11.150	2.780	0.635	3.400	10.900	14.300	15.940	11.970	5.760	0.703	83.706	40.280						
19-Jun	10.630	1.258	0.380	3.380	10.700	14.080	13.970	11.730	5.630	0.730	83.310	39.986						
20-Jun	10.380	1.888	0.647	3.120	10.180	13.300	14.480	11.610	5.570	0.308	87.293	41.880						
21-Jun	10.180	1.862	0.600	3.050	9.990	13.040	13.720	11.160	5.340	0.265	85.583	40.951						
22-Jun	9.950	1.796	0.536	3.070	9.770	12.840	13.610	9.740	5.430	0.484	75.857	42.290						
23-Jun	10.470	1.964	0.629	3.140	10.210	13.350	14.180	11.900	5.480	0.525	89.139	41.049						
24-Jun	10.690	1.908	0.674	3.060	10.160	13.220	14.220	11.830	5.310	0.632	89.486	40.166						
25-Jun	10.290	1.932	0.656	3.080	9.980	13.060	14.150	10.360	5.220	0.694	79.326	39.969						
26-Jun	10.280	1.870	0.671	3.000	9.840	12.840	13.840	11.590	5.140	0.647	90.265	40.031						
27-Jun	12.460	2.267	0.722	3.860	12.730	16.590	18.750	10.810	3.350	0.688	65.160	20.193						
28-Jun	10.310	1.911	0.619	3.090	10.030	13.120	14.180	8.910	5.920	0.349	67.912	45.122						
29-Jun	10.120	1.830	0.564	3.050	9.960	13.010	13.620	8.630	6.170	0.375	66.334	47.425						
30-Jun	11.340	2.126	0.682	3.140	11.730	14.870	16.190	8.550	5.050	0.356	57.498	33.961						
	Influent flow used in lieu of effluent due to inaccuracy of effluent flow meter over 25 mgd.																	
Total	342.660	63.043	19.666	103.980	358.090	462.070	476.510	298.970	151.870	16.905	1997.906	1039.39						
Week 1	11.600	1.989	0.668	3.263	13.290	16.553	15.559	6.937	4.584	0.671	42.206	29.86						
Week 2	12.771	2.434	0.687	4.134	13.730	17.864	18.703	10.993	5.587	0.599	63.236	33.44						
Week 3	10.879	2.068	0.633	3.387	10.649	14.036	14.849	11.591	5.599	0.466	82.692	39.93						
Week 4	10.636	1.950	0.644	3.186	10.389	13.574	14.704	10.734	5.121	0.574	79.592	38.40						
Monthly	11.422	2.101	0.656	3.466	11.936	15.402	15.884	9.966	5.237	0.564	66.597	35.84						
	42 inch flow meter replaces 6th and Canal in calculation of the influent.																	
Min =	9.850	1.258	0.380	2.790	9.770	12.840	12.780	3.550	0.220	0.265	22.341	0.93						
Max =	16.880	3.356	0.997	6.010	18.480	23.790	23.790	12.740	6.170	0.912	90.265	47.43						

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	June 2013			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jun															
2-Jun	7.0	610	4600	7.1	120	4900	7.2	192	4880						
3-Jun										7.3	188	5220			
4-Jun	7.1		4680	7.3		4860	7.3		5120						
5-Jun										7.2		5200			
6-Jun	7.3	140	5063	7.2	155	5000	7.2	475	4560						
7-Jun										7.2	158	5200			
8-Jun															
9-Jun	7.1	282	4900	7.3	408	4200	7.2	148	4920						
10-Jun										7.1	375	5260	ns	ns	ns
11-Jun	7.2		5100	7.4		4900	7.4		5120						
12-Jun										7.2		5400			
13-Jun	7.3	190	5260	7.3	175	4300	7.3	210	4780						
14-Jun										7.4	190	4100			
15-Jun															
16-Jun	7.1	205	5080	7.2	245	4300	7.3	370	5040						
17-Jun										7.3	662	3200			
18-Jun	7.0		4780	7.2		4600	7.2		4920						
19-Jun										7.2		5460			
20-Jun	7.2	182	5060	7.2	185	4520	7.0	618	4200						
21-Jun										7.3	572	2900			
22-Jun															
23-Jun	7.1	112	5080	7.3	748	4440	7.3	535	5140						
24-Jun										7.3	538	5540			
25-Jun	7.1		5060	7.2		4720	7.2		5160						
26-Jun										7.3		5620	7.2		4860
27-Jun	7.1	762	5000	7.2	282	4580	7.2	195	5160						
28-Jun										7.3	1282	5640	7.1	268	5280
29-Jun															
30-Jun	7.1	98	4740	7.2	106	4740	7.2	160	5280						
Total	92.9	2581	64403	94.2	2424	60060	94.0	2903	64280	87.2	3965	58740	14.2	268	10140
Week 1	7.1	375	4781	7.2	138	4920	7.2	334	4853	7.2	173	5207	#DIV/0!	#DIV/0!	#DIV/0!
Week 2	7.2	236	5087	7.3	292	4467	7.3	179	4940	7.3	283	4920	#DIV/0!	#DIV/0!	#DIV/0!
Week 3	7.1	194	4973	7.2	215	4473	7.2	494	4720	7.3	617	3853	#DIV/0!	#DIV/0!	#DIV/0!
Week 4	7.1	437	5047	7.2	515	4580	7.2	365	5153	7.3	910	5600	7.1	268	5070
Monthly	7.1	287	4954	7.2	269	4620	7.2	323	4945	7.3	496	4895	7.1	268	5070
Min =	7.0	98	4600	7.1	106	4200	7.0	148	4200	7.1	158	2900	7.1	268	4860
Max =	7.3	762	5260	7.4	748	5000	7.4	618	5280	7.4	1282	5640	7.2	268	5280

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June 2013
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Jun	0.02	0.01	0.01	0.02	0.00	0.01	0.01	
2-Jun	0.02	0.02	0.02	0.02	0.01	0.05	0.02	
3-Jun	0.03	0.02	0.02	0.01	0.02	0.02	0.02	
4-Jun	0.01	0.01	0.00	0.01	0.01	0.02	0.01	
5-Jun	0.03	0.01	0.04	0.02	0.02	0.01	0.02	
6-Jun	0.04	0.00	0.01	0.00	0.02	0.02	0.02	
7-Jun	0.00	0.03	0.02	0.02	0.00	0.00	0.01	
8-Jun	0.02	0.03	0.02	0.01	0.02	0.01	0.02	
9-Jun	0.00	0.00	0.01	0.01	0.02	0.03	0.01	
10-Jun	0.04	0.01	0.00	0.00	0.00	0.00	0.01	
11-Jun	0.02	0.00	0.02	0.02	0.00	0.00	0.01	
12-Jun	0.02	0.00	0.02	0.02	0.02	0.04	0.02	
13-Jun	0.02	0.02	0.33	0.01	0.00	0.01	0.07	
14-Jun	0.01	0.03	0.04	0.02	0.02	0.03	0.03	
15-Jun	0.00	0.00	0.04	0.02	0.03	0.02	0.02	
16-Jun	0.02	0.01	0.03	0.02	0.01	0.01	0.02	
17-Jun	0.00	0.05	0.02	0.02	0.00	0.02	0.02	
18-Jun	0.03	0.02	0.03	0.01	0.03	0.03	0.03	
19-Jun	0.02	0.01	0.00	0.03	0.03	0.01	0.02	
20-Jun	0.02	0.02	0.01	0.03	0.04	0.08	0.03	
21-Jun	0.07	0.05	0.03	0.05	0.03	0.05	0.05	
22-Jun	0.08	0.27	0.05	0.03	0.07	0.05	0.09	
23-Jun	0.06	0.33	0.05	0.04	0.02	0.02	0.09	
24-Jun	0.14	0.06	0.04	0.19	0.03	0.04	0.08	
25-Jun	0.05	0.02	0.03	0.02	0.03	0.15	0.05	
26-Jun	0.27	0.32	0.03	0.01	0.04	0.04	0.12	
27-Jun	0.59	0.23	0.02	0.06	0.05	0.01	0.16	
28-Jun	0.09	0.01	0.05	0.05	0.02	0.03	0.04	
29-Jun	0.04	0.46	0.08	0.02	0.06	0.05	0.12	
30-Jun	0.02	0.41	0.08	0.34	0.20	0.02	0.18	
Average	0.06	0.08	0.04	0.04	0.03	0.03	0.05	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.59	0.46	0.33	0.34	0.20	0.15		

Dissolved Oxygen -June 2013

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
6/1/2013	6.4	6.2	6.6	6.3	6.5	6.4	6.4	6.2	
6/2/2013	6.5	6.6	6.8	6.0	6.5	6.2	7.6	6.0	
6/3/2013	6.5	6.5	6.1	6.6	6.7	6.4	6.0	6.0	
6/4/2013	6.8	6.8	6.9	6.8	7.0	6.7	6.6	6.6	
6/5/2013	6.9	6.9	6.8	6.9	6.8	6.6	6.6	6.6	
6/6/2013	6.7	7.0	6.8	6.8	6.7	6.7	6.7	6.7	
6/7/2013	6.7	6.5	6.8	6.7	6.7	6.7	6.4	6.4	
6/8/2013	6.9	6.6	7.5	8.1	8.0	7.5	7.8	6.6	
6/9/2013	7.6	7.8	7.9	7.9	7.3	7.0	7.9	7.0	
6/10/2013	7.1	7.5	7.4	7.0	7.0	7.0	8.5	7.0	
6/11/2013	7.1	7.7	8.0	7.7	7.4	7.3	7.2	7.1	
6/12/2013	7.2	7.5	7.3	7.5	7.1	6.9	7.1	6.9	
6/13/2013	7.0	7.2	7.3	7.1	6.9	7.1	7.0	6.9	
6/14/2013	7.2	7.6	7.8	8.1	8.2	7.9	7.2	7.2	
6/15/2013	7.9	8.0	8.0	8.3	8.0	7.7	8.3	7.7	
6/16/2013	7.8	7.9	7.9	7.8	7.9	7.7	7.9	7.7	
6/17/2013	7.6	7.6	7.6	8.0	7.7	7.4	7.8	7.4	
6/18/2013	7.4	7.4	7.2	7.5	7.7	7.7	7.4	7.2	
6/19/2013	7.6	7.6	7.5	7.6	7.4	7.0	7.7	7.0	
6/20/2013	7.2	7.3	7.2	7.5	7.2	6.9	7.2	6.9	
6/21/2013	7.0	7.1	6.8	7.4	7.3	7.1	8.1	6.8	
6/22/2013	7.1	7.2	7.2	7.4	7.2	6.8	7.0	6.8	
6/23/2013	6.9	7.0	6.8	7.2	6.9	6.8	6.8	6.8	
6/24/2013	6.7	6.8	6.8	7.1	6.7	6.5	6.9	6.5	
6/25/2013	6.6	6.7	6.8	7.1	7.4	7.0	6.7	6.6	
6/26/2013	7.0	7.3	7.1	7.3	6.9	6.7	7.2	6.7	
6/27/2013	6.7	7.0	6.9	7.0	7.0	6.5	6.8	6.5	
6/28/2013	6.4	6.4	6.4	7.1	6.9	6.6	6.6	6.4	
6/29/2013	6.7	6.9	6.7	7.2	7.2	6.8	8.0	6.7	
6/30/2013	6.8	6.8	6.9	7.0	6.9	6.5	7.1	6.5	
Min	6.37	6.20	6.10	6.02	6.53	6.22	6.0	Min	5.96
Max	7.90	8.00	7.97	8.26	8.19	7.92	8.5	Max	7.69
								Avg	6.78

Fecal coliform

6/1/2013	209.0				
6/2/2013	58.0				
6/3/2013	91.0				
6/4/2013	44.0				
6/5/2013	144.0				
6/6/2013	133.0				
6/7/2013	64				
6/8/2013	118				
6/9/2013	119				
6/10/2013	238				
6/11/2013	770				
6/12/2013	61				
6/13/2013	2420				
6/14/2013	548				
6/15/2013	261				
6/16/2013	225				
6/17/2013	2420				
6/18/2013	613				
6/19/2013	122				
6/20/2013	2420	86	30	50	12
6/21/2013	35				
6/22/2013	54				
6/23/2013	38				
6/24/2013	56	46	23	28	34
6/25/2013	45	36	32	26	30
6/26/2013	82	49	73	74	72
6/27/2013	88	71	77		
6/28/2013	91	91	49		
6/29/2013	32				
6/30/2013	37				

# samples	50
Geomean	89.0

CITY OF READING WASTEWATER TREATMENT PLANT

June 2013 Biosolids Report

Solids Processing:

	Total
Sludge Pumped from Primary Settling Tanks (gallons):	3,309,337
Secondary Sludge Pumped to Mix Tank (gallons):	7,948,000
Supernated from Secondary Digesters (gallons):	0

Gravity Belt Thickeners:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	6,143,371	4,741,595	0	10,884,966
Thickened Sludge (gallons):	1,183,100	1,013,890	0	2,196,990
Polymer (pounds):	961.28	480.64	0.00	1441.92
Solids (dry tons):	216.10	150.03	0.00	366.13
Polymer dosage (pounds/dry ton):	4.45	3.20		3.94
% Reduction:	80.74%	78.62%		79.82%
GBT Solids in Filtrate (dry tons):	5.15	21.36	0.00	26.51
GBT 1 Hours of Operation:	194.00	162.50	0.00	356.50
GBT 2 Hours of Operation:	186.00	146.00	0.00	332.00
Total GBT Hours of Operation:	380.00	308.50	0.00	688.50
Dry tons/hour:	0.57	0.49		0.53

Belt Filter Presses:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	663,486	632,750	0	1,296,236
Polymer (pounds):	555.74	608.31	0.00	1164.05
Solids (dry tons):	83.20	79.75	0.00	162.95
Polymer dosage (pounds/dry ton):	6.68	7.63		7.14
% Solids Recovery:	96.14%	96.06%		96.10%
Solids in Filtrate (dry tons):	4.03	3.65	0.00	7.68
BFP 1 Hours of Operation:	41.50	40.00	0.00	81.50
BFP 2 Hours of Operation:	16.50	19.50	0.00	36.00
BFP 3 Hours of Operation:	76.00	7.00	0.00	83.00
BFP 4 Hours of Operation:	118.00	113.00	0.00	231.00
Total BFP Hours of Operation:	252.00	179.50	0.00	431.50
Dry tons/hour:	0.33	0.44		0.38

Total Solids in Filtrate (dry tons):	34.19
% Solids (Method 2540 G):	19.59%
Total Wet Tons Removed:	832.84
Dry Tons Removed:	163.15
Hours of Operation:	384
Fritz Island Scum Disposed (tons):	0.00
Fritz Island Grit Disposed (tons):	0.00
6th & Canal Grit Disposed (tons):	0.00
Mix Tank Cleaning/Snail Shells Disposed (tons):	0.00
Sanitary Sewer Excavation Soil (tons):	0.00

June 2013 Biosolids Report

Date									Polymer (lbs)	BFP Feed (gal)	Solids (dry tons)	Polymer Dose lb/dry ton	Wet Tons	6th St.	Grit	Snail Shells	Scum	Supernated (gpd)	GBT Feed (gal)	Thickened (gal)	GBT Poly (lbs)	Date
Sat 1				2.61%	17.41%	0.13%	4.52%	0.13%	0.00	0	0.00		18.47					0	0	0	0.00	Sat 1
Sun 2				2.62%	18.76%	0.12%	4.54%	0.12%	37.55	33,241	3.63	10.34						0	206,960	50,000	37.55	Sun 2
Mon 3				2.85%	19.00%	0.10%	5.23%	0.10%	97.63	86,950	10.33	9.45	91.44					0	496,969	81,300	75.10	Mon 3
Tue 4				2.63%	19.99%	0.13%	8.11%	0.13%	105.14	104,175	11.42	9.20	60.89					0	465,215	66,800	52.57	Tue 4
Wed 5	77.78%	63.72%	49.83%	2.80%	20.75%	0.19%	6.45%	0.19%	120.16	101,250	11.82	10.16	67.83					0	424,949	69,600	52.57	Wed 5
Thu 6				2.77%	19.30%	0.14%	6.04%	0.14%	90.12	79,525	9.19	9.81	37.29					0	460,059	65,000	67.59	Thu 6
Fri 7				2.80%	19.41%	0.12%	3.09%	0.12%	82.61	65,550	7.65	10.79	52.21					0	445,773	72,800	52.57	Fri 7
Sat 8				3.01%	20.16%	0.15%	3.68%	0.15%	105.14	40,950	5.14	20.46						0	230,931	135,900	30.04	Sat 8
Sun 9				2.87%	19.89%	0.17%	4.98%	0.17%	37.55	32,950	3.94	9.52						0	206,896	55,399	37.55	Sun 9
Mon 10				2.98%	22.26%	0.11%	3.30%	0.11%	75.10	92,475	11.49	6.54	73.06					0	472,889	86,200	67.59	Mon 10
Tue 11				3.07%	21.73%	0.14%	3.12%	0.14%	60.08	112,250	14.37	4.18	88.77					0	435,600	173,193	45.06	Tue 11
Wed 12	78.02%	60.99%	55.95%	3.34%	20.87%	0.13%	3.76%	0.13%	60.08	65,850	9.17	6.55	36.02					0	441,723	66,498	45.06	Wed 12
Thu 13				3.02%	20.80%	0.16%	5.38%	0.16%	7.51	9,750	1.23	6.12	18.00					0	441,888	64,100	60.08	Thu 13
Fri 14							4.49%		15.02	3,100	0.00							0	509,353	75,300	45.06	Fri 14
Sat 15							2.74%		7.51	0	0.00							0	221,277	96,800	15.02	Sat 15
Sun 16							4.29%		0.00	0	0.00							0	219,209	46,799	37.55	Sun 16
Mon 17							3.95%		0.00	0	0.00							0	466,067	76,401	60.08	Mon 17
Tue 18				2.88%	20.21%	0.14%	3.81%	0.14%	0.00	9,400	1.13	0.00	10.86					0	455,174	65,000	60.08	Tue 18
Wed 19	82.73%	62.10%	65.80%	3.13%	3.37%	0.17%	3.37%	0.17%	22.53	33,600	4.39	5.14	16.21					0	438,497	63,399	60.08	Wed 19
Thu 20				3.32%	20.29%	0.15%	3.53%	0.15%	30.04	71,150	9.85	3.05	52.72					0	422,230	65,901	52.57	Thu 20
Fri 21							3.70%		15.02	0	0.00							0	314,262	94,100	52.57	Fri 21
Sat 22				3.43%	24.44%	0.17%	2.66%	0.17%	30.04	47,100	6.74	4.46						0	216,989	89,899	30.04	Sat 22
Sun 23							3.83%		0.00	0	0.00							0	239,686	56,301	37.55	Sun 23
Mon 24				3.34%	20.47%	0.15%	3.67%	0.15%	45.06	71,400	9.94	4.53	68.85					0	465,757	75,400	67.59	Mon 24
Tue 25							3.69%		0.00	2,900	0.00		18.04					0	466,428	63,999	52.57	Tue 25
Wed 26	83.18%	62.30%	66.58%	3.40%	20.31%	0.19%	5.29%	0.19%	37.55	74,190	10.52	3.57	34.66					0	480,974	62,500	67.59	Wed 26
Thu 27							3.08%		0.00	0	0.00		18.07					0	451,538	57,901	52.57	Thu 27
Fri 28				3.31%	20.18%	0.18%	3.80%	0.18%	45.06	83,290	11.50	3.92	35.14					0	500,373	82,000	75.10	Fri 28
Sat 29				2.96%	20.90%	0.06%	1.91%	0.06%	22.53	38,600	4.76	4.73	34.31					0	131,800	96,000	15.02	Sat 29
Sun 30				3.10%	20.44%	0.11%	4.81%	0.11%	15.02	36,590	4.73	3.18						0	155,500	42,500	37.55	Sun 30
Total:					430.94%				1,164.05	1,296,236	162.95	7.14	832.84	0.00	0.00	0.00	0.00	0	10,884,966	2,196,990	1441.92	
Ave:	80.43%	62.28%	59.54%	3.01%	19.59%	0.14%	4.16%	0.14%	38.80	43,208	5.43	6.94	43.83	0.00	0.00	0.00	0.00	0	362,832	73,233	48.06	
Min:	77.78%	60.99%	49.83%	2.61%	3.37%	0.06%	1.91%	0.06%	0.00	0	0.00	0.00	10.86									
Max:	83.18%	63.72%	66.58%	3.43%	24.44%	0.19%	8.11%	0.19%	120.16	112,250	14.37	20.46	91.44									

Total Dry Tons, Cake =	832.84	x	19.59	x	0.01 =	163.15 dry tons

June 2013 Solids Operations Report

10 PM - 6 AM

Date	BFP % Solids (I-3750-85)			Belt Filter Press					Total	Dry tons	Filtrate	GBT % Solids (I-3750-85)		Gravity Belt Thickener				Thickened	Polymer	Total	Dry tons	Filtrate
	Feed	Cake	Filtrate	Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	BFP Hours	per hour	Solids (dry tons)	Thickened	Filtrate	Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Solids (dry tons)	Dosage (lbs/dry ton)	GBT Hours	per hour	Solids (dry tons)
Sat 1	2.61%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 2	2.82%	18.76%	0.12%	33,241	37.55	3.63	10.34	96.03%	12.00	0.30	0.17	4.54%	0.12%	206,960	50,000	75.84%	37.55	9.47	3.97	12.00	0.79	0.2502
Mon 3	2.85%	19.00%	0.10%	17,150	22.53	2.04	11.05	97.00%	6.00	0.34	0.07	5.23%	0.10%	262,315	54,600	79.19%	37.55	11.91	3.15	16.00	0.74	0.227682
Tue 4	2.63%	19.99%	0.13%	54,875	60.08	6.02	9.98	95.68%	16.00	0.38	0.30	8.11%	0.13%	269,958	45,000	83.33%	30.04	15.22	1.97	16.00	0.95	0.243945
Wed 5	2.80%	20.75%	0.19%	54,650	67.59	6.38	10.59	94.08%	16.00	0.40	0.43	6.45%	0.19%	273,108	51,400	81.18%	37.55	13.82	2.72	16.00	0.86	0.407242
Thu 6	2.77%	19.30%	0.14%	48,625	60.08	5.62	10.70	95.64%	16.00	0.35	0.28	6.04%	0.14%	245,659	46,200	81.19%	45.06	11.64	3.87	16.00	0.73	0.269716
Fri 7	2.80%	19.41%	0.12%	34,250	45.06	4.00	11.27	96.31%	14.00	0.29	0.17	3.09%	0.12%	259,083	45,400	82.48%	37.55	5.85	6.42	16.00	0.37	0.227182
Sat 8	3.01%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 9	2.87%	19.89%	0.17%	32,950	37.55	3.94	9.52	94.89%	14.00	0.28	0.23	4.98%	0.17%	206,896	55,399	73.22%	37.55	11.50	3.26	12.00	0.96	0.392724
Mon 10	2.98%	22.26%	0.11%	43,375	45.06	5.39	8.36	96.79%	14.00	0.39	0.20	3.30%	0.11%	236,757	49,401	79.13%	45.06	6.80	6.63	16.00	0.42	0.226602
Tue 11	3.07%	21.73%	0.14%	53,650	22.53	6.87	3.28	96.06%	10.00	0.69	0.31	3.12%	0.14%	263,161	45,301	82.79%	37.55	5.89	6.37	16.00	0.37	0.264467
Wed 12	3.34%	20.87%	0.13%	44,750	37.55	6.23	6.02	96.71%	12.00	0.52	0.24	3.76%	0.13%	264,880	47,498	82.07%	37.55	7.45	5.04	16.00	0.47	0.257487
Thu 13	3.02%	20.80%	0.16%	9,750	7.51	1.23	6.12	95.44%	4.00	0.31	0.07	5.38%	0.16%	256,216	44,300	82.71%	37.55	9.94	3.78	16.00	0.62	0.29557
Fri 14	0.00%		0.00%	0	0.00	0.00			0.00			4.49%		263,756	47,599	81.95%	30.04	8.91	3.37	16.00	0.56	0
Sat 15	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Sun 16	0.00%		0.00%	0	0.00	0.00			0.00			4.29%		219,209	46,799	78.65%	37.55	8.37	4.49	12.00	0.70	0
Mon 17	0.00%		0.00%	0	0.00	0.00			0.00			3.95%		254,573	51,500	79.77%	37.55	8.48	4.43	16.00	0.53	0
Tue 18	2.88%		0.14%	0	0.00	0.00			0.00		0.00	3.81%	0.14%	266,230	45,700	82.83%	45.06	7.26	6.21	16.00	0.45	0.266797
Wed 19	3.13%	3.37%	0.17%	33,600	0.00	4.39	0.00	99.59%	19.00	0.23	0.24	3.37%	0.17%	268,859	45,600	83.04%	45.06	6.41	7.03	16.00	0.40	0.323258
Thu 20	3.32%	20.29%	0.15%	36,550	22.53	5.06	4.45	96.19%	14.50	0.35	0.23	3.53%	0.15%	263,521	43,100	83.64%	37.55	6.34	5.92	16.00	0.40	0.269591
Fri 21	0.00%		0.00%	0	7.51	0.00			0.00			3.70%		173,200	43,000	75.17%	30.04	6.63	4.53	8.00	0.83	0
Sat 22	3.43%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 23	0.00%		0.00%	0	0.00	0.00			8.00	0.00		3.83%		239,686	56,301	76.51%	37.55	8.99	4.18	16.00	0.56	0
Mon 24	3.34%	20.47%	0.15%	42,600	22.53	5.93	3.80	96.21%	16.00	0.37	0.27	3.67%	0.15%	255,431	53,700	78.98%	45.06	8.22	5.48	16.00	0.51	0.335894
Tue 25	0.00%		0.00%	2,900	0.00	0.00			4.50	0.00		3.69%		267,778	42,000	84.32%	37.55	6.46	5.81	16.00	0.40	0
Wed 26	3.40%	20.31%	0.19%	41,990	22.53	5.95	3.78	95.30%	24.00	0.25	0.33	5.29%	0.19%	246,597	39,701	83.90%	37.55	8.76	4.29	16.00	0.55	0.314551
Thu 27	0.00%		0.00%	0	0.00	0.00			0.00			3.08%		271,404	39,601	85.41%	37.55	5.09	7.38	16.00	0.32	0
Fri 28	3.31%	20.18%	0.18%	41,990	22.53	5.80	3.89	95.41%	16.00	0.36	0.32	3.80%	0.18%	252,632	51,500	79.61%	45.06	8.16	5.52	16.00	0.51	0.386559
Sat 29	2.96%		0.06%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 30	3.10%	20.44%	0.11%	36,590	15.02	4.73	3.18	96.97%	16.00	0.30	0.17	4.81%	0.11%	155,500	42,500	72.67%	37.55	8.52	4.40	16.00	0.53	0.194948
Total =				663,486	555.74	83.20	6.68	96.14%	252.00	6.09	4.03			6,143,371	1,183,100	80.74%	961.28	216.10	4.45	380.00	14.53	5.15
Average =	2.21%	19.28%	0.10%	22,116	18.52	2.77	6.84	96.14%	6.40	0.32	0.18	4.37%	0.14%	204,779	39,437	80.38%	32.04	8.64	4.81	12.67	0.56	0.21
Minimum =	0.00%	3.37%	0.00%	0	0.00	0.00	0.00	94.08%	0.00	0.00	0.00	3.08%	0.10%	0	0	72.67%	0.00	5.09	1.97	0.00	0.32	0.00
Maximum =	3.43%	22.26%	0.19%	54,875	67.59	6.87	11.27	99.59%	24.00	0.69	0.43	8.11%	0.19%	273,108	56,301	85.41%	45.06	15.22	7.38	16.00	0.96	0.41

(%feed)(%cake - %filtrate)

June 2013 Solids Operations Report

10 PM - 6 AM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Sat 1																										
Sun 2	8	2.60%	18.15%	0.15%	4.15%	2.90%	17.90%	0.16%	4.00%	0	0	15741	17500	3	2	84,100	122,860	50,000	4	1	0.00	0.00	6.00	6.00	6.00	6.00
Mon 3	8	2.50%	17.90%	0.15%	4.07%				4.30%	0	0	9250	7900	2	1	97,300	165,015	54,600	3	2	0.00	0.00	3.00	3.00	8.00	8.00
Tue 4	8	2.45%	18.60%	0.14%	4.05%	2.45%	18.10%	0.15%	3.80%	0	0	35975	18900	3	5	97,800	172,158	45,000	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Wed 5	8	3.00%	18.25%	0.15%	4.05%	2.45%	19.45%	0.15%	4.05%	0	0	35750	18900	3	6	100,600	172,508	51,400	4	1	0.00	0.00	8.00	8.00	8.00	8.00
Thu 6	8	2.60%	18.90%	0.15%	4.05%	2.70%	19.45%	0.15%	4.10%	0	0	31825	16800	3	5	91,900	153,759	46,200	4	2	0.00	0.00	8.00	8.00	8.00	8.00
Fri 7	8	2.60%	17.75%	0.15%	4.00%	2.75%	18.55%	0.15%	4.00%	0	0	17550	16700	3	3	97,200	161,883	45,400	4	1	0.00	0.00	7.00	7.00	8.00	8.00
Sat 8																										
Sun 9	8	2.90%	19.10%	0.15%	4.05%	2.70%	19.10%	0.15%	4.00%	0	0	16650	16300	3	2	77,600	129,296	55,399	4	1	0.00	0.00	7.00	7.00	8.00	6.00
Mon 10	8	3.05%	18.75%	0.16%	3.95%	2.70%	18.70%	0.17%	4.15%	0	0	12875	30500	2	4	88,999	147,758	49,401	4	2	0.00	0.00	6.00	8.00	8.00	8.00
Tue 11	8	3.20%	18.75%	0.14%	4.04%	2.90%	18.90%	0.14%	3.90%	0	0	17650	36000	1	2	94,199	168,962	45,301	3	2	0.00	0.00	5.00	5.00	8.00	8.00
Wed 12	8	3.20%	19.20%	0.15%	4.05%	3.10%	20.40%	0.14%	3.90%	0	0	18250	26500	1	4	96,500	168,380	47,498	1	4	0.00	0.00	6.00	6.00	8.00	8.00
Thu 13	8	2.70%	19.10%	0.16%	4.04%	2.95%	21.45%	0.15%	3.95%	0	0	9750	0	1	0	88,800	167,418	44,300	3	2	0.00	0.00	4.00	0.00	8.00	8.00
Fri 14	8				4.10%				4.15%	0	0	0	0	0	0	91,601	172,155	47,599	3	1	0.00	0.00	0.00	0.00	8.00	8.00
Sat 15																										
Sun 16	8				4.15%				4.00%							71,500	147,709	46,799	3	2	0.00	0.00	0.00	0.00	6.00	6.00
Mon 17	8				4.10%				3.80%							82,600	171,973	51,500	4	1	0.00	0.00	0.00	0.00	8.00	8.00
Tue 18	8				4.05%				3.95%	0	0	0	0	0	0	92,000	174,230	45,700	4	2	0.00	0.00	0.00	0.00	8.00	8.00
Wed 19	8	3.15%	20.55%	0.16%	3.95%	3.60%	20.90%	0.14%	3.85%	0	0	9500	24100	0	0	87,300	181,559	45,600	4	2	7.50	4.00	0.00	7.50	8.00	8.00
Thu 20	8	3.20%	20.30%	0.16%	3.90%	3.40%	20.45%	0.15%	4.05%	0	0	5250	31300	1	2	80,000	183,521	43,100	4	1	2.00	4.50	0.00	8.00	8.00	8.00
Fri 21	8				4.10%				4.30%	0	0	0	0	1	0	173,200	0	43,000	3	1	0.00	0.00	0.00	0.00	8.00	0.00
Sat 22																										
Sun 23	8				3.80%				3.85%	0	0	0	0	0	0	74,300	165,386	56,301	3	2	0.00	8.00	0.00	0.00	8.00	8.00
Mon 24	8	3.30%	19.85%	0.16%	3.90%	3.25%	19.75%	0.14%	3.85%	0	0	22000	20600	2	1	81,600	173,831	53,700	4	2	8.00	0.00	0.00	8.00	8.00	8.00
Tue 25	8				3.80%				3.75%	0	0	0	2900	0	0	91,200	176,578	42,000	3	2	0.00	0.00	0.00	4.50	8.00	8.00
Wed 26	8	3.60%	19.40%	0.15%	3.95%	3.10%	19.75%	0.15%	3.65%	0	0	21990	20000	2	1	82,000	164,597	39,701	4	1	8.00	0.00	8.00	8.00	8.00	8.00
Thu 27	8				3.85%				3.95%	0	0	0	0	0	0	88,799	182,605	39,601	3	2	0.00	0.00	0.00	0.00	8.00	8.00
Fri 28	8	3.50%	19.70%	0.16%	3.65%	3.20%	19.75%	0.14%	3.55%	0	0	21990	20000	2	1	77,000	175,632	51,500	4	2	8.00	0.00	0.00	8.00	8.00	8.00
Sat 29																										
Sun 30	8	2.95%	19.55%	0.16%	3.90%	3.10%	18.95%	0.15%	4.10%	0	0	18990	17600	1	1	155,500	0	42,500	3	2	8.00	0.00	0.00	8.00	8.00	8.00
	200	2.97%	19.05%	0.15%	3.99%	2.95%	19.47%	0.15%	3.96%	0	0	320986	342500	34	40	2,343,598	3,799,773	1,183,100	86	42	41.50	16.50	76.00	118.00	194.00	186.00
	Min:	2.45%	17.75%	0.14%	3.65%	2.45%	17.90%	0.14%	3.55%																	
	Max:	3.60%	20.55%	0.16%	4.15%	3.60%	21.45%	0.17%	4.30%	0	0	35975	36000	3	6	173,200	183,521	56,301	4	4	8.00	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

June 2013 Solids Operations Report

6 AM - 2 PM

Date	% Solids (I-3750-85) Feed	Cake	Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids (I-3750-85) Thickened	Filtrate	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Sat 1	2.61%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 2	2.62%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 3	2.85%	19.00%	0.10%	69,800	75.10	8.30	9.05	97.00%	9.00	0.92	0.29	5.23%	0.10%	234,654	26,700	88.62%	37.55	5.82	6.45	12.00	0.49	0.98
Tue 4	2.63%	19.99%	0.13%	49,300	45.06	5.41	8.33	95.68%	8.00	0.68	0.27	8.11%	0.13%	195,257	21,800	88.84%	22.53	7.37	3.06	10.00	0.74	1.06
Wed 5	2.80%	20.75%	0.19%	46,600	52.57	5.44	9.66	94.08%	8.00	0.68	0.37	6.45%	0.19%	151,841	18,200	88.01%	15.02	4.90	3.07	8.00	0.61	1.20
Thu 6	2.77%	19.30%	0.14%	30,900	30.04	3.57	8.42	95.64%	7.00	0.51	0.18	6.04%	0.14%	214,400	18,800	91.23%	22.53	4.74	4.76	12.00	0.39	1.25
Fri 7	2.80%	19.41%	0.12%	31,300	37.55	3.65	10.27	96.31%	8.00	0.46	0.16	3.09%	0.12%	186,690	27,400	85.32%	15.02	3.53	4.25	10.00	0.35	0.93
Sat 8	3.01%	20.16%	0.15%	40,950	105.14	5.14	20.46	95.73%	7.00	0.73	0.26	3.68%	0.15%	230,931	135,900	41.15%	30.04	20.85	1.44	14.00	1.49	1.44
Sun 9	2.87%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 10	2.98%	22.26%	0.11%	49,100	30.04	6.10	4.92	96.79%	6.00	1.02	0.23	3.30%	0.11%	236,132	36,799	84.42%	22.53	5.06	4.45	12.00	0.42	1.08
Tue 11	3.07%	21.73%	0.14%	58,600	37.55	7.50	5.01	96.06%	7.00	1.07	0.34	3.12%	0.14%	172,439	127,892	25.83%	7.51	16.64	0.45	10.00	1.66	1.01
Wed 12	3.34%	20.87%	0.13%	21,100	22.53	2.94	7.67	96.71%	0.00		0.11	3.76%	0.13%	176,843	19,000	89.26%	7.51	2.98	2.52	10.00	0.30	0.96
Thu 13	3.02%		0.16%	0	0.00	0.00			0.00		0.00	5.38%	0.16%	185,670	19,800	89.34%	22.53	4.44	5.07	12.00	0.37	1.24
Fri 14	0.00%		0.00%	3,100	15.02	0.00			5.00	0.00		4.49%		245,597	27,701	88.72%	15.02	5.19	2.90	16.00	0.32	0.00
Sat 15	0.00%		0.00%	0	7.51	0.00			0.00			2.74%		221,277	96,800	56.25%	15.02	11.06	1.36	16.00	0.69	0.00
Sun 16	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Mon 17	0.00%		0.00%	0	0.00	0.00			0.00			3.95%		211,494	24,901	88.23%	22.53	4.10	5.49	12.00	0.34	0.00
Tue 18	2.88%	20.21%	0.14%	9,400	0.00	1.13	0.00	95.80%	4.50	0.25	0.05	3.81%	0.14%	188,944	19,300	89.79%	15.02	3.07	4.90	14.00	0.22	1.10
Wed 19	3.13%		0.17%	0	22.53	0.00			13.00	0.00	0.00	3.37%	0.17%	169,638	17,799	89.51%	15.02	2.50	6.00	13.00	0.19	1.20
Thu 20	3.32%	20.29%	0.15%	34,600	7.51	4.79	1.57	96.19%	14.00	0.34	0.22	3.53%	0.15%	158,709	22,801	85.63%	15.02	3.36	4.48	11.00	0.31	0.99
Fri 21	0.00%		0.00%	0	7.51	0.00			0.00			3.70%		141,062	51,100	63.77%	22.53	7.88	2.86	12.50	0.63	0.00
Sat 22	3.43%	24.44%	0.17%	47,100	30.04	6.74	4.46	95.71%	21.00	0.32	0.33	2.66%	0.17%	216,989	89,899	58.57%	30.04	9.97	3.01	16.00	0.62	1.54
Sun 23	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Mon 24	3.34%	20.47%	0.15%	28,800	22.53	4.01	5.62	96.21%	14.00	0.29	0.18	3.67%	0.15%	210,326	21,700	89.68%	22.53	3.32	6.78	16.00	0.21	1.32
Tue 25	0.00%		0.00%	0	0.00	0.00			0.00			3.69%		198,650	21,999	88.93%	15.02	3.39	4.44	16.00	0.21	0.00
Wed 26	3.40%	20.31%	0.19%	32,200	15.02	4.57	3.29	95.30%	16.00	0.29	0.26	5.29%	0.19%	234,377	22,799	90.27%	30.04	5.03	5.97	16.00	0.31	1.86
Thu 27	0.00%		0.00%	0	0.00	0.00			0.00			3.08%		180,134	18,300	89.84%	15.02	2.35	6.39	16.00	0.15	0.00
Fri 28	3.31%	20.18%	0.18%	41,300	22.53	5.70	3.95	95.41%	16.00	0.36	0.31	3.80%	0.18%	247,741	30,500	87.69%	30.04	4.83	6.22	16.00	0.30	1.86
Sat 29	2.96%	20.90%	0.06%	38,600	22.53	4.76	4.73	98.26%	16.00	0.30	0.10	1.91%	0.06%	131,800	96,000	27.16%	15.02	7.65	1.96	8.00	0.96	0.33
Sun 30	3.10%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				632,750	608.31	79.75	7.63	96.06%	179.50	8.21	3.65			4,741,595	1,013,890	78.62%	480.64	150.03	3.20	308.50	12.29	21.36
Average =	2.21%	20.64%	0.10%	21,092	20.28	2.66	6.71	96.06%	5.98	0.48	0.17	4.08%	0.14%	158,053	33,796	77.75%	16.02	6.25	4.09	10.28	0.51	0.89
Minimum =	0.00%	19.00%	0.00%	0	0.00	0.00	0.00	94.08%	0.00	0.00	0.00	1.91%	0.06%	0	0	25.83%	0.00	2.35	0.45	0.00	0.15	0.00
Maximum =	3.43%	24.44%	0.19%	69,800	105.14	8.30	20.46	98.26%	21.00	1.07	0.37	8.11%	0.19%	247,741	135,900	91.23%	37.55	20.85	6.78	16.00	1.66	1.86

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

June 2013 Solids Operations Report

6 AM - 2 PM

Date	Hours of Operation	Mix Tank Level	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd Sludge	GBT Polymer		Hours of Operation					
			1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Sat 1																											
Sun 2																											
Mon 3	8	8.89	2.75%	20.15%	0.12%	5.85%	2.50%	17.75%	0.13%	6.06%	0	0	35,700	34,100	3	7	91,100	143,554	26,700	3	2	0.00	0.00	2.00	7.00	6.00	6.00
Tue 4	8			20.40%	0.14%	6.00%	3.00%	19.45%	0.12%	5.10%	0	0	31,200	18,100	2	4	70,600	124,657	21,800	2	1	0.00	0.00	1.00	7.00	5.00	5.00
Wed 5	8	7.51	2.50%	19.95%	0.14%	6.95%	2.50%	19.75%	0.14%		0	0	28,800	17,800	3	4	54,599	97,242	18,200	1	1	0.00	0.00	0.00	8.00	4.00	4.00
Thu 6	8	8.28	2.65%	17.40%	0.14%	6.75%	2.35%	19.05%	0.17%	5.90%	0	0	16,200	14,700	2	2	81,701	132,699	18,800	2	1	0.00	0.00	1.00	6.00	6.00	6.00
Fri 7	8	7.83	2.65%	19.85%	0.14%	3.10%	2.50%	16.55%	0.14%	3.00%	0	0	13,500	17,800	3	2	73,600	113,090	27,400	1	1	0.00	0.00	1.00	7.00	5.00	5.00
Sat 8	8	10.45	3.05%	19.65%	0.14%	4.05%	3.15%	19.45%	0.14%	3.80%	0	0	17,650	23,300	7	7	85,600	145,331	135,900	2	2	0.00	0.00	1.00	6.00	7.00	7.00
Sun 9		8.51	3.05%																								
Mon 10	8	8.51	3.05%	21.85%	0.14%	3.80%	3.10%	22.25%	0.14%	3.55%	0	0	16,200	32,900	1	3	91,601	144,531	36,799	2	1	0.00	0.00	1.00	5.00	6.00	6.00
Tue 11	8	7.21	2.95%	21.50%	0.14%	3.50%	2.75%	20.85%	0.13%	2.75%	0	0	18,000	40,600	2	3	61,000	111,439	127,892	1	0	0.00	0.00	0.00	7.00	5.00	5.00
Wed 12	8	7.34	3.00%	20.00%	0.15%	2.55%	2.80%	19.20%	0.15%	3.90%	0	0	19,500	1,600	1	2	67,401	109,442	19,000	1	0	0.00	0.00	0.00	0.00	5.00	5.00
Thu 13	8	7.99				4.75%				5.00%	0	0	0	0	0	0	64,499	121,171	19,800	2	1	0.00	0.00	0.00	0.00	6.00	6.00
Fri 14	8	7.65				4.30%				4.35%	0	0	0	3,100	1	1	87,499	158,096	27,701	1	1	0.00	0.00	0.00	5.00	8.00	8.00
Sat 15	8	9.09				3.05%				3.40%	0	0	0	0	0	1	78,101	143,176	96,800	1	1	0.00	0.00	0.00	0.00	8.00	8.00
Sun 16																											
Mon 17						1.01%				3.70%	0	0	0	0	0	0	70,600	140,894	24,901	1	2	0.00	0.00	0.00	0.00	6.00	6.00
Tue 18	8	7.61				3.95%				3.65%	0	0	0	9,400	0	0	68,200	120,744	19,300	1	1	0.00	0.00	0.00	4.50	7.00	7.00
Wed 19	8	7.31				4.05%				4.00%	0	0	0	0	1	2	54,200	115,438	17,799	1	1	0.00	6.50	0.00	6.50	6.50	6.50
Thu 20	8	8.86	3.30%	19.50%	0.14%	2.35%	3.65%	20.15%	0.12%	5.00%	0	0	9,000	25,600	0	1	87,700	71,009	22,801	1	1	2.00	6.00	0.00	6.00	8.00	3.00
Fri 21	8	9.91				2.85%				3.35%	0	0	0	0	1	0	71,599	69,463	51,100	2	1	0.00	0.00	0.00	0.00	8.00	4.50
Sat 22	8	8.65	3.50%	23.65%	0.14%	2.70%	3.45%	23.35%	0.14%	2.75%	0	0	16,500	30,600	2	2	73,901	143,088	89,899	3	1	7.00	7.00	0.00	7.00	8.00	8.00
Sun 23																											
Mon 24	8	9.01	3.30%	19.85%	0.14%	2.80%	3.35%	19.25%	0.14%	4.10%	0	0	15,000	13,800	2	1	72,699	137,627	21,700	2	1	7.00	0.00	0.00	7.00	8.00	8.00
Tue 25	8	8.10				3.05%				3.60%	0	0	0	0	0	0	68,401	130,249	21,999	1	1	0.00	0.00	0.00	0.00	8.00	8.00
Wed 26	8	8.71	3.70%	19.40%	0.15%	3.60%	3.40%	19.35%	0.14%	4.45%	0	0	16,500	15,700	1	1	83,100	151,277	22,799	2	2	8.00	0.00	0.00	8.00	8.00	8.00
Thu 27	8	7.67				2.85%				3.40%	0	0	0	0	0	0	67,401	112,733	18,300	2	0	0.00	0.00	0.00	0.00	8.00	8.00
Fri 28	8	9.46	3.15%	18.40%	0.15%	2.80%	3.45%	19.30%	0.14%	3.95%	0	0	21,000	20,300	2	1	72,000	175,741	30,500	3	1	8.00	0.00	0.00	8.00	8.00	8.00
Sat 29	8	8.45	3.45%	19.55%	0.14%	2.00%	3.20%	20.65%	0.14%	2.75%	0	0	19,500	19,100	2	1	131,800	0	96,000	0	2	8.00	0.00	0.00	8.00	8.00	0.00
Sun 30																											
	184		3.07%	20.07%	0.14%	3.69%	3.01%	19.76%	0.14%	3.98%	0	0	294,250	338,500	36	45	1,828,902	2,912,693	1,013,890	38	26	40.00	19.50	7.00	113.00	162.50	146.00
		7.21	2.50%	17.40%	0.12%	1.01%	2.35%	16.55%	0.12%	2.75%																	
		10.45	3.70%	23.65%	0.15%	6.95%	3.65%	23.35%	0.17%	6.06%	0	0	35,700	40,600	7	7	131,800	175,741	135,900	3	2	8.00	7.00	2.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

June 2013 Solids Operations Report

2 PM - 10 PM

Date	% Solids Feed (I-3750-85)	% Solids Cake (I-3750-85)	% Solids Filtrate (I-3750-85)	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened (I-3750-85)	GBT % Solids Filtrate (I-3750-85)	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Sat 1	2.61%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 2	2.62%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 3	2.85%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 4	2.63%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 5	2.80%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 6	2.77%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 7	2.80%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 8	3.01%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 9	2.87%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 10	2.98%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 11	3.07%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 12	3.34%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 13	3.02%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 14	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Sat 15	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Sun 16	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Mon 17	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Tue 18	2.88%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 19	3.13%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 20	3.32%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 21	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Sat 22	3.43%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 23	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Mon 24	3.34%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 25	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Wed 26	3.40%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 27	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Fri 28	3.31%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 29	2.96%		0.06%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 30	3.10%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				0	0.00	0.00			0.00	0.00	0.00			0	0		0.00	0.00		0.00	0.00	0.00
Average =	2.21%		0.10%	0	0.00	0.00	#DIV/0!	#DIV/0!	0.00	#DIV/0!	0.00			0	0	#DIV/0!	0.00	#DIV/0!	#DIV/0!	0.00	#DIV/0!	#DIV/0!
Minimum =	0.00%	0.00%	0.00%	0	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00%	0.00%	0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Maximum =	3.43%	0.00%	0.19%	0	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00%	0.00%	0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

June 2013 Solids Operations Report

2 PM - 10 PM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thickn	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Sat 1																										
Sun 2																										
Mon 3																										
Tue 4																										
Wed 5																										
Thu 6																										
Fri 7																										
Sat 8																										
Sun 9																										
Mon 10																										
Tue 11																										
Wed 12																										
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Mon 24																										
Tue 25																										
Wed 26																										
Thu 27																										
Fri 28																										
Sat 29																										
Sun 30																										
	0									0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	Min:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%																	
	Max:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00

Numbers in Red Font are Lab Data

June 2013 Sludge Inventory Report

Date	Pumped from PSTs to Pri. Dig. (gal)	Pumped from PSTs to Mix Tank (gal)	Pumped from PSTs Total (gal)	Thickened Sludge to Pri. Dig. (gal)	Secondary Sludge to Mix Tank (gal)	Dig 1 (in.)	Dig 2 (in.)	Dig 3 (in.)	Mix Tank (in.)	Dig 4 (in.)	Dig 5 (in.)	Pri.Dig.Sldg. Inventory (gal)	Sec.Dig.Sldg. Inventory (gal)	Transfer (calculated) (gal)	Supernated (gal)	Pressed (gal)	Mix Tank Overflow Potential Calculated (gal)
									95			481,000	30,250				
Sat 1	0	108,032	108,032	0	180,000	9	35	39	0	22	0	228,250	60,500	252,750	0	0	0
Sun 2	0	108,435	108,435	50,000	303,000	28	41	21	0	29	0	247,500	79,750	30,750	0	33,241	0
Mon 3	0	107,268	107,268	81,300	334,000	12	28	41	107	34	0	479,550	93,500	0	0	86,950	0
Tue 4	0	107,815	107,815	66,800	345,000	31	21	22	0	36	0	203,500	99,000	342,850	0	104,175	0
Wed 5	0	107,066	107,066	69,600	314,000	15	15	38	90	15	0	403,000	41,250	0	0	101,250	0
Thu 6	0	106,842	106,842	65,000	337,000	15	42	19	99	6	0	446,600	16,500	21,400	0	79,525	0
Fri 7	0	132,956	132,956	72,800	92,000	42	17	25	94	19	0	456,600	52,250	62,800	0	65,550	0
Sat 8	0	138,296	138,296	135,900	168,000	20	41	27	125	37	0	542,000	101,750	50,500	0	40,950	0
Sun 9	0	108,224	108,224	55,399	250,000	50	24	28	102	49	0	525,300	134,750	72,099	0	32,950	0
Mon 10	0	105,240	105,240	86,200	339,000	16	45	40	102	29	0	522,550	79,750	88,950	0	92,475	0
Tue 11	0	103,724	103,724	173,193	336,000	42	36	22	87	31	0	483,800	85,250	211,943	0	112,250	0
Wed 12	0	108,088	108,088	66,498	346,000	13	37	25	88	6	0	417,450	16,500	132,848	0	65,850	0
Thu 13	0	103,276	103,276	64,100	347,000	26	18	43	96	11	0	469,650	30,250	11,900	0	9,750	0
Fri 14	0	104,952	104,952	75,300	167,000	11	31	19	92	12	0	388,550	33,000	156,400	0	3,100	0
Sat 15	0	108,882	108,882	96,800	186,000	31	38	19	109	12	0	503,600	33,000	0	0	0	0
Sun 16	0	108,042	108,042	46,799	286,000	18	17	14	0	12	0	134,750	33,000	415,649	0	0	0
Mon 17	0	107,308	107,308	76,401	342,000	18	15	36	0	12	0	189,750	33,000	21,401	0	0	0
Tue 18	0	107,830	107,830	65,000	336,000	16	21	20	91	32	0	375,150	88,000	0	0	9,400	0
Wed 19	0	107,612	107,612	63,399	385,000	15	14	19	88	43	0	343,200	118,250	95,349	0	33,600	0
Thu 20	0	107,136	107,136	65,901	158,000	18	12	36	106	14	0	435,900	38,500	0	0	71,150	0
Fri 21	0	107,669	107,669	94,100	68,000	54	24	22	119	14	0	560,600	38,500	0	0	0	0
Sat 22	0	108,120	108,120	89,899	208,000	16	36	33	104	20	0	483,350	55,000	167,149	0	47,100	93,531
Sun 23	0	108,279	108,279	56,301	308,000	53	24	18	0	20	0	261,250	55,000	278,401	0	0	0
Mon 24	0	106,507	106,507	75,400	354,000	18	42	27	108	10	0	498,450	27,500	0	0	71,400	0
Tue 25	0	106,910	106,910	63,999	356,000	24	18	34	97	10	0	441,800	27,500	120,649	0	2,900	0
Wed 26	0	106,912	106,912	62,500	369,000	21	37	17	105	10	0	458,250	27,500	46,050	0	74,190	0
Thu 27	0	112,955	112,955	57,901	369,000	41	18	24	92	10	6	449,050	44,000	67,101	0	0	0
Fri 28	0	143,557	143,557	82,000	103,000	17	33	19	114	24	19	463,350	118,250	67,700	0	83,290	0
Sat 29	0	106,135	106,135	96,000	59,000	45	23	19	101	15	15	481,650	82,500	77,700	0	38,600	0
Sun 30	0	105,269	105,269	42,500	203,000	21	19	19	0	28	29	162,250	156,750	361,900	0	36,590	0
	0	3,309,337	3,309,337	2,196,990	7,948,000									3,154,239	0	1,296,236	93,531
Ave:	0	110,311	110,311	73,233	264,933							401,888	63,342	105,141	0	43,208	3,118
Min:	0	103,276	103,276	0	59,000							134,750	16,500	0	0	0	0
Max:	0	143,557	143,557	173,193	385,000							560,600	156,750	415,649	0	112,250	93,531

Transfer = (change in Primary Sludge Inventory) + (sludge pumped from PSTs to Pri. Dig.) + (Thickened Sludge pumped to Pri. Dig.)

Mix Tank Overflow Potential = (change in Mix Tank level) + gallons from PSTs + secondary sludge (350 gpm) - GBT feed

June 2013 Disposal Site Report

Date	Sludge Conestoga (Tons)	Sludge Rolling Hills (Tons)	Sludge Modern (Tons)	Sludge Pioneer Crossing (Tons)	6th St. (Tons)	Grit (Tons)	Tank Cleanings (Tons)	Scum (Tons)	San Swr Soil (Tons)	Exeter Sludge (Gallons)	Exeter % Solids	Valley Forge Sludge (Gallons)	Valley Forge % Solids	Total Cans Hauled Biosolids
Sat 1				18.47										
Sun 2														
Mon 3				91.44										
Tue 4				37.78										
Wed 5				67.83										
Thu 6				37.29										
Fri 7				52.21										
Sat 8														
Sun 9														
Mon 10				73.06										
Tue 11				88.77										
Wed 12				36.02										
Thu 13				18.00										
Fri 14														
Sat 15														
Sun 16														
Mon 17														
Tue 18														
Wed 19				16.21										
Thu 20				52.72										
Fri 21														
Sat 22														
Sun 23														
Mon 24				68.85										
Tue 25				18.04										
Wed 26				34.66										
Thu 27				18.07										
Fri 28				35.14										
Sat 29				34.31										
Sun 30														
Total:	0.00	0.00	0.00	798.87	0.00	0.00	0.00	0.00	0.00	0		0		0
Ave:	0.00	0.00	0.00	44.38	0.00	0.00	0.00	0.00	0.00	0		0		
Min:	0.00	0.00	0.00	16.21	0.00	0.00	0.00	0.00	0.00	0		0		
Max:	0.00	0.00	0.00	91.44	0.00	0.00	0.00	0.00	0.00	0		0		

June 2013 Supernating Data

	Digester#4	Gallons Supernated	%Solids	lbs supernated	Digester#5	Gallons Supernated	%Solids	lbs supernated	Total Gallons Supernated	Total lbs Supernated
Sat 1									0	0
Sun 2									0	0
Mon 3									0	0
Tue 4									0	0
Wed 5									0	0
Thu 6									0	0
Fri 7									0	0
Sat 8									0	0
Sun 9									0	0
Mon 10									0	0
Tue 11									0	0
Wed 12									0	0
Thu 13									0	0
Fri 14									0	0
Sat 15									0	0
Sun 16									0	0
Mon 17									0	0
Tue 18									0	0
Wed 19									0	0
Thu 20									0	0
Fri 21									0	0
Sat 22									0	0
Sun 23									0	0
Mon 24									0	0
Tue 25									0	0
Wed 26									0	0
Thu 27									0	0
Fri 28									0	0
Sat 29									0	0
Sun 30									0	0
TOTAL		0		0		0		0	0	0
AVG.										

June 2013 Laboratory Results

	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	% Solids GBT	% Solids GBT Filtrate	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	P1-4 %TS	P1-4 %VS	Dig 4 %TS	Dig 4 %VS	Dig 5 %TS	Dig 5 %VS
1-Jun	2.61%	17.41%	0.13%	4.52%													
2-Jun	2.62%	18.76%	0.12%	4.54%													
3-Jun	2.85%	19.00%	0.10%	5.23%										2.48%			
4-Jun	2.63%	19.99%	0.13%	8.11%													
5-Jun	2.80%	20.75%	0.19%	6.45%								3.42%	77.78%	2.59%	63.72%		
6-Jun	2.77%	19.30%	0.14%	6.04%													
7-Jun	2.80%	19.41%	0.12%	3.09%										2.75%			
8-Jun	3.01%	20.16%	0.15%	3.68%													
9-Jun	2.87%	19.89%	0.17%	4.98%													
10-Jun	2.98%	22.26%	0.11%	3.30%										3.22%			
11-Jun	3.07%	21.73%	0.14%	3.12%													
12-Jun	3.34%	20.87%	0.13%	3.76%								2.96%	78.02%	3.24%	60.99%		
13-Jun	3.02%	20.80%	0.16%	5.38%													
14-Jun				4.49%										3.03%			
15-Jun				2.74%													
16-Jun				4.29%													
17-Jun				3.95%										3.06%			
18-Jun	2.88%	20.21%	0.14%	3.81%													
19-Jun	3.13%	3.37%	0.17%	3.37%								3.57%	82.73%	2.95%	62.10%		
20-Jun	3.32%	20.29%	0.15%	3.53%													
21-Jun				3.70%										1.63%			
22-Jun	3.43%	24.44%	0.17%	2.66%													
23-Jun				3.83%													
24-Jun	3.34%	20.47%	0.15%	3.67%										3.39%			
25-Jun				3.69%													
26-Jun	3.40%	20.31%	0.19%	5.29%								3.39%	83.18%	3.24%	62.30%	4.25%	48.30%
27-Jun				3.08%													
28-Jun	3.31%	20.18%	0.18%	3.80%										3.25%		4.61%	
29-Jun	2.96%	20.90%	0.06%	1.91%													
30-Jun	3.10%	20.44%	0.11%	4.81%													
Avg	3.01%	19.59%	0.14%	4.16%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.34%	80.43%	2.90%	62.28%	4.43%	48.30%
Min	2.61%	3.37%	0.06%	1.91%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	3.57%	83.18%	3.39%	63.72%	4.61%	48.30%
Max	3.43%	24.44%	0.19%	8.11%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	2.96%	77.78%	1.63%	60.99%	4.25%	48.30%

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: READING CITY
ADDRESS: ENVIRONMENTAL DIVISION
READING, PA 196013690

FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

RECEIVED
EPA REGION III
MAY 20 2013
WATER PROTECTION DIVISION (3WP00)

Form Approved
OMB No. 2040-0004

PERMIT NUMBER	DISCHARGE NUMBER
PA0026549	001-A

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
4/1/2013	4/30/2013

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	58	******		0	DAILY	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.1	******	******		0	7/DAILY	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	6.9	******	7.5		0	DAILY	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1757	2130		******	14	16		0	DAILY	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	1505	******		******	12.0	******		0	DAILY	COMP24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	15.08	19.83		******	******	******	******	0	CONTIN UOUS	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.02	******		0	2/SHIFT	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	(610) 655-6258 AREA Code / NUMBER		5/14/2013 MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NONE

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
31-Mar								736						736								
1-Apr	5,676	27,408	33,084	13,949		47,033	2,205	980	5,261	16,723	21,984	31,802	53,786	1,225	1,192	701	1,905	2,605	1,797	7,086	4,402	2,021
2-Apr	3,398	30,247	33,644	554		34,198	2,772	964	3,058	11,915	14,973	20,268	35,242	1,326	1,435	631	1,888	2,519	1,109	6,587	3,628	2,434
3-Apr	5,916	34,734	40,650	-963		39,687	2,697	1,962	6,810	12,431	19,241	35,598	54,840	1,226	1,458	698	1,974	2,673	1,440	8,256	4,113	2,305
4-Apr	3,553	38,216	41,768	-9,449	769	32,320	2,820	1,410	6,810	33,120	39,930	20,368	60,298	1,058	1,465	805	2,047	2,853	1,839	8,126	4,691	2,233
5-Apr	2,376	32,276	34,652	-4,835		29,817	2,061	1,031	1,318	9,055	10,373	14,548	24,921	1,145	633	546	1,928	2,474	930	3,701	3,404	2,061
6-Apr	5,266	30,142	35,408	-1,106		34,302	1,921	791	5,651	25,000	30,652	8,224	38,876	1,017	575	647	1,950	2,598	890	5,529	3,487	1,921
7-Apr	4,743	27,794	32,537	12,054	698	44,591	2,148	1,074	2,982	13,536	16,517	14,696	31,213	1,074	1,173	699	1,931	2,630	1,042	4,491	3,673	1,814
8-Apr	3,797	30,562	34,359	-4,280		30,079	1,921	904	2,619	13,971	16,590	21,322	37,911	1,017	1,760	610	1,668	2,278	2,841	7,906	5,119	1,616
9-Apr	662	34,738	35,400	1,410		36,809	2,893	1,509	437	84,915	85,352	-44,862	40,490	2,012	1,557	151	2,075	2,226	1,158	5,395	3,384	2,163
10-Apr	2,669	33,537	36,206	2,475		38,681	3,767	1,953	1,601	50,306	51,907	-15,290	36,618	2,372	2,035	694	2,423	3,117	2,208	7,918	5,325	2,581
11-Apr	3,146	34,127	37,273	7,983	1,616	45,256	2,515	1,258	2,571	9,174	11,745	27,556	39,301	1,383	2,748	626	1,798	2,425	1,363	8,001	3,787	1,547
12-Apr	7,082	44,720	51,802	4,037		55,839	2,890	1,825	6,342	40,144	46,486	10,170	56,656	2,282	1,176	612	1,654	2,265	1,848	4,212	4,113	2,191
13-Apr	6,645	40,382	47,028	-2,405		44,622	2,424	1,212	7,753	20,101	27,854	6,434	34,289	1,454	684	756	1,840	2,596	622	4,721	3,218	1,017
14-Apr	8,609	36,364	44,973	24,004	633	68,978	2,652	1,515	9,720	21,632	31,352	20,684	52,036	1,641	753	800	1,865	2,665	518	4,426	3,183	1,037
15-Apr	7,489	42,530	50,019	-5,396		44,622	2,646	1,684	8,162	26,423	34,585	4,401	38,986	1,684	1,624	800	2,145	2,945	1,835	9,005	4,779	1,347
16-Apr	6,583	40,256	46,839	10,946		57,785	2,952	1,968	7,191	14,455	21,646	28,591	50,237	2,091	956	653	1,994	2,647	1,150	4,341	3,797	2,042
17-Apr	6,007	35,962	41,969	11,061		53,030	2,936	1,409	6,929	19,599	26,528	42,764	69,292	1,879	313	679	1,924	2,603	1,262	5,121	3,865	1,620
18-Apr	6,389	42,726	49,115	-286	622	48,829	3,129	1,825	6,237	30,908	37,145	20,520	57,665	2,086	1,157	644	1,900	2,544	1,328	11,574	3,871	1,655
19-Apr	6,689	34,953	41,642	9,342		50,984	4,300	2,315	1,137	10,952	12,089	54,190	66,279	2,811	513	542	1,911	2,453	996	4,667	3,449	2,282
20-Apr	6,288	32,580	38,869	4,325		43,194	3,000	1,714	1,478	15,037	16,515	20,358	36,873	2,714	570	591	1,764	2,355	502	5,851	2,858	784
21-Apr	5,179	31,689	36,868	10,827	406	47,694	2,418	1,273	4,086	14,565	18,651	37,819	56,470	1,909	577	613	2,076	2,689	1,012	4,720	3,701	733
22-Apr	8,010	48,584	56,594	-269		56,325	2,542	890	10,699	24,548	35,246	26,398	61,645	1,907	1,543	604	2,519	3,122	1,540	8,231	4,662	1,107
23-Apr	10,669	35,654	46,322	-10,360		35,962	2,824	1,284	15,209	31,650	46,860	-12,876	33,984	1,797	719	648	1,357	2,006	853	6,509	2,859	1,296
24-Apr	3,614	30,568	34,182	-11,430		22,752	3,082	1,356	2,998	64,552	67,550	-30,214	37,337	2,465	680	634	2,032	2,666	379	6,772	3,045	1,080
25-Apr	8,144	46,447	54,591	-7,820	412	46,771	4,177	1,910	10,766	36,086	46,852	-6,395	40,457	1,790	337	883	2,555	3,438	-94	4,250	3,344	771
26-Apr	20,952	64,131	85,083	-42,314		42,769	2,207	1,046	41,055	49,345	90,400	-41,389	49,011	1,859	342	607	1,808	2,415	717	5,418	3,133	464
27-Apr	9,099	67,557	76,656	-6,908		69,748	2,382	907	13,622	43,693	57,314	3,286	60,601	1,928		705	2,220	2,925	-101		2,824	480
28-Apr	8,943	50,655	59,599	-28,358	276	31,241	2,465	1,233	9,374	54,861	64,235	-40,958	23,278	1,972	399	741	2,265	3,006	571	6,288	3,577	611
29-Apr	7,352	40,352	47,704	-2,818		44,886	3,473	1,736	8,696	38,046	46,743	7,619	54,362	2,170	881	655	1,825	2,481	1,410	6,325	3,890	1,082
30-Apr	9,277	49,740	59,017	-8,339		50,677	2,126	945	10,015	33,752	43,767	-6,680	37,086	1,417	536	706	2,087	2,794	616	3,041	3,409	866
TOTAL	194,221	1,169,630	1,363,851	-34,370	5,431	1,329,481	82,345	41,882	220,587	870,498	1,091,085	278,956	1,370,040	52,713	29,790	19,684	59,328	79,012	33,582	178,470	112,593	45,163
Week 1	4,418	31,545	35,963	1,458	733	37,421	2,413	1,125	4,556	17,397	21,953	20,787	42,739	1,105	1,133	675	1,946	2,622	1,292	6,254	3,914	2,113
Week 2	4,659	36,347	41,006	4,746	1,124	45,752	2,651	1,391	4,435	34,320	38,755	3,716	42,472	1,656	1,530	607	1,903	2,510	1,508	6,083	4,018	1,736
Week 3	6,375	37,242	43,617	5,831	514	49,448	3,088	1,776	5,031	18,848	23,880	29,806	53,686	2,130	816	646	1,959	2,605	1,155	6,468	3,760	1,495
Week 4	9,919	49,085	59,004	-15,351	344	43,653	2,805	1,238	14,818	43,534	58,351	-14,592	43,759	1,951	670	689	2,108	2,797	552	6,245	3,349	830
Monthly	6,474	38,988	45,462	-1,146	679	44,316	2,745	1,396	7,353	29,017	36,369	9,299	45,668	1,757	1,027	656	1,978	2,634	1,119	6,154	3,753	1,505
Min =	662	27408	32537	-42314	276	22,752	1,921	791	437	9,055	10,373	-44,862	23,278	1,017	313	151	1,357	2,006	-101	3,041	2,824	464
Max =	20952	67557	85083	24004	1616	69,748	4,300	2,315	41,055	84,915	90,400	54,190	69,292	2,811	2,748	883	2,555	3,438	2,841	11,574	5,325	2,581
								4,170						7,130								3,000
								6,255						10,696								

Print Date 5/14/2013

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
31-Mar								
1-Apr								
2-Apr	< 0.00010	< 0.00243	< 0.00010	< 0.00917	0.00010	0.01159	< 0.00010	< 0.01205
3-Apr	0.00010	0.00289	0.00090	0.08227	0.00050	0.06013	< 0.00010	< 0.01226
4-Apr								
5-Apr								
6-Apr								
7-Apr								
8-Apr								
9-Apr	< 0.00010	< 0.00058	< 0.00010	< 0.00965	0.00100	0.10225	< 0.00010	< 0.01258
10-Apr								
11-Apr								
12-Apr								
13-Apr								
14-Apr								
15-Apr								
16-Apr	0.00010	0.00264	< 0.00010	< 0.00915	0.00040	0.04717	< 0.00010	< 0.01230
17-Apr								
18-Apr								
19-Apr								
20-Apr								
21-Apr								
22-Apr								
23-Apr	0.00030	0.00821	0.00020	0.01251	0.00020	0.01798	< 0.00010	< 0.01284
24-Apr	< 0.00010	< 0.00268	0.00010	0.00899	< 0.00010	< 0.01167	< 0.00010	< 0.01233
25-Apr								
26-Apr								
27-Apr								
28-Apr								
29-Apr								
30-Apr	0.00030	0.00791	< 0.00010	< 0.00888	0.00010	0.01152	< 0.00010	< 0.01181
Total	0.00110	0.02732	0.00160	0.14061	0.00240	0.26231	0.00070	0.08616
Week 1	< 0.00010	< 0.00266	< 0.00050	< 0.04572	0.00030	0.03586	< 0.00010	< 0.01216
Week 2	< 0.00010	< 0.00058	< 0.00010	< 0.00965	0.00100	0.10225	< 0.00010	< 0.01258
Week 3	0.00010	0.00264	< 0.00010	< 0.00915	0.00040	0.04717	< 0.00010	< 0.01230
Week 4	< 0.00020	< 0.00544	0.00015	0.01075	< 0.00015	< 0.01482	< 0.00010	< 0.01258
Monthly	< 0.00016	< 0.00390	< 0.00023	< 0.02009	< 0.00034	< 0.03747	< 0.00010	< 0.01231
Min =	< 0.00010	< 0.00058	< 0.00010	< 0.00888	< 0.00010	< 0.01152	< 0.00010	< 0.01181
Max =	0.00030	0.00821	0.00090	0.08227	0.00100	0.10225	< 0.00010	< 0.01284
							0.00023	0.055
							0.00046	

Print Date: 5/14/2013

	April 2013				City of Reading Wastewater Treatment Plant																	Laboratory Process Control Data									
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent						
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
31-Mar																																	
1-Apr	205	190	7.2	25.3	295	180	6.9	20.5	274	182	21.6	116	264	14.9	390	446	36.5	6.8	10.0	15.0	14.46	180	60	31.4	0.3	6.6	58	68	29.8	300	1.8	6.9	32	20
2-Apr	140	126	7.3	26.0	330	130	6.8	20.6	290	129	21.7	5	175	9.6	295	304	31.3	6.7	14.6	14.4	13.90	200	58	32.5	1.1	6.6	63	49	31.5		2.2	7.2	28	36
3-Apr	205	236	7.4	24.2	380	136	7.0	21.6	338	160	22.2	-8	296	12.0	330	456	34.2	6.9	17.8	15.1	14.42	212	64	31.8	0.5	6.4	66	61	28.5	300	3.5	6.7	46	32
4-Apr	120	230	7.4	27.2	420	364	6.8	22.5	346	331	23.7	-78	169	15.2	268	500	38.9	6.6	10.6	15.5	14.46	240	91	33.4	0.3	6.5	64	71	30.9		4.4	6.7	67	62
5-Apr	110	61	7.3	25.3	360	101	6.8	21.5	311	93	22.2	-43	131	8.4	268	224	30.6	6.8	11.7	15.0	13.34	220	64	28.7	0.3	6.5	49	23	29.4	300	2.9	6.8	28	15
6-Apr	205	220	7.6	25.2	340	282	6.9	22.0	310	268	22.7	-10	72	7.8	300	340	30.5	6.8	13.8	15.7	13.71	212	63	27.2	0.4	6.4	52	35	25.7		3.3	6.8		34
7-Apr	175	110	7.6	25.8	308	150	7.0	21.4	277	141	22.4	103	125	8.9	380	266	31.3	6.8	18.0	16.2	14.07	220	74	27.0	0.4	6.4	62	61	26.4		3.7	6.9	30	23
8-Apr	145	100	7.4	23.3	350	160	7.0	19.1	303	146	20.1	-38	188	25.0	265	334	45.1	7.0	16.0	15.7	13.61	230	86	29.4	1.8	6.5	74	89	28.9	320	1.6	6.9	55	50
9-Apr	115	76	7.4	26.3	360	880	7.0	21.5	346	835	21.8	14	-439	11.3	360	396	33.1	6.8	13.8	17.7	12.26	222	79	31.9	0.8	6.7	72	51	30.3		2.8	6.9	51	28
10-Apr	100	60	7.3	26.0	328	492	6.9	23.7	281	403	24.2	19	-119	17.1	300	284	41.3	6.8	15.4	16.1	15.46	212	56	31.6	0.4	6.6	54	33	32.6	360	2.3	6.9	33	17
11-Apr	115	94	7.0	22.9	372	100	7.1	19.6	313	99	20.4	67	231	11.4	380	330	31.8	7.1	12.3	17.0	14.28	225	69	27.7	0.4	6.4	56	46	25.5		1.9	6.7	34	19
12-Apr	220	197	7.4	19.0	430	386	6.8	15.9	380	341	16.6	30	75	13.6	410	416	30.2	6.7	15.5	16.5	16.33	212	65	24.9	0.7	6.2	74	59	23.8	300	2.8	6.8	37	27
13-Apr	240	280	7.6	27.3	450	224	7.1	20.5	400	237	22.1	-20	55	5.3	380	292	27.4	6.8	9.2	16.3	14.08	232	65	23.8	0.8	6.5	62	46	21.7		4.1	6.9	33	23
14-Apr	310	350	7.5	28.8	390	232	6.9	20.0	372	259	22.0	198	171	4.3	570	430	26.3	7.0	12.2	17.0	14.51	288	67	23.5	1.7	6.5	100	101	22.1		4.1	6.9	34	23
15-Apr	278	303	7.4	29.7	470	292	6.8	23.7	426	295	25.1	-46	37	15.6	380	332	40.7	6.9	9.4	16.0	14.08	268	80	35.2	0.8	6.6	80	57	32.7	300	3.9	7.0	36	26
16-Apr	249	272	7.5	24.7	440	158	6.9	21.8	397	184	22.5	93	242	9.7	490	426	32.2	7.2	14.5	16.3	14.14	252	80	33.0	3.9	6.7	68	49	32.5		2.8	7.1	49	33
17-Apr	215	248	7.9	24.3	400	218	6.9	21.4	356	225	22.1	94	363	10.7	450	588	32.8	7.1	13.8	17.3	14.13	225	64	30.7	1.5	6.4	60	45	30.6	320	1.9	7.1	29	30
18-Apr	252	246	7.5	25.4	470	340	7.0	20.9	422	320	21.9	-2	176	11.4	420	496	33.3	6.9	10.3	17.2	13.94	270	58	30.7	1.2	6.5	64	39	30.2		4.0	6.6	33	20
19-Apr	200	34	7.3	16.2	300	94	6.7	16.4	278	81	16.4	62	361	6.6	340	442	23.0	6.9	13.9	16.5	17.98	202	51	22.9	3.8	6.4	58	21	25.8	340	1.5	6.7	56	39
20-Apr	200	47	7.3	18.8	325	150	7.0	17.6	295	125	17.9	33	155	3.8	328	280	21.7	7.2	14.2	15.9	15.79	190	50	19.3	6.9	6.6	44	25	14.9		3.8	6.9	24	10
21-Apr	180	142	7.3	21.3	322	148	6.8	21.1	290	147	21.1	85	297	8.0	375	444	29.1	6.8	14.2	16.2	15.25	210	60	23.1	1.4	6.5	64	64	20.4		3.9	7.0	34	28
22-Apr	280	374	7.4	21.1	380	192	7.0	19.7	362	225	20.0	-2	169	9.8	360	394	29.8	6.4	12.8	16.4	18.76	232	66	25.9	2.2	6.4	60	56	23.8	320	5.4	6.6	29	22
23-Apr	390	556	7.4	23.7	570	506	6.8	21.7	515	521	22.3	-115	-143	9.5	400	378	31.8	6.7	12.9	17.0	10.78	252	65	26.8	1.5	6.4	74	59	25.4		1.4	7.0	35	26
24-Apr	135	112	6.6	23.7	340	718	6.8	22.6	293	579	22.9	-98	-259	3.2	195	320	26.1	7.1	15.8	16.0	13.99	185	67	27.0	1.6	6.5	51	42	25.8	340	2.9	6.9	27	12
25-Apr	295	390	7.5	32.0	520	404	7.0	28.6	467	401	29.4	-67	-55	-0.8	400	346	28.6	6.8	14.1	16.9	14.02	237	64	26.9	1.2	6.5	52	36	26.6		5.0	6.9	31	24
26-Apr	790	1548	7.9	22.9	720	554	6.9	20.3	736	782	20.9	-366	-358	6.2	370	424	27.1	6.5	12.0	16.8	13.86	242	95	27.6	3.0	6.3	72	79	22.1	280	1.7	6.8	41	28
27-Apr	342	512	7.2	26.5	770	498	6.9	25.3	670	501	25.6	-60	29	-0.9	610	530	24.7	6.8	9.3	16.7	13.71	265	100	29.0	0.8	6.5	76	71	24.8		4.4	6.8	40	28
28-Apr	332	348	7.3	27.5	530	574	6.9	23.7	486	524	24.5	-231	-334	4.7	255	190	29.2	6.8	13.3	16.9	14.69	238	64	27.8	0.9	6.5	66	73	23.9		4.8	6.9	50	37
29-Apr	257	304	7.2	22.9	420	396	6.8	19.0	383	375	19.9	-23	61	11.3	360	436	31.2	6.7	17.5	16.8	14.95	228	80	28.0	0.6	6.4	50	40	28.9	300	2.7	6.9	37	27
30-Apr	352	380	7.3	26.8	560	380	6.8	23.5	512	380	24.3	-72	-58	5.3	440	322	29.6	7.0	14.0	16.8	13.81	250	64	27.8	2.6	6.5	58	33	25.1		3.1	6.9	30	18
	Average used to calculate due to no sample data																																
TOTAL	7152	8146	221.3	740.1	12650	9439	206.8	637.7	11432	9288	660.3	-363	2078	279.1	11069	11366	939.4	###	###	488.9	432.77	6851	2069	846.5	43.8	###	1903	1582	800.6	4080.0	94.5	206.1	1168	817
Week 1	166	168	7.4	25.6	348	192	6.9	21.4	307	186	22.4	12	176	11.0	319	362	33.3	6.8	13.8	15.3	14.05	212	68	30.3	0.5	6.5	59	53	28.9	300.0	3.1	6.9	44	32
Week 2	178	165	7.4	24.8	383	353	7.0	20.0	342	331	21.0	39	23	12.6	381	355	33.6	6.9	13.5	16.6	14.36	232	70	27.5	0.9	6.5	70	61	26.4	326.7	2.8	6.9	40	27
Week 3	225	185	7.4	22.9	390	200	6.9	20.4	352	196	21.0	46	233	9.4	398	430	30.4	7.0	12.9	16.5	15.04	231	63	27.8	2.8	6.5	63	43	26.7	320.0	3.1	6.9	37	27
Week 4	366	549	7.3	25.3	547	492	6.9	23.1	504	505	23.6	-134	-136	4.5	370	369	28.2	6.7	12.9	16.7	14.26	236	74	27.3	1.6	6.4	64	59	24.6	313.3	3.7	6.8	36	25
Monthly	238	272	7.4	24.7	422	315	6.9	21.3	381	310	22.0	-12	69	9.3	369	379	31.3	6.8	13.4	16.3	14.43	228	69	28.2	1.5	6.5	63	53	26.7	313.8	3.1	6.9	39	27
Min =	100	34	6.6	16	295	94	6.7	16	274	81	16.4	-366	-439	-0.9	195	190	21.7	6.4	9.2	14.4	10.78	180	50	19.3	0.3	6.2	44	21	14.9	280.0	1.4	6.6	24	10
Max =	790	1548	7.9	32	770	880	7.1	29	736	835	29.4	198	363	25.0	610	588	45.1	7.2	18.0	17.7	18.76	288	100	35.2	6.9	6.7	100	101	32.7	360.0	5.4	7.2	79	62
									%Removal						%Removal																		
									94.30	95.53	45.57				94.11	96.35	61.74																

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	chloride	DO	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	DO	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
24.4	240	125	6.3	6.9	56	10	18	16.6	180	8.0	0.565	6.1	7.0		175.0	1040.0
26.4		130	7.5	7.3	57	16	21	19.8				7.0	7.1		208.0	955.0
23.5	300	135	8.3	7.1	43	13	18	17.1	240			7.8	6.9		174.0	985.0
23.7		160	7.7	7.6	64	14	17	18.6				8.0	6.7	96.0	183.0	1015.0
24.2	300	155	6.3	6.9	35	14	18	19.2	220			7.1	6.9		194.0	1135.0
21.6		125	6.7	7.3	54	14	16	15.3				7.4	6.9		104.0	1000.0
20.9		110	6.5	6.9	40	15	24	14.0				7.1	6.9	150.0	252.0	965.0
23.6	340	130	6.6	6.9	60	14	19	15.2	240	7.3	0.650	7.1	7.1		226.0	1015.0
25.0		130	5.5	6.9	46	18	27	16.2				6.7	7.2		264.0	915.0
27.3	320	140	5.8	6.9	42	16	18	18.2	220			6.6	7.2		302.0	1175.0
20.1		155	5.5	6.7	39	17	18	12.0				6.2	7.1	207.0	352.0	1025.0
20.3	240	140	6.7	6.9	37	16	17	14.0	220			7.2	6.7		349.0	1250.0
16.5		135	8.5	7.1	36	14	14	8.2				8.3	7.1		168.0	1160.0
16.0		125	6.8	6.9	35	16	15	8.0				7.6	6.9	153.0	182.0	1070.0
24.2	180	125	7.5	7.2	41	19	23	12.6	300	8.8	0.830	7.3	7.2		202.0	1120.0
26.1		145	6.5	7.4	ns	19	22	16.6				7.1	7.3		186.0	845.0
23.0	300	145	5.0	7.1	35	13	12	13.5	200			6.8	7.2		86.0	1405.0
22.0		160	6.3	7.0	36	19	17	12.6				6.8	7.1	58.0	108.0	1080.0
19.9	300	135	5.1	7.0	28	18	10	13.5	200			7.0	6.6		150.0	1365.0
11.1		115	6.6	7.1	24	11	6	4.2				6.4	7.2		112.0	1150.0
15.0		130	7.3	7.1	24	13	10	6.1				8.2	7.0	93.0	132.0	1080.0
17.7	300	130	7.4	7.0	29	12	17	8.8	180			8.1	7.3		195.0	1040.0
19.6		140	6.9	6.7	44	16	16	10.4		6.9	0.790	7.8	7.1		101.0	915.0
18.8	300	135	6.8	7.2	32	13	10	8.5	200			7.1	7.1		117.0	1165.0
18.4		165	7.5	7.2	40	15	14	5.6				7.5	7.0	110.0	90.0	1135.0
14.5	280	145	7.7	6.9	32	13	17	4.3	180			7.9	6.9		83.0	1315.0
17.2		140	6.9	7.0	37	14	21	4.1				7.3	7.0		ns	ns
18.2	240	125	6.7	7.2	31	16	18	5.1				7.2	7.3	54.0	78.0	1230.0
20.7		135	6.6	6.9	38	16	15	8.8	160	6.3	0.945	7.0	6.7		101.0	725.0
18.7		135	6.7	7.0	27	18	9	7.2				7.1	7.0		104.0	590.0
618.6	3640.0	4100.0	201.9	211.0	1142	452	497	354.2	2740.0	37.3	3.780	216.5	210.5	921.0	4978.0	30865.0
23.5	280.0	134.3	7.0	7.1	50	14	19	17.2	213.3	8.0	0.565	7.2	6.9	123.0	184.3	1013.6
21.3	300.0	136.4	6.5	6.9	42	16	18	13.1	226.7	7.3	0.650	7.1	7.0	180.0	263.3	1087.1
20.2	260.0	136.4	6.3	7.1	31	16	14	11.3	233.3	8.8	0.830	7.1	7.1	75.5	139.4	1149.3
17.8	280.0	140.0	7.1	7.0	35	14	16	6.7	186.7	6.9	0.790	7.5	7.1	82.0	110.7	1133.3
20.6	280.0	136.7	6.7	7.0	39	15	17	11.8	210.8	7.5	0.756	7.2	7.0	115.1	171.7	1064.3
11.1	180.0	110.0	5.0	6.7	24	10	6	4.1	160.0	6.3	0.565	6.1	6.6	54.0	78.0	590.0
27.3	340.0	165.0	8.5	7.6	64	19	27	19.8	300.0	8.8	0.945	8.3	7.3	207.0	352.0	1405.0

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		April 2013																
		Flow (MGD)											On	Off	On	Off	On	Off
DATE	6th & Canal P.S	18th Ward P.S	19th Ward P.S	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
31-Mar							14.700											
1-Apr	11.140	1.775	0.614	3.320	11.130	14.460	14.690	10.900	5.780	0.817	75.380	39.972						
2-Apr	10.990	1.712	0.614	2.910	10.050	13.900	14.450	10.220	5.560	0.827	73.525	40.000						
3-Apr	10.960	1.904	0.614	3.460	10.830	14.420	14.700	11.550	5.950	1.005	80.097	41.262						
4-Apr	10.910	1.681	0.614	3.550	7.630	14.460	14.090	10.000	6.150	0.960	69.156	42.531						
5-Apr	10.750	1.801	0.614	2.590	13.020	13.340	13.730	10.560	6.030	0.391	79.160	45.202						
6-Apr	10.630	1.879	0.614	3.080	12.170	13.710	13.550	10.690	6.110	0.663	77.972	44.566						
7-Apr	10.820	1.900	0.614	3.250	18.120	14.070	14.310	10.660	6.160	0.558	75.764	43.781						
8-Apr	10.470	1.542	0.614	3.140	16.000	13.610	13.550	10.460	6.030	0.934	76.855	44.306						
9-Apr	11.570	1.995	0.614	0.690	14.300	12.260	15.080	11.560	6.450	0.707	94.290	52.610						
10-Apr	12.260	1.983	0.614	3.200	15.210	15.460	16.730	11.090	4.900	0.808	71.734	31.695						
11-Apr	11.000	1.815	0.614	3.280	12.520	14.280	15.080	11.640	5.550	0.936	81.513	38.866						
12-Apr	12.470	2.072	0.614	3.860	14.120	16.330	18.240	11.350	4.510	0.404	69.504	27.618						
13-Apr	10.760	1.865	0.614	3.320	11.270	14.080	14.530	11.210	5.480	0.488	79.616	38.920						
14-Apr	11.180	1.970	0.614	3.330	11.100	14.510	15.140	11.620	5.720	0.496	80.083	39.421						
15-Apr	10.850	1.772	0.614	3.230	10.950	14.080	14.420	11.100	5.360	0.964	78.835	38.068						
16-Apr	10.970	1.796	0.614	3.170	10.870	14.140	14.750	11.650	5.320	0.616	82.390	37.624						
17-Apr	10.780	1.766	0.614	3.350	11.140	14.130	14.080	11.630	5.570	0.437	82.307	39.420						
18-Apr	10.900	1.826	0.614	3.040	10.350	13.940	15.630	11.530	5.970	1.285	82.712	42.826						
19-Apr	13.970	2.164	0.614	4.010	15.230	17.980	19.830	10.440	4.390	0.410	58.065	24.416						
20-Apr	12.020	1.978	0.614	3.770	15.040	15.790	17.130	11.390	7.480	0.610	72.134	47.372						
21-Apr	11.800	2.141	0.614	3.450	13.190	15.250	15.260	11.060	6.260	0.524	72.525	41.049						
22-Apr	15.330	2.532	0.614	3.430	13.100	18.760	15.240	10.900	5.660	0.949	58.102	30.171						
23-Apr	7.500	1.215	0.614	3.280	12.760	10.780	15.390	11.450	5.820	0.853	106.215	53.989						
24-Apr	10.780	1.792	0.614	3.210	12.090	13.990	14.780	11.350	5.580	0.697	81.129	39.886						
25-Apr	10.710	1.812	0.614	3.310	12.210	14.020	14.310	11.680	5.650	0.449	83.310	40.300						
26-Apr	10.680	1.725	0.614	3.180	11.939	13.860	13.930	11.280	5.490	0.494	81.385	39.610						
27-Apr	10.520	1.780	0.614	3.190	10.941	13.710	13.600	11.050	5.480	0.341	80.598	39.971						
28-Apr	11.460	2.016	0.614	3.230	11.070	14.690	14.780	11.210	5.700	0.613	76.310	38.802						
29-Apr	11.520	1.942	0.614	3.430	11.800	14.950	17.350	9.750	5.790	1.046	65.217	38.729						
30-Apr	10.650	1.731	0.614	3.160	10.970	13.810	14.160	10.160	5.510	0.618	73.570	39.899						
	Monthly average from March used for 19th Ward due to totalizer inconsistencies.																	
Total	336.350	55.882	18.420	96.420	371.120	432.770	452.510	331.140	171.410	20.900	2319.456	1202.88						
Week 1	10.886	1.807	0.614	3.166	11.850	14.051	14.217	10.654	5.963	0.746	75.865	42.47						
Week 2	11.387	1.892	0.614	2.974	13.503	14.361	15.479	11.276	5.520	0.682	79.085	39.06						
Week 3	11.613	1.920	0.614	3.431	12.396	15.044	15.871	11.257	5.764	0.692	75.567	38.68						
Week 4	10.997	1.839	0.614	3.261	12.016	14.259	14.576	11.274	5.626	0.628	81.007	40.39						
Monthly	11.212	1.863	0.614	3.214	12.371	14.426	15.084	11.038	5.714	0.697	77.315	40.10						
Min =	7.500	1.215	0.614	0.690	7.630	10.780	13.550	9.750	4.390	0.341	58.065	24.42						
Max =	15.330	2.532	0.614	4.010	18.120	18.760	19.830	11.680	7.480	1.285	106.215	53.99						

Print Date: 5/14/2013

	April 2013			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
31-Mar	7.2	378	5300	7.1	464	4320	7.3	326	5420						
1-Apr										ns	ns	ns	7.2	317	5280
2-Apr	7.3	498	5340	7.2	336	4300	7.0	738	4620						
3-Apr										ns	ns	ns	7.2	402	5400
4-Apr	7.4		5480	7.1		4520	7.2		4400						
5-Apr										ns	ns	ns	7.2		5080
6-Apr															
7-Apr	7.2	630	5500	7.1	750	4980	7.1	398	4480						
8-Apr										ns	ns	ns	7.2	365	5160
9-Apr	7.2	658	5120	7.0	275	4640	7.0	378	4500						
10-Apr										ns	ns	ns	7.1	1032	5320
11-Apr	7.1		5380	6.8		4760	7.1		5500						
12-Apr										ns	ns	ns	7.1		5500
13-Apr															
14-Apr	7.2	418	5240	7.2	342	4300	7.2	340	4480						
15-Apr										ns	ns	ns	7.2	138	5300
16-Apr	7.1	310	5300	7.1	605	4820	7.1	508	4500						
17-Apr										ns	ns	ns	7.0	920	1620
18-Apr	7.2		5240	7.1		4720	ns	ns	ns						
19-Apr										ns	ns	ns	7.2		5260
20-Apr															
21-Apr	7.0	328	5340	7.0	260	5140	7.0	307	4940						
22-Apr										ns	ns	ns	7.2	142	5340
23-Apr	7.1	432	5400	7.1	495	4560	7.1	165	3180						
24-Apr										ns	ns	ns	7.1	335	4960
25-Apr	7.1		5340	7.0		5720	7.2		5000						
26-Apr										ns	ns	ns	7.5		2400
27-Apr															
28-Apr	7.2	152	5320	7.1	185	4700	6.4	1272	1880						
29-Apr										ns	ns	ns	7.1	942	5280
30-Apr	7.1		5320	7.1		4860	7.2		4520						
Total	93.2	3426	69320	91.9	3248	62020	84.5	4106	52000	0.0	0	0	93.2	4593	61900
Week 1	7.3	564	5440	7.1	543	4600	7.1	568	4500	#DIV/0!	#DIV/0!	#DIV/0!	7.2	360	5253
Week 2	7.2	538	5247	7.0	309	4567	7.1	359	4827	#DIV/0!	#DIV/0!	#DIV/0!	7.1	699	5327
Week 3	7.1	319	5293	7.1	433	4893	7.0	408	4720	#DIV/0!	#DIV/0!	#DIV/0!	7.1	529	4060
Week 4	7.1	292	5353	7.1	340	4993	6.9	719	3353	#DIV/0!	#DIV/0!	#DIV/0!	7.3	239	4233
Monthly	7.2	428	5332	7.1	406	4771	7.0	513	4333	#DIV/0!	#DIV/0!	#DIV/0!	7.2	510	4762
Min =	7.0	152	5120	6.8	185	4300	6.4	165	1880	0.0	0	0	7.0	138	1620
Max =	7.4	658	5500	7.2	750	5720	7.2	1272	5500	0.0	0	0	7.5	1032	5500

Print Date: 5/14/2013

	April 2013 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Apr	0.01	0.00	0.02	0.01	0.01	0.01	0.01	
2-Apr	0.03	0.03	0.02	0.04	0.00	0.02	0.02	
3-Apr	0.01	0.02	0.00	0.02	0.00	0.01	0.01	
4-Apr	0.02	0.03	0.02	0.04	0.01	0.01	0.02	
5-Apr	0.01	0.02	0.01	0.00	0.03	0.02	0.02	
6-Apr	0.01	0.01	0.18	0.03	0.02	0.00	0.04	
7-Apr	0.00	0.04	0.02	0.01	0.00	0.01	0.01	
8-Apr	0.01	0.01	0.02	0.01	0.02	0.01	0.01	
9-Apr	0.02	0.01	0.04	0.02	0.02	0.01	0.02	
10-Apr	0.02	0.01	0.00	0.02	0.02	0.02	0.02	
11-Apr	0.03	0.03	0.02	0.01	0.01	0.03	0.02	
12-Apr	0.02	0.00	0.03	0.00	0.00	0.00	0.01	
13-Apr	0.00	0.02	0.01	0.00	0.02	0.00	0.01	
14-Apr	0.00	0.00	0.00	0.01	0.00	0.03	0.01	
15-Apr	0.00	0.00	0.00	0.02	0.01	0.02	0.01	
16-Apr	0.01	0.01	0.01	0.04	0.03	0.03	0.02	
17-Apr	0.01	0.01	0.02	0.00	0.00	0.02	0.01	
18-Apr	0.02	0.02	0.01	0.03	0.00	0.05	0.02	
19-Apr	0.02	0.04	0.03	0.02	0.03	0.03	0.03	
20-Apr	0.01	0.02	0.02	0.00	0.01	0.02	0.01	
21-Apr	0.02	0.02	0.03	0.15	0.00	0.03	0.04	
22-Apr	0.01	0.03	0.00	0.02	0.02	0.01	0.02	
23-Apr	0.04	0.00	0.05	0.01	0.01	0.01	0.02	
24-Apr	0.01	0.00	0.00	0.02	0.02	0.02	0.01	
25-Apr	0.01	0.01	0.02	0.02	0.03	0.02	0.02	
26-Apr	0.02	0.03	0.03	0.03	0.03	0.02	0.03	
27-Apr	0.02	0.02	0.01	0.00	0.03	0.01	0.02	
28-Apr	0.00	0.02	0.01	0.03	0.02	0.03	0.02	
29-Apr	0.01	0.00	0.02	0.01	0.01	0.02	0.01	
30-Apr	0.02	0.03	0.00	0.03	0.02	0.04	0.02	
Average	0.01	0.02	0.02	0.02	0.01	0.02	0.02	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.04	0.04	0.18	0.15	0.03	0.05		

CITY OF READING WASTEWATER TREATMENT PLANT

April 2013 Biosolids Report

Solids Processing:

	Total
Sludge Pumped from Primary Settling Tanks (gallons):	3,232,827
Secondary Sludge Pumped to Mix Tank (gallons):	7,006,000
Supernated from Secondary Digesters (gallons):	0

Gravity Belt Thickeners:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	6,380,301	3,865,758	177,897	10,423,956
Thickened Sludge (gallons):	1,268,498	754,571	41,001	2,064,070
Polymer (pounds):	908.71	405.54	37.55	1351.80
Solids (dry tons):	276.78	161.83	8.99	447.59
Polymer dosage (pounds/dry ton):	3.28	2.51	4.18	3.02
% Reduction:	80.12%	80.48%	76.95%	80.20%
GBT Solids in Filtrate (dry tons):	7.26	23.70	0.70	31.67
GBT 1 Hours of Operation:	192.50	138.00	4.00	334.50
GBT 2 Hours of Operation:	204.00	147.00	8.00	359.00
Total GBT Hours of Operation:	396.50	285.00	12.00	693.50
Dry tons/hour:	0.70	0.57	0.75	0.65

Belt Filter Presses:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	976,053	1,090,890	41,015	2,107,958
Polymer (pounds):	1126.50	1299.23	45.06	2470.79
Solids (dry tons):	153.86	170.39	7.36	331.61
Polymer dosage (pounds/dry ton):	7.32	7.63	6.12	7.45
% Solids Recovery:	96.79%	96.79%	97.87%	97.15%
Solids in Filtrate (dry tons):	5.93	6.59	0.16	12.68
BFP 1 Hours of Operation:	125.00	132.00	4.00	261.00
BFP 2 Hours of Operation:	30.00	42.50	0.00	72.50
BFP 3 Hours of Operation:	192.50	175.50	8.00	376.00
BFP 4 Hours of Operation:	196.00	164.50	8.00	368.50
Total BFP Hours of Operation:	543.50	514.50	20.00	1078.00
Dry tons/hour:	0.28	0.33	0.37	0.31

Total Solids in Filtrate (dry tons):	44.35
% Solids (Method 2540 G):	19.63%
*** Total Wet Tons Removed:	2921.58
*** Dry Tons Removed:	611.07
Hours of Operation:	399
Fritz Island Scum Disposed (tons):	0.00
Fritz Island Grit Disposed (tons):	5.43
6th & Canal Grit Disposed (tons):	26.33
Mix Tank Cleaning/Snail Shells Disposed (tons):	0.00
Sanitary Sewer Excavation Soil (tons):	0.00

*** Includes sludge removal by outside contractor during digester cleaning.

April 2013 Biosolids Report

Date	Volatile Solids Reducton PST (VS%)	Sec Dig (VS%)	VSR (%)	% Solids Feed	Cake (I-3750-85)	Filtrate	Thickened	GBT Filtrate	Polymer (lbs)	BFP Feed (gal)	Solids (dry tons)	Polymer Dose lb/dry ton	Wet Tons	6th St.	Grit	Snail Shells	Scum	Supernated (gpd)	GBT Feed (gal)	Thickened (gal)	GBT Poly (lbs)	Date
Mon 1				3.90%	20.24%	0.04%	4.80%	0.04%	97.63	64,920	10.56	9.25	163.89					0	242,191	59,900	45.06	Mon 1
Tue 2				3.75%	18.80%	0.15%	6.19%	0.15%	90.12	90,972	14.23	6.33	160.37					0	426,140	57,999	45.06	Tue 2
Wed 3	78.50%			3.70%	19.69%	0.13%	3.90%	0.13%	82.61	68,476	10.57	7.82	190.93					0	453,284	77,301	67.59	Wed 3
Thu 4				3.74%	19.83%	0.15%	3.71%	0.15%	90.12	76,481	11.93	7.56	143.70					0	469,869	73,499	67.59	Thu 4
Fri 5				3.90%	19.83%	0.16%	5.97%	0.16%	90.12	77,865	12.66	7.12	145.55					0	414,437	54,801	52.57	Fri 5
Sat 6				4.04%	19.92%	0.16%	4.26%	0.16%	45.06	37,500	6.32	7.13	18.27					0	201,149	87,500	30.04	Sat 6
Sun 7				4.66%	20.32%	0.17%	5.15%	0.17%	37.55	40,901	7.95	4.72						0	250,635	37,500	37.55	Sun 7
Mon 8				4.76%	19.86%	0.20%	4.27%	0.20%	112.65	87,164	17.30	6.51	222.43					0	430,967	86,400	60.08	Mon 8
Tue 9				5.75%	19.60%	0.18%	5.38%	0.18%	105.14	81,260	19.48	5.40	166.58	6.06				0	390,734	64,799	52.57	Tue 9
Wed 10	83.33%			5.32%	21.21%	0.10%	5.22%	0.10%	67.59	59,617	13.23	5.11	115.78	14.64				0	352,125	73,501	52.57	Wed 10
Thu 11				5.41%	21.22%	0.15%	4.95%	0.15%	82.61	85,140	19.21	4.30	175.56					0	487,487	91,499	60.08	Thu 11
Fri 12				5.79%	21.70%	0.16%	3.75%	0.16%	97.63	89,520	21.61	4.52	89.58					0	348,586	62,701	37.55	Fri 12
Sat 13				4.47%	19.40%	0.13%	5.21%	0.13%	45.06	38,199	7.12	6.33	18.58					0	137,689	73,299	15.02	Sat 13
Sun 14				3.80%	20.94%	0.14%	5.67%	0.14%	52.57	43,731	6.93	7.59						0	218,902	54,000	37.55	Sun 14
Mon 15				3.52%	19.93%	0.17%	4.90%	0.17%	135.18	116,800	17.14	7.88	238.30					0	390,360	80,701	52.57	Mon 15
Tue 16				3.43%	18.86%	0.17%	5.53%	0.17%	127.67	112,630	16.11	7.93	164.98					0	418,357	65,599	52.57	Tue 16
Wed 17	82.89%			3.34%	18.78%	0.14%	6.13%	0.14%	82.61	81,500	11.35	7.28	122.62					0	314,312	91,001	37.55	Wed 17
Thu 18				3.17%	19.67%	0.14%	5.95%	0.14%	150.20	63,401	8.38	17.92	150.24					0	327,252	91,400	30.04	Thu 18
Fri 19				3.04%	19.33%	0.15%	6.56%	0.15%	90.12	88,309	11.19	8.05	132.64					0	413,192	61,300	52.57	Fri 19
Sat 20				3.05%	18.35%	0.13%	4.64%	0.13%	45.06	38,800	4.93	9.13	16.96					0	192,055	99,700	22.53	Sat 20
Sun 21				3.12%	19.11%	0.15%	5.22%	0.15%	60.08	55,141	7.17	8.37						0	218,385	53,600	30.04	Sun 21
Mon 22				3.03%	19.51%	0.17%	5.32%	0.17%	120.16	117,920	14.90	8.06	150.83					0	449,308	50,069	60.08	Mon 22
Tue 23				2.83%	17.96%	0.11%	5.75%	0.11%	120.16	117,290	13.84	8.68	69.25		5.43			0	476,550	64,701	60.08	Tue 23
Wed 24	75.90%			2.74%	19.46%	0.09%	5.30%	0.09%	97.63	83,720	9.57	10.21	52.79					0	469,655	79,400	52.57	Wed 24
Thu 25				2.85%	19.00%	0.15%	5.22%	0.15%	22.53	21,359	2.54	8.88	31.23					0	243,080	34,399	30.04	Thu 25
Fri 26				3.09%	20.74%	0.13%	6.42%	0.13%	67.59	60,780	7.83	8.63	18.45					0	441,826	71,601	52.57	Fri 26
Sat 27				ns	ns	ns	ns	ns	22.53	1,501			36.07					0	73,677	35,999	0.00	Sat 27
Sun 28				3.36%	18.19%	0.12%	4.80%	0.12%	37.55	26,871	3.76	9.97						0	217,419	62,200	37.55	Sun 28
Mon 29				3.41%	19.35%	0.14%	6.68%	0.14%	112.65	101,639	14.45	7.79	71.72					0	481,417	84,001	60.08	Mon 29
Tue 30				2.85%	18.58%	0.14%	6.93%	0.14%	82.61	78,551	9.34	8.85	54.28	5.63				0	472,916	83,700	60.08	Tue 30
Total:					569.38%				2,470.79	2,107,958	331.61	7.45	2921.58	26.33	5.43	0.00	0.00	0	10,423,956	2,064,070	1351.80	
Ave:	80.16%			3.79%	19.63%	0.14%	5.30%	0.14%	82.36	70,265	11.43	7.84	112.37	8.78	5.43	0.00	0.00	0	347,465	68,802	45.06	
Min:	75.90%	0.00%	0.00%	2.74%	17.96%	0.04%	3.71%	0.04%	22.53	1,501	2.54	4.30	16.96									
Max:	83.33%	0.00%	0.00%	5.79%	21.70%	0.20%	6.93%	0.20%	150.20	117,920	21.61	17.92	238.30									

Operational Dry Tons, Cake =	1826.20	x	19.63	x	0.01 = 358.48 dry tons
Digester Cleaning, Cake =	1095.38	x	23.06	x	0.01 = 252.59 dry tons

Total Dry Tons, Cake =	2921.58 611.07 dry tons

April 2013 Solids Operations Report

10 PM - 6 AM

Date	BFP % Solids			Belt Filter Press					Total	Dry tons	Filtrate	GBT % Solids		Gravity Belt Thickener				Thickened	Polymer	Total	Dry tons	Filtrate
	Feed	Cake	Filtrate	Feed	Polymer	Solids	Poly Dosage	% Solids	BFP	per	Solids	Thickened	Filtrate	Feed	Thicknd	%	Polymer	Solids	Dosage	GBT	per	Solids
	(I-3750-85)			(gal)	(lbs)	(dry tons)	(lbs/dry ton)	Recovery	Hours	hour	(dry tons)	(I-3750-85)		(gal)	(gal)	Reduc.	(lbs)	(dry tons)	(lbs/dry ton)	Hours	hour	(dry tons)
Mon 1	3.90%	20.24%	0.04%	25,220	37.55	4.10	9.16	99.17%	15.00	0.27	0.04	4.80%	0.04%	225,754	51,999	76.97%	45.06	10.41	4.33	15.00	0.69	0.086734
Tue 2	3.75%	18.80%	0.15%	46,771	45.06	7.31	6.16	96.77%	21.00	0.35	0.29	6.19%	0.15%	241,179	34,400	85.74%	37.55	8.88	4.23	18.00	0.55	0.215172
Wed 3	3.70%	19.69%	0.13%	31,575	30.04	4.87	6.17	97.13%	22.50	0.22	0.17	3.90%	0.13%	255,159	47,700	81.31%	45.06	7.76	5.81	16.00	0.48	0.258582
Thu 4	3.74%	19.83%	0.15%	35,699	45.06	5.57	8.09	96.72%	22.50	0.25	0.22	3.71%	0.15%	271,061	41,200	84.80%	45.06	6.37	7.07	16.00	0.40	0.257706
Fri 5	3.90%	19.83%	0.16%	40,965	52.57	6.66	7.89	96.68%	15.00	0.44	0.27	5.97%	0.16%	287,250	40,800	85.80%	45.06	10.16	4.44	16.00	0.63	0.272218
Sat 6	4.04%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 7	4.66%	20.32%	0.17%	40,901	37.55	7.95	4.72	97.16%	24.00	0.33	0.29	5.15%	0.17%	250,635	37,500	85.04%	37.55	8.05	4.66	16.00	0.50	0.265838
Mon 8	4.76%	19.86%	0.20%	45,563	52.57	9.04	5.81	96.77%	24.00	0.38	0.38	4.27%	0.20%	237,317	49,700	79.06%	37.55	8.85	4.24	16.00	0.55	0.414498
Tue 9	5.75%	19.60%	0.18%	37,059	52.57	8.89	5.92	97.77%	24.00	0.37	0.28	5.38%	0.18%	252,450	40,600	83.92%	37.55	9.11	4.12	16.00	0.57	0.304744
Wed 10	5.32%	21.21%	0.10%	34,782	45.06	7.72	5.84	98.59%	24.00	0.32	0.15	5.22%	0.10%	264,540	51,400	80.57%	30.04	11.19	2.68	16.00	0.70	0.214338
Thu 11	5.41%	21.22%	0.15%	37,040	37.55	8.36	4.49	97.92%	24.00	0.35	0.23	4.95%	0.15%	293,074	53,700	81.68%	37.55	11.08	3.39	16.00	0.69	0.335894
Fri 12	5.79%	21.70%	0.16%	37,120	52.57	6.96	5.87	97.96%	24.00	0.37	0.25	3.75%	0.16%	239,874	41,200	82.82%	30.04	6.44	4.66	16.00	0.40	0.274886
Sat 13	4.47%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 14	3.80%	20.94%	0.14%	43,731	52.57	6.93	7.59	96.96%	24.00	0.29	0.26	5.67%	0.14%	216,902	54,000	75.33%	37.55	12.77	2.94	16.00	0.80	0.315252
Mon 15	3.52%	19.93%	0.17%	47,000	52.57	6.90	7.62	95.99%	24.00	0.29	0.33	4.90%	0.17%	243,311	54,801	77.48%	37.55	11.20	3.35	16.00	0.70	0.388484
Tue 16	3.43%	18.86%	0.17%	52,429	52.57	7.50	7.01	95.91%	24.00	0.31	0.37	5.53%	0.17%	259,779	45,700	82.41%	37.55	10.54	3.56	16.00	0.66	0.323967
Wed 17	3.34%	18.78%	0.14%	9,000	7.51	1.25	5.99	96.53%	8.00	0.16	0.05	6.13%	0.14%	106,731	53,200	50.16%	7.51	13.60	0.55	8.00	1.70	0.310582
Thu 18	3.17%	19.67%	0.14%	7,600	15.02	1.00	14.95	96.27%	12.00	0.08	0.04	5.95%	0.14%	106,316	46,299	56.45%	0.00	11.49	0.00	8.00	1.44	0.270294
Fri 19	3.04%	19.33%	0.15%	45,109	45.06	5.72	7.88	95.81%	19.00	0.30	0.28	6.56%	0.15%	272,784	41,400	84.82%	37.55	11.33	3.32	16.00	0.71	0.258957
Sat 20	3.05%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 21	3.12%	19.11%	0.15%	55,141	60.08	7.17	8.37	95.95%	20.50	0.35	0.34	5.22%	0.15%	218,385	53,600	75.46%	30.04	11.67	2.57	16.00	0.73	0.335268
Mon 22	3.03%	19.51%	0.17%	57,719	60.08	7.29	8.24	95.22%	24.00	0.30	0.41	5.32%	0.17%	244,718	47,399	80.63%	37.55	10.52	3.57	16.00	0.66	0.336012
Tue 23	2.83%	17.96%	0.11%	54,189	52.57	6.39	8.22	96.71%	24.00	0.27	0.25	5.75%	0.11%	264,694	42,201	84.06%	37.55	10.12	3.71	16.00	0.63	0.193576
Wed 24	2.74%	19.46%	0.09%	38,439	45.06	4.39	10.26	97.16%	16.00	0.27	0.14	5.30%	0.09%	254,345	40,399	84.12%	30.04	8.93	3.36	13.50	0.66	0.151617
Thu 25	2.85%	19.00%	0.15%	21,359	22.53	2.54	8.88	95.49%	16.00	0.16	0.13	5.22%	0.15%	243,080	34,399	85.85%	30.04	7.49	4.01	8.00	0.94	0.215166
Fri 26	3.09%	20.74%	0.13%	8,481	15.02	1.09	13.74	96.40%	16.00	0.07	0.05	6.42%	0.13%	278,844	53,001	80.99%	37.55	14.19	2.65	16.00	0.89	0.287318
Sat 27	ns	ns	ns	1,501	22.53	ns			12.00	ns		ns	ns	73,677	35,999	51.14%	0.00	ns		8.00		ns
Sun 28	3.36%	18.19%	0.12%	26,871	37.55	3.76	9.97	97.07%	16.00	0.24	0.13	4.80%	0.12%	217,419	62,200	71.39%	37.55	12.45	3.02	16.00	0.78	0.311249
Mon 29	3.41%	19.35%	0.14%	52,039	52.57	7.40	7.10	96.59%	24.00	0.31	0.30	6.68%	0.14%	296,750	62,601	78.90%	45.06	17.44	2.58	16.00	1.09	0.365465
Tue 30	2.85%	18.58%	0.14%	42,750	45.06	5.08	8.87	95.81%	24.00	0.21	0.25	6.93%	0.14%	262,273	51,100	80.52%	37.55	14.77	2.54	16.00	0.92	0.298322
Total =				976,053	1126.50	153.86	7.32	96.79%	543.50	7.26	5.93			6,380,301	1,266,496	80.12%	908.71	276.78	3.28	396.50	19.48	7.26
Average =	3.79%	19.68%	0.14%	32,535	37.55	5.31	7.88	96.79%	18.12	0.28	0.20	5.37%	0.14%	212,677	42,283	78.05%	30.29	10.65	3.51	13.22	0.75	0.28
Minimum =	2.74%	17.96%	0.04%	0	0.00	0.00	4.49	95.22%	0.00	0.07	0.00	3.71%	0.04%	0	0	50.16%	0.00	6.37	0.00	0.00	0.40	0.09
Maximum =	5.79%	21.70%	0.20%	57,719	60.08	9.04	14.95	99.17%	24.00	0.44	0.41	6.93%	0.20%	296,750	62,601	85.85%	45.06	17.44	7.07	16.00	1.70	0.41

(%feed)(%cake - %filtrate)

April 2013 Solids Operations Report

10 PM - 6 AM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thickn'd	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Mon 1	8	4.55%	19.15%	0.15%	4.76%	4.10%	19.85%	0.16%	4.10%	0	0	22920	2300	2	3	94,301	131,453	51,999	4	2	0.00	0.00	7.00	8.00	7.00	8.00
Tue 2	8	3.95%	19.10%	0.15%	4.82%	3.65%	19.15%	0.14%	4.70%	500	0	27972	18299	2	4	101,500	139,679	34,400	3	2	7.00	0.00	7.00	7.00	8.00	8.00
Wed 3	8	3.75%	19.35%	0.15%	4.87%	3.70%	19.48%	0.16%	4.55%	0	0	15876	15699	2	2	108,200	146,959	47,700	3	3	7.50	0.00	7.50	7.50	8.00	8.00
Thu 4	8	3.60%	18.45%	0.15%	4.72%	3.50%	20.05%	0.14%	4.95%	0	0	25200	10499	2	4	114,800	156,261	41,200	4	2	7.50	0.00	7.50	7.50	6.00	8.00
Fri 5	8	3.95%	19.38%	0.15%	4.88%	3.85%	19.44%	0.16%	5.05%	0	0	20466	20499	4	3	123,499	163,751	40,800	4	2	0.00	0.00	7.50	7.50	8.00	8.00
Sat 6																										
Sun 7	8	4.05%	19.55%	0.15%	4.85%	5.60%	19.95%	0.16%	4.85%	0	0	22800	18101	2	3	101,700	148,935	37,500	3	2	8.00	0.00	8.00	8.00	8.00	8.00
Mon 8	8	4.50%	18.75%	0.15%	4.78%	4.85%	19.60%	0.16%	4.50%	0	0	26664	18899	3	4	99,500	137,817	49,700	3	2	8.00	0.00	8.00	8.00	8.00	8.00
Tue 9	8	5.30%	20.00%	0.14%	4.46%	5.40%	19.45%	0.16%	4.10%	0	0	21660	15399	3	4	103,199	149,251	40,600	3	2	8.00	0.00	8.00	8.00	8.00	8.00
Wed 10	8	4.90%	20.20%	0.15%	4.61%	5.85%	20.65%	0.15%	4.80%	0	0	17982	16800	3	3	106,600	157,940	51,400	3	1	8.00	0.00	8.00	8.00	6.00	8.00
Thu 11	8	6.20%	21.95%	0.16%	4.38%	4.45%	19.60%	0.15%	4.75%	0	0	20640	16400	2	3	112,401	180,673	53,700	3	2	8.00	0.00	8.00	8.00	8.00	8.00
Fri 12	8	6.30%	22.95%	0.16%	4.52%	5.10%	21.85%	0.16%	4.85%	0	0	19620	17500	4	3	99,400	140,474	41,200	3	1	8.00	0.00	8.00	8.00	8.00	8.00
Sat 13																										
Sun 14	8	3.70%	20.45%	0.14%	4.64%	3.70%	20.05%	0.15%	4.60%	0	0	23730	20001	2	5	88,500	130,402	54,000	3	2	8.00	0.00	8.00	8.00	8.00	8.00
Mon 15	8	3.40%	18.70%	0.15%	4.55%	3.20%	19.55%	0.15%	4.30%	0	0	30300	16700	2	5	100,901	142,410	54,801	3	2	8.00	0.00	8.00	8.00	8.00	8.00
Tue 16	8	3.30%	18.90%	0.15%	4.53%	3.25%	19.10%	0.14%	4.35%	0	0	33030	19399	2	5	109,201	150,578	45,700	3	2	8.00	0.00	8.00	8.00	8.00	8.00
Wed 17	4									0	0	0	9000	0	1	46,799	59,932	53,200	0	1		4.00		4.00	4.00	4.00
Thu 18	4									0	0	101	7499	0	2	39,600	66,716	46,299	0	0	4.00	4.00	0.00	4.00	4.00	4.00
Fri 19	8	3.05%	18.10%	0.14%	4.58%	2.75%	17.95%	0.15%	4.35%	0	0	28110	16999	1	5	106,100	166,684	41,400	3	2	3.00	5.50	8.00	2.50	8.00	8.00
Sat 20																										
Sun 21	8	3.15%	18.40%	0.51%	4.59%	2.90%	19.00%	0.14%	4.80%	0	0	27540	27601	3	5	83,600	134,785	53,600	3	1	0.00	4.50	8.00	8.00	8.00	8.00
Mon 22	8	3.15%	20.45%	0.15%	4.51%	2.60%	19.10%	0.15%	4.85%	0	0	24720	32999	4	4	93,601	151,117	47,399	3	2	0.00	8.00	8.00	8.00	8.00	8.00
Tue 23	8	2.45%	18.80%	0.14%	4.57%	3.30%	19.05%	0.15%	4.75%	0	0	35790	18399	2	5	105,001	159,693	42,201	3	2	8.00	0.00	8.00	8.00	8.00	8.00
Wed 24	8	2.60%	18.20%	0.16%	4.68%	2.50%	17.88%	0.14%	4.65%	0	0	20040	18399	3	3	62,900	191,445	40,399	3	1	0.00	0.00	8.00	8.00	5.50	8.00
Thu 25	8	2.90%	18.85%	0.14%	4.60%	2.85%	18.10%	0.14%	4.35%	0	0	16260	5099	2	1	0	243,080	34,399	4	0	0.00	0.00	8.00	8.00	0.00	8.00
Fri 26	8				4.66%				5.15%	0	0	4080	4401	1	1	96,000	182,844	53,001	4	1	0.00	0.00	8.00	8.00	8.00	8.00
Sat 27	4									200	0	501	800	2	1	38,500	35,177	35,999	0	0	0.00	4.00	4.00	4.00	4.00	4.00
Sun 28	8	3.35%	18.12%	0.14%	5.02%	3.35%	17.93%	0.14%	4.10%	0	0	13770	13101	2	3	81,800	135,619	62,200	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Mon 29	8	3.50%	18.95%	0.15%	4.63%	3.05%	20.00%	0.14%	4.25%	0	0	35340	16699	3	4	118,500	178,250	62,601	4	2	8.00	0.00	8.00	8.00	8.00	8.00
Tue 30	8	2.80%	18.45%	0.15%	4.85%	2.80%	18.40%	0.14%	4.30%	0	0	25950	16800	3	3	128,300	133,973	51,100	3	2	8.00	0.00	8.00	8.00	8.00	8.00
	204	3.84%	19.36%	0.16%	4.67%	3.73%	19.36%	0.15%	4.58%	700	0	561062	414291	61	89	2,464,403	3,915,898	1,268,498	78	43	125.00	30.00	192.50	196.00	192.50	204.00
	Min:	2.45%	18.10%	0.14%	4.38%	2.50%	17.88%	0.14%	4.10%																	
	Max:	6.30%	22.95%	0.51%	5.02%	5.65%	21.85%	0.16%	5.15%	500	0	35790	32999	4	5	128,300	243,080	62,601	4	3	8.00	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

April 2013 Solids Operations Report

6 AM - 2 PM

Date	% Solids (I-3750-85) Feed	Cake	Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids (I-3750-85) Thickened	Filtrate	Gravity Belt Thickener Feed (gal)	Thickned (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Mon 1	3.90%	20.24%	0.04%	39,700	60.08	6.46	9.31	99.17%	21.00	0.31	0.07	4.80%	0.04%	16,437	7,901	51.93%	0.00	1.58	0.00	9.50	0.17	0.03
Tue 2	3.75%	18.80%	0.15%	44,201	45.06	6.91	6.52	96.77%	24.00	0.29	0.28	6.19%	0.15%	184,961	23,599	87.24%	7.51	6.09	1.23	13.00	0.47	1.16
Wed 3	3.70%	19.69%	0.13%	36,901	52.57	5.69	9.23	97.13%	24.00	0.24	0.20	3.90%	0.13%	198,125	29,601	85.06%	22.53	4.81	4.68	15.00	0.32	1.07
Thu 4	3.74%	19.83%	0.15%	40,782	45.06	6.36	7.08	96.72%	22.50	0.28	0.26	3.71%	0.15%	198,808	32,299	83.75%	22.53	5.00	4.51	16.00	0.31	1.24
Fri 5	3.90%	19.83%	0.16%	36,900	37.55	6.00	6.26	96.68%	20.00	0.30	0.25	5.97%	0.16%	127,187	14,001	88.99%	7.51	3.49	2.15	7.00	0.50	0.85
Sat 6	4.04%	19.92%	0.16%	37,500	45.06	6.32	7.13	96.82%	9.00	0.70	0.25	4.26%	0.16%	201,149	87,500	56.50%	30.04	15.54	1.93	14.00	1.11	1.34
Sun 7	4.66%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 8	4.76%	19.86%	0.20%	41,601	60.08	8.26	7.28	96.77%	24.00	0.34	0.35	4.27%	0.20%	193,650	36,700	81.05%	22.53	6.53	3.45	12.00	0.54	1.62
Tue 9	5.75%	19.60%	0.18%	44,201	52.57	10.60	4.96	97.77%	24.00	0.44	0.33	5.38%	0.18%	138,284	24,199	82.50%	15.02	5.43	2.77	11.00	0.49	1.04
Wed 10	5.32%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 11	5.41%	21.22%	0.15%	48,100	45.06	10.85	4.15	97.92%	26.50	0.41	0.30	4.95%	0.15%	194,413	37,799	80.56%	22.53	7.80	2.89	15.00	0.52	1.22
Fri 12	5.79%	21.70%	0.16%	52,400	45.06	12.65	3.56	97.96%	24.00	0.53	0.35	3.75%	0.16%	108,712	21,501	80.22%	7.51	3.36	2.23	11.00	0.31	0.73
Sat 13	4.47%	19.40%	0.13%	38,199	45.06	7.12	6.33	97.75%	16.00	0.45	0.21	5.21%	0.13%	137,689	73,299	46.76%	15.02	15.92	0.94	12.00	1.33	0.75
Sun 14	3.80%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 15	3.52%	19.93%	0.17%	69,800	82.61	10.25	8.06	95.99%	28.50	0.36	0.49	4.90%	0.17%	147,049	25,900	82.39%	15.02	5.29	2.84	13.00	0.41	1.04
Tue 16	3.43%	18.86%	0.17%	60,201	75.10	8.61	8.72	95.91%	24.00	0.36	0.43	5.53%	0.17%	158,578	19,899	87.45%	15.02	4.59	3.27	13.00	0.35	1.12
Wed 17	3.34%	18.78%	0.14%	72,500	75.10	10.10	7.44	96.53%	28.00	0.36	0.42	6.13%	0.14%	207,581	37,801	81.79%	30.04	9.66	3.11	9.00	1.07	1.21
Thu 18	3.17%	19.67%	0.14%	55,801	135.18	7.38	18.33	96.27%	24.00	0.31	0.33	5.95%	0.14%	220,936	45,101	79.59%	30.04	11.19	2.68	16.00	0.70	1.29
Fri 19	3.04%	19.33%	0.15%	43,200	45.06	5.48	8.23	95.81%	16.00	0.34	0.27	6.56%	0.15%	140,408	19,900	85.83%	15.02	5.44	2.76	13.00	0.42	0.88
Sat 20	3.05%	18.35%	0.13%	36,800	45.06	4.93	9.13	96.42%	20.50	0.24	0.21	4.64%	0.13%	192,055	99,700	48.09%	22.53	19.29	1.17	13.50	1.43	1.04
Sun 21	3.12%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 22	3.03%	19.51%	0.17%	60,201	60.08	7.61	7.90	95.22%	24.00	0.32	0.43	5.32%	0.17%	204,590	2,670	98.69%	22.53	0.59	38.04	16.00	0.04	1.45
Tue 23	2.83%	17.96%	0.11%	63,101	67.59	7.45	9.08	96.71%	32.00	0.23	0.29	5.75%	0.11%	211,856	22,500	89.38%	22.53	5.39	4.18	14.00	0.39	0.97
Wed 24	2.74%	19.46%	0.09%	29,101	30.04	3.33	9.03	97.16%	12.00	0.28	0.11	5.30%	0.09%	124,998	20,101	83.92%	7.51	4.44	1.69	6.50	0.68	0.47
Thu 25	2.85%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 26	3.09%	20.74%	0.13%	52,299	52.57	6.74	7.80	96.40%	22.50	0.30	0.28	6.42%	0.13%	162,982	18,600	88.59%	15.02	4.98	3.02	13.00	0.38	0.88
Sat 27	ns		ns	0	0.00	ns			0.00		ns			0	0		0.00			0.00		
Sun 28	3.36%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 29	3.41%	19.35%	0.14%	49,600	60.08	7.05	8.52	96.59%	24.00	0.29	0.29	6.68%	0.14%	184,667	21,400	88.41%	15.02	5.96	2.52	10.50	0.57	1.08
Tue 30	2.85%	18.58%	0.14%	35,801	37.55	4.25	8.83	95.81%	24.00	0.18	0.21	6.93%	0.14%	210,643	32,600	84.52%	22.53	9.42	2.39	12.00	0.79	1.23
Total =				1,090,890	1299.23	170.39	7.63	96.79%	514.50	7.85	6.59			3,865,758	754,571	80.48%	405.54	161.83	2.51	285.00	13.29	23.70
Average =	3.79%	19.59%	0.14%	36,363	43.31	5.88	7.95	96.79%	17.15	0.34	0.23	5.33%	0.14%	128,859	25,152	79.27%	13.52	7.04	4.11	9.50	0.58	1.03
Minimum =	2.74%	17.96%	0.04%	0	0.00	0.00	3.56	95.22%	0.00	0.18	0.00	3.71%	0.04%	0	0	46.76%	0.00	0.59	0.00	0.00	0.04	0.03
Maximum =	5.79%	21.70%	0.20%	72,500	135.18	12.65	18.33	99.17%	32.00	0.70	0.49	6.93%	0.20%	220,936	99,700	98.69%	30.04	19.29	38.04	16.00	1.43	1.62

$$\% \text{ Solids Recovery} = \frac{(\%\text{cake})(\%\text{feed} - \%\text{filtrate})}{(\%\text{feed})(\%\text{cake} - \%\text{filtrate})}$$

April 2013 Solids Operations Report

6 AM - 2 PM

Date	Hours of Operation	Mix Tank Level	% Solids								BFP Sludge Processed				BFP Polymer				GBT Polymer		Hours of Operation					
			1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Thickned Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Mon 1	8	6.28	4.10%	19.05%	0.15%		4.05%	20.10%	0.12%		0	0	21,500	18,200	3	5	600	15,837	7,901	0	0	7.00	0.00	7.00	7.00	4.50	5.00
Tue 2	8	8.78	3.45%	18.45%	0.14%	6.50%	3.90%	18.80%	0.14%	6.60%	0	0	23,000	21,201	2	4	79,500	105,461	23,599	1	0	8.00	0.00	8.00	8.00	6.50	6.50
Wed 3	8	8.45	3.55%	18.35%	0.12%	4.05%	3.60%	20.75%	0.12%	5.60%	0	0	19,500	17,401	2	5	86,000	112,125	29,601	2	1	8.00	0.00	8.00	8.00	7.50	7.50
Thu 4	8	8.62	4.00%	18.85%	0.14%	4.40%	3.60%	18.80%	0.14%	4.50%	0	0	23181	17601	2	4	83,800	115,008	32,299	1	2	7.50	0.00	7.50	7.50	8.00	8.00
Fri 5	8	7.31	4.10%	18.85%	0.14%	6.00%	3.90%	21.30%	0.14%	0.00%	0	0	17,500	19,400	3	2	49,701	77,486	14,001	1	0	5.00	0.00	7.50	7.50	3.00	4.00
Sat 6	8	9.43	3.70%	19.00%	0.14%	4.00%	3.75%	19.75%	0.14%	4.50%	0	0	20,700	16,800	2	4	87,500	113,649	87,500	2	2	0.00	0.00	2.00	7.00	7.00	7.00
Sun 7																											
Mon 8	8	8.39	4.55%	20.25%	0.14%	5.15%	5.20%	19.55%	0.14%	4.30%	0	0	24,500	17,101	3	5	77,600	116,050	36,700	2	1	8.00	0.00	8.00	8.00	6.00	6.00
Tue 9	8	8.80	4.60%	19.65%	0.14%	5.70%	8.10%	19.30%	0.14%		0	0	26,500	17,701	2	5	56,301	81,983	24,199	1	1	8.00	0.00	8.00	8.00	5.50	5.50
Wed 10																											
Thu 11	9	7.18	5.25%	21.05%	0.16%	4.05%	5.05%	19.55%	0.15%	5.10%	0	0	26,500	21,600	2	4	64,900	129,513	37,799	2	1	8.50	0.00	9.00	9.00	6.00	9.00
Fri 12	8	7.52	6.60%	21.95%	0.16%	4.15%	4.70%	19.05%	0.15%	4.20%	0	0	29,500	22,900	1	5	35,900	72,812	21,501	0	1	8.00	0.00	8.00	8.00	5.00	6.00
Sat 13	8	8.85	5.10%	21.75%	0.14%	4.90%	3.20%	18.10%	0.14%		0	0	20,500	17,699	3	3	57,099	80,590	73,299	2	0	0.00	0.00	8.00	8.00	6.00	6.00
Sun 14																											
Mon 15	10	8.36	3.30%	19.85%	0.14%	4.95%	3.45%	19.80%	0.15%	4.65%	0	0	43,500	26,300	4	7	59,299	87,750	25,900	1	1	9.50	0.00	9.50	9.50	6.50	6.50
Tue 16	8	8.61	3.30%	18.45%	0.14%	6.35%	3.25%	19.00%	0.14%		0	0	37,500	22,701	4	6	64,100	94,478	19,899	2	0	8.00	0.00	8.00	8.00	5.00	8.00
Wed 17	8	8.06	3.25%	19.50%	0.16%	6.05%	3.15%	18.05%	0.15%	6.25%	0	0	47,900	24,600	2	8	91,401	116,180	37,801	3	1	8.00	4.00	8.00	8.00	4.50	4.50
Thu 18	8	9.11	3.35%	19.20%	0.14%	6.45%	3.30%	18.65%	0.14%	4.85%	0	0	36,000	19,801	12	6	63,000	157,936	45,101	3	1	8.00	8.00	8.00	0.00	8.00	8.00
Fri 19	8	8.14	3.35%	19.00%	0.16%	6.75%	3.00%	17.45%	0.51%		0	0	26,400	16,800	0	6	57,500	82,908	19,900	1	1	0.00	8.00	8.00	0.00	6.50	6.50
Sat 20	8	9.22	3.20%	17.40%	0.16%	4.25%	2.75%	17.95%	0.14%	5.35%	100	0	24,900	13,800	2	4	84,199	107,856	99,700	2	1	0.00	6.50	7.00	7.00	7.00	6.50
Sun 21																											
Mon 22	8	8.31	2.90%	19.45%	0.14%	6.30%	2.50%	19.20%	0.12%	6.20%	0	0	25,200	35,001	1	7	76,499	128,091	2,670	2	1	0.00	8.00	8.00	8.00	8.00	8.00
Tue 23	8	8.49	2.80%	16.05%	0.14%	5.55%	2.70%	18.65%	0.14%	6.40%	0	0	35,700	27,401	3	6	83,700	128,156	22,500	2	1	8.00	8.00	8.00	8.00	7.00	7.00
Wed 24	8	8.69	2.80%	19.40%	0.15%	6.75%	2.50%	18.85%	0.14%		0	0	16,200	12,901	3	1	0	124,998	20,101	1	0	0.00	0.00	6.00	6.00	0.00	6.50
Thu 25																											
Fri 26	8	8.78	3.05%	22.35%	0.14%	6.05%	2.90%	19.70%	0.12%	6.50%	0	0	37,200	15,099	3	4	57,700	105,282	18,600	1	1	6.50	0.00	8.00	8.00	6.50	6.50
Sat 27																											
Sun 28																											
Mon 29	8	7.79	3.25%	19.45%	0.14%	6.95%	3.15%	9.35%	0.12%	8.15%	0	0	33,600	16,000	3	5	93,100	91,567	21,400	1	1	8.00	0.00	8.00	8.00	8.00	2.50
Tue 30	8	8.70	2.80%	20.55%	0.14%	6.45%	2.40%	17.70%	0.12%	6.25%	0	0	18,900	16,901	3	2	88,199	122,444	32,600	2	1	8.00	0.00	8.00	8.00	6.00	6.00
	187		3.75%	19.47%	0.14%	5.53%	3.66%	18.67%	0.15%	5.26%	100	0	635,881	454,909	65	108	1,497,598	2,368,160	754,571	35	19	132.00	42.50	175.50	164.50	138.00	147.00
		6.28	2.80%	16.05%	0.12%	4.00%	2.40%	9.35%	0.12%	0.00%																	
		9.43	6.60%	22.35%	0.16%	6.95%	8.10%	21.30%	0.51%	8.15%	100	0	47,900	35,001	12	8	93,100	157,936	99,700	3	2	9.50	8.00	9.50	9.50	8.00	9.00

Numbers in Red Font are Lab Data

April 2013 Solids Operations Report

2 PM - 10 PM

Date	% Solids Feed (I-3750-85)	% Solids Cake (I-3750-85)	% Solids Filtrate (I-3750-85)	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened (I-3750-85)	GBT % Solids Filtrate (I-3750-85)	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Mon 1	3.90%		0.04%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 2	3.75%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 3	3.70%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 4	3.74%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 5	3.90%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 6	4.04%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 7	4.66%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 8	4.76%		0.20%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 9	5.75%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 10	5.32%	21.21%	0.10%	24,835	22.53	5.51	4.09	98.59%	12.00	0.46	0.10	5.22%	0.10%	87,585	22,101	74.77%	22.53	4.81	4.68	8.00	0.60	0.37
Thu 11	5.41%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 12	5.79%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 13	4.47%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 14	3.80%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 15	3.52%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 16	3.43%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 17	3.34%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 18	3.17%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 19	3.04%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 20	3.05%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 21	3.12%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 22	3.03%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 23	2.83%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 24	2.74%	19.46%	0.09%	16,180	22.53	1.85	12.19	97.16%	8.00	0.23	0.06	5.30%	0.09%	90,312	18,900	79.07%	15.02	4.18	3.60	4.00	1.04	0.34
Thu 25	2.85%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 26	3.09%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 27	ns		ns	0	0.00	ns			0.00	ns				0	0		0.00			0.00		
Sun 28	3.36%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 29	3.41%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 30	2.85%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				41,015	45.06	7.36	6.12	97.87%	20.00	0.69	0.16			177,897	41,001	76.95%	37.55	8.99	4.18	12.00	1.65	0.70
Average =	3.79%	20.34%	0.14%	1,367	1.50	0.25	8.14	97.87%	0.67	0.35	0.01	5.26%	0.10%	5,930	1,367	76.92%	1.25	4.49	4.14	0.40	0.82	0.35
Minimum =	2.74%	19.46%	0.04%	0	0.00	0.00	4.09	97.16%	0.00	0.23	0.00	5.22%	0.09%	0	0	74.77%	0.00	4.18	3.60	0.00	0.60	0.34
Maximum =	5.79%	21.21%	0.20%	24,835	22.53	5.51	12.19	98.59%	12.00	0.46	0.10	5.30%	0.10%	90,312	22,101	79.07%	22.53	4.81	4.68	8.00	1.04	0.37

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

April 2013 Solids Operations Report

2 PM - 10 PM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Mon 1																										
Tue 2																										
Wed 3																										
Thu 4																										
Fri 5																										
Sat 6																										
Sun 7																										
Mon 8																										
Tue 9																										
Wed 10	4									0	0	15,035	9,800	1	2	22,399	65,186	22,101	2	1	4.00	0.00	4.00	4.00	4.00	4.00
Thu 11																										
Fri 12																										
Sat 13																										
Sun 14																										
Mon 15																										
Tue 16																										
Wed 17																										
Thu 18																										
Fri 19																										
Sat 20																										
Sun 21																										
Mon 22																										
Tue 23																										
Wed 24	4									0	0	8,280	7,900	2	1	0	90,312	18,900	2	0	0.00	0.00	4.00	4.00	0.00	4.00
Thu 25																										
Fri 26																										
Sat 27																										
Sun 28																										
Mon 29																										
Tue 30																										
	8									0	0	23,315	17,700	3	3	22,399	155,498	41,001	4	1	4.00	0.00	8.00	8.00	4.00	8.00
	Min:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%																	
	Max:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0	0	15,035	9,800	2	2	22,399	90,312	22,101	2	1	4.00	0.00	4.00	4.00	4.00	4.00

Numbers in Red Font are Lab Data

April 2013 Sludge Inventory Report

Date	Pumped from PSTs to Pri. Dig. (gal)	Pumped from PSTs to Mix Tank (gal)	Total (gal)	Thickened Sludge to Pri. Dig. (gal)	Secondary Sludge to Mix Tank (gal)	Dig 1 (in.)	Dig 2 (in.)	Dig 3 (in.)	Mix Tank (in.)	Dig 4 (in.)	Dig 5 (in.)	Pri.Dig.Sldg. Inventory (gal)	Sec.Dig.Sldg. Inventory (gal)	Transfer (calculated) (gal)	Supernated (gal)	Pressed (gal)	Mix Tank Overflow Potential Calculated (gal)
									0			250,250	145,750				
Mon 1	0	108,236	108,236	59,900	288,000	30	44	23	75	0	36	446,750	99,000	0	0	64,920	0
Tue 2	0	108,295	108,295	57,999	271,000	33	15	42	105	0	21	499,500	57,750	5,249	0	90,972	0
Wed 3	0	109,333	109,333	77,301	377,000	30	45	20	101	0	19	503,650	52,250	73,151	0	68,476	0
Thu 4	0	108,765	108,765	73,499	352,000	33	21	41	103	0	8	508,450	22,000	68,699	0	76,481	0
Fri 5	0	108,759	108,759	54,801	101,000	33	42	18	88	0	4	466,950	11,000	96,301	0	77,865	0
Sat 6	0	110,248	110,248	87,500	163,000	33	21	35	113	0	23	515,950	63,250	38,500	0	37,500	0
Sun 7	0	109,276	109,276	37,500	265,000	30	33	20	0	0	29	228,250	79,750	325,200	0	40,901	0
Mon 8	0	108,731	108,731	86,400	314,000	27	25	42	101	0	18	500,900	49,500	0	0	87,164	0
Tue 9	0	108,586	108,586	64,799	181,000	40	32	31	106	0	5	537,650	13,750	28,049	0	81,260	0
Wed 10	0	109,341	109,341	73,501	326,000	35	18	36	0	0	28	244,750	77,000	366,401	0	59,617	0
Thu 11	0	105,763	105,763	91,499	332,000	16	42	37	86	0	28	467,650	77,000	0	0	85,140	0
Fri 12	0	105,824	105,824	62,701	31,000	50	20	20	90	0	32	463,500	88,000	66,851	0	89,520	0
Sat 13	0	105,702	105,702	73,299	122,000	30	18	38	106	0	41	490,900	112,750	45,899	0	38,199	100,213
Sun 14	0	107,625	107,625	54,000	233,000	27	42	20	0	0	44	244,750	121,000	300,150	0	43,731	0
Mon 15	0	108,429	108,429	80,701	302,000	31	19	42	100	0	19	493,000	52,250	0	0	116,800	0
Tue 16	0	108,315	108,315	65,599	175,000	38	181	28	103	0	18	926,450	49,500	0	0	112,630	0
Wed 17	0	108,258	108,258	91,001	241,000	1	30	20	97	0	37	373,050	101,750	644,401	0	81,500	0
Thu 18	0	106,273	106,273	91,400	325,000	0	41	26	109	0	33	445,850	90,750	18,600	0	63,401	0
Fri 19	0	105,631	105,631	61,300	77,000	14	16	37	98	0	19	419,450	52,250	87,700	0	88,309	0
Sat 20	0	100,215	100,215	99,700	132,000	27	42	22	111	0	30	516,650	82,500	2,500	0	38,800	0
Sun 21	0	106,081	106,081	53,600	232,000	20	39	39	0	0	9	269,500	24,750	300,750	0	55,141	0
Mon 22	0	106,655	106,655	50,069	170,000	20	48	21	100	0	10	484,750	27,500	0	0	117,920	0
Tue 23	0	107,149	107,149	64,701	350,000	20	15	30	102	0	13	423,550	35,750	125,901	0	117,290	0
Wed 24	0	105,810	105,810	79,400	261,000	21	18	17	104	0	18	403,600	49,500	99,350	0	83,720	0
Thu 25	0	106,845	106,845	34,399	276,000	37	16	20	0	0	5	200,750	13,750	237,249	0	21,359	0
Fri 26	0	105,047	105,047	71,601	35,000	23	31	19	105	0	18	452,750	49,500	0	0	60,780	0
Sat 27	0	104,349	104,349	35,999	28,000	17	42	20	0	0	8	217,250	22,000	271,499	0	1,501	0
Sun 28	0	102,015	102,015	62,200	360,000	15	19	39	0	0	17	200,750	46,750	78,700	0	26,871	0
Mon 29	0	107,543	107,543	84,001	331,000	42	21	19	93	0	12	448,700	33,000	0	0	101,639	0
Tue 30	0	129,728	129,728	83,700	355,000	35	20	40	104	0	4	510,850	11,000	21,550	0	78,551	0
	0	3,232,827	3,232,827	2,064,070	7,006,000									3,302,650	0	2,107,958	100,213
Ave:	0	107,761	107,761	68,802	233,533							430,217	55,550	110,088	0	70,265	3,340
Min:	0	100,215	100,215	34,399	28,000							200,750	11,000	0	0	1,501	0
Max:	0	129,728	129,728	99,700	377,000							926,450	121,000	644,401	0	117,920	100,213

Transfer = (change in Primary Sludge Inventory) + (sludge pumped from PSTs to Pri. Dig.) + (Thickened Sludge pumped to Pri. Dig.)

Mix Tank Overflow Potential = (change in Mix Tank level) + gallons from PSTs + secondary sludge (350 gpm) - GBT feed

April 2013 Soluble Sulfides Report

	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	Sludge Processed BFPs	GBTs
1-Apr							64,920	242,191
2-Apr							90,972	426,140
3-Apr							68,476	453,284
4-Apr							76,481	469,869
5-Apr							77,865	414,437
6-Apr							37,500	201,149
7-Apr							40,901	250,635
8-Apr							87,164	430,967
9-Apr							81,260	390,734
10-Apr							59,617	352,125
11-Apr							85,140	487,487
12-Apr							89,520	348,586
13-Apr							38,199	137,689
14-Apr							43,731	218,902
15-Apr							116,800	390,360
16-Apr							112,630	418,357
17-Apr							81,500	314,312
18-Apr							63,401	327,252
19-Apr							88,309	413,192
20-Apr							38,800	192,055
21-Apr							55,141	218,385
22-Apr							117,920	449,308
23-Apr							117,290	476,550
24-Apr							83,720	469,655
25-Apr							21,359	243,080
26-Apr							60,780	441,826
27-Apr							1,501	73,677
28-Apr							26,871	217,419
29-Apr							101,639	481,417
30-Apr							78,551	472,916
Ave:	N/A	N/A	N/A	N/A	N/A	N/A		
Min:	0.000	0.000	0.000	0.000	0.000	0.000		
Max:	0.000	0.000	0.000	0.000	0.000	0.000		

April 2013 Disposal Site Report

Date	Sludge Conestoga (Tons)	Sludge Rolling Hills (Tons)	*** Sludge Advanced Disposal (Tons)	Sludge Pioneer Crossing (Tons)	6th St. (Tons)	Grit (Tons)	Tank Cleanings (Tons)	Scum (Tons)	San Swr Soil (Tons)	Exeter Sludge (Gallons)	Exeter % Solids	Valley Forge Sludge (Gallons)	Valley Forge % Solids	Total Cans Hauled Biosolids
Mon 1			24.76	139.13										8
Tue 2			72.12	88.25										5
Wed 3			137.70	53.23										3
Thu 4			71.69	72.01										4
Fri 5			74.57	70.98										4
Sat 6				18.27										1
Sun 7														
Mon 8			74.96	147.47										8
Tue 9			74.76	91.82	6.06									9
Wed 10			60.16	55.62	14.64									3
Thu 11			68.84	106.72										6
Fri 12				89.58										5
Sat 13				18.58										1
Sun 14														
Mon 15			90.85	147.45										8
Tue 16			71.41	93.57										5
Wed 17			73.54	49.08										3
Thu 18			98.34	51.90										3
Fri 19			76.60	56.04										3
Sat 20				16.96										1
Sun 21														
Mon 22			25.08	125.75										7
Tue 23				69.25		5.43								4
Wed 24				52.79										3
Thu 25				31.23										2
Fri 26				18.45										1
Sat 27				36.07										2
Sun 28														
Mon 29				71.72										4
Tue 30				54.28	5.63									3
Total:	0.00	0.00	1095.38	1826.20	26.33	5.43	0.00	0.00	0.00	0		0		106
Ave:	0.00	0.00	73.03	70.24	8.78	5.43	0.00	0.00	0.00	0		0		
Min:	0.00	0.00	24.76	16.96	5.63	5.43	0.00	0.00	0.00	0		0		
Max:	0.00	0.00	137.70	147.47	14.64	5.43	0.00	0.00	0.00	0		0		

April 2013 Supernating Data

	Digester#4	Gallons Supernated	%Solids	lbs supernated	Digester#5	Gallons Supernated	%Solids	lbs supernated	Total Gallons Supernated	Total lbs Supernated
Mon 1									0	0
Tue 2									0	0
Wed 3									0	0
Thu 4									0	0
Fri 5									0	0
Sat 6									0	0
Sun 7									0	0
Mon 8									0	0
Tue 9									0	0
Wed 10									0	0
Thu 11									0	0
Fri 12									0	0
Sat 13									0	0
Sun 14									0	0
Mon 15									0	0
Tue 16									0	0
Wed 17									0	0
Thu 18									0	0
Fri 19									0	0
Sat 20									0	0
Sun 21									0	0
Mon 22									0	0
Tue 23									0	0
Wed 24									0	0
Thu 25									0	0
Fri 26									0	0
Sat 27									0	0
Sun 28									0	0
Mon 29									0	0
Tue 30									0	0
TOTAL		0		0		0		0	0	0
AVG.										

April 2013 Laboratory Results

	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	% Solids GBT	% Solids GBT Filtrate	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	P1-4 %TS	P1-4 %VS	Dig 4 %TS	Dig 4 %VS	Dig 5 %TS	Dig 5 %VS
1-Apr	3.90%	20.24%	0.04%	4.80%												4.19%	
2-Apr	3.75%	18.80%	0.15%	6.19%													
3-Apr	3.70%	19.69%	0.13%	3.90%								3.04%	78.50%			3.79%	62.84%
4-Apr	3.74%	19.83%	0.15%	3.71%													
5-Apr	3.90%	19.83%	0.16%	5.97%												4.01%	
6-Apr	4.04%	19.92%	0.16%	4.26%													
7-Apr	4.66%	20.32%	0.17%	5.15%													
8-Apr	4.76%	19.86%	0.20%	4.27%												4.47%	
9-Apr	5.75%	19.60%	0.18%	5.38%													
10-Apr	5.32%	21.21%	0.10%	5.22%								3.08%	83.33%			4.73%	65.44%
11-Apr	5.41%	21.22%	0.15%	4.95%													
12-Apr	5.79%	21.70%	0.16%	3.75%												5.02%	
13-Apr	4.47%	19.40%	0.13%	5.21%													
14-Apr	3.80%	20.94%	0.14%	5.67%													
15-Apr	3.52%	19.93%	0.17%	4.90%												3.39%	
16-Apr	3.43%	18.86%	0.17%	5.53%													
17-Apr	3.34%	18.78%	0.14%	6.13%								2.62%	82.89%			0.80%	65.12%
18-Apr	3.17%	19.67%	0.14%	5.95%													
19-Apr	3.04%	19.33%	0.15%	6.56%												2.90%	
20-Apr	3.05%	18.35%	0.13%	4.64%													
21-Apr	3.12%	19.11%	0.15%	5.22%													
22-Apr	3.03%	19.51%	0.17%	5.32%												2.79%	
23-Apr	2.83%	17.96%	0.11%	5.75%													
24-Apr	2.74%	19.46%	0.09%	5.30%								2.97%	75.90%			2.79%	64.56%
25-Apr	2.85%	19.00%	0.15%	5.22%													
26-Apr	3.09%	20.74%	0.13%	6.42%												1.58%	
27-Apr	ns	ns	ns	ns													
28-Apr	3.36%	18.19%	0.12%	4.80%													
29-Apr	3.41%	19.35%	0.14%	6.68%												3.59%	
30-Apr	2.85%	18.58%	0.14%	6.93%													
Avg	3.79%	19.63%	0.14%	5.30%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.93%	80.16%			3.39%	64.49%
Min	2.74%	17.96%	0.04%	3.71%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	3.08%	83.33%	0.00%	0.00%	5.02%	65.44%
Max	5.79%	21.70%	0.20%	6.93%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	2.62%	75.90%	0.00%	0.00%	0.80%	62.84%

CITY OF READING, PENNSYLVANIA

Department of Public Works
Utilities Division
815 Washington Street
Reading, PA 19601-3690

May 15, 2013

PaDEP South-central Regional Office
Water Management Program Manager
909 Elmerton Avenue
Harrisburg, PA 17110-8200

RE: Permit Number: PA 0026549 – Updated March 2013 Solids Report

Dear Sir:

Enclosed is a March 2013 update solids report. This update includes secondary digester #4 cleanout data, dry tons removed from our site during the month of March 2013. The original report submitted with the March 2013 DMR did not include this data, which was not available at the time the DMR was submitted.

Please let me know if you should have any questions regarding this submittal.

Sincerely,

Roger D Hillibush

Roger D. Hillibush,
City of Reading WWTP
Operations Supervisor
Roger.hillibush@readingpa.org

Cc: Ralph E. Johnson, PE – Wastewater Manager
WWTP File

Revised

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* March 2013

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
219.24	X 22.29	X 0.01	= 48.87
0.00	X 21.17	X 0.01	= 0.00
0.00	X 21.17	X 0.01	= 0.00
1,735.97	X 21.17	X 0.01	= 367.50
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 416.37

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	*** Advanced Disposal	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	Carlisle	Berks	Berks	Berks
Permit Number:	561402	100345	101509	100346
Dry Tons Disposed:	48.87	0.00	0.00	367.50
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

*** *Advanced Disposal (formerly known as) Interstate Waste Services*
Digester Cleaning Project performed by outside contractor

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Wastewater Manager
Title

610-655-6258
Telephone

05/15/13
Date

City of Reading 3-C Watershed *for the Month* March 2013

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

CITY OF READING WASTEWATER TREATMENT PLANT

March 2013 Biosolids Report

REVISED

Solids Processing:

	Total
Sludge Pumped from Primary Settling Tanks (gallons):	3,023,003
Secondary Sludge Pumped to Mix Tank (gallons):	7,117,000
Supernated from Secondary Digesters (gallons):	0

Gravity Belt Thickeners:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	6,076,716	4,125,321	10,712	10,212,749
Thickened Sludge (gallons):	1,098,700	790,100	3,200	1,892,000
Polymer (pounds):	833.61	420.56	0.00	1254.17
Solids (dry tons):	243.98	162.71	0.76	407.45
Polymer dosage (pounds/dry ton):	3.42	2.58	0.00	3.08
% Reduction:	81.92%	80.85%	70.13%	81.47%
GBT Solids in Filtrate (dry tons):	6.85	27.50	0.07	34.43
GBT 1 Hours of Operation:	195.00	147.50	0.00	342.50
GBT 2 Hours of Operation:	206.00	154.50	1.00	361.50
Total GBT Hours of Operation:	401.00	302.00	1.00	704.00
Dry tons/hour:	0.61	0.54	0.76	0.58

Belt Filter Presses:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	891,304	981,450	75,300	1,948,054
Polymer (pounds):	901.20	976.30	60.08	1937.58
Solids (dry tons):	160.11	179.87	18.16	358.14
Polymer dosage (pounds/dry ton):	5.63	5.43	3.31	5.41
% Solids Recovery:	93.21%	97.00%	98.07%	96.09%
Solids in Filtrate (dry tons):	5.67	6.46	0.49	12.61
BFP 1 Hours of Operation:	50.00	61.00	0.00	111.00
BFP 2 Hours of Operation:	34.00	44.00	0.00	78.00
BFP 3 Hours of Operation:	192.00	179.50	8.00	379.50
BFP 4 Hours of Operation:	193.00	202.50	8.00	403.50
Total BFP Hours of Operation:	469.00	487.00	16.00	972.00
Dry tons/hour:	0.34	0.37	1.13	0.37

Total Solids in Filtrate (dry tons):	47.03
% Solids (Method 2540 G):	21.17%
*** Total Wet Tons Removed:	1955.21
*** Dry Tons Removed:	416.37
Hours of Operation:	424
Fritz Island Scum Disposed (tons):	0.00
Fritz Island Grit Disposed (tons):	0.00
6th & Canal Grit Disposed (tons):	24.76
Mix Tank Cleaning/Snail Shells Disposed (tons):	30.10
Sanitary Sewer Excavation Soil (tons):	0.00

*** Includes sludge removal by outside contractor during digester cleaning.

March 2013 Biosolids Report

Date	Volatile Solids Reducton PST (VS%)	Sec Dig (VS%)	VSR (%)	% Solids Feed	Cake (I-3750-85)	Filtrate	Thickened	GBT Filtrate	Polymer (lbs)	BFP Feed (gal)	Solids (dry tons)	Polymer Dose lb/dry ton	Wet Tons	6th St.	Grit	Snail Shells	Scum	Supernated (gpd)	GBT Feed (gal)	Thickened (gal)	GBT Poly (lbs)	Date
Fri 1				2.59%	19.72%	0.15%	6.38%	0.15%	37.55	48,988	5.29	7.10	36.56					0	406,875	51,300	45.06	Fri 1
Sat 2				3.39%	19.99%	0.16%	4.55%	0.16%	30.04	34,590	4.89	6.14	16.03					0	181,180	74,000	15.02	Sat 2
Sun 3				3.46%	20.12%	0.21%	5.60%	0.21%	30.04	28,515	4.11	7.30						0	205,856	48,500	37.55	Sun 3
Mon 4				4.15%	20.00%	0.18%	4.86%	0.18%	60.08	53,578	9.27	6.48	80.36					0	362,095	70,100	45.06	Mon 4
Tue 5				4.29%	21.47%	0.18%	7.11%	0.18%	82.61	79,405	14.20	5.82	63.43					0	407,051	61,600	60.08	Tue 5
Wed 6	83.49%	53.33%	77.40%	3.29%	20.68%	0.08%	4.48%	0.08%	90.12	95,737	13.13	6.86	68.56					0	390,412	48,400	37.55	Wed 6
Thu 7				3.47%	23.26%	0.13%	5.70%	0.13%	97.63	96,356	13.94	7.00	65.33	6.03				0	368,157	67,300	45.06	Thu 7
Fri 8				2.94%	22.63%	0.15%	5.91%	0.15%	82.61	87,232	10.69	7.72	67.40					0	430,579	67,300	52.57	Fri 8
Sat 9				4.82%	19.99%	0.18%	3.95%	0.18%	30.04	34,575	6.95	4.32	15.72					0	177,384	65,500	15.02	Sat 9
Sun 10				2.72%	21.00%	0.13%	5.42%	0.13%	22.53	31,762	3.60	6.25						0	203,319	46,000	37.55	Sun 10
Mon 11				3.98%	19.92%	0.14%	5.84%	0.14%	90.12	94,341	15.66	5.76	87.36					0	404,659	71,500	52.57	Mon 11
Tue 12				3.83%	20.29%	0.16%	5.58%	0.16%	97.63	121,326	19.38	5.04	68.19					0	426,780	64,900	60.08	Tue 12
Wed 13	76.25%	64.44%	43.56%	4.15%	22.14%	0.17%	5.88%	0.17%	82.61	77,918	13.48	6.13	70.88					0	417,098	69,400	45.06	Wed 13
Thu 14				4.92%	21.70%	0.14%	4.44%	0.14%	75.10	76,000	15.59	4.82	72.40	12.92				0	347,005	67,900	37.55	Thu 14
Fri 15				4.81%	22.74%	0.20%	6.14%	0.20%	60.08	74,292	14.90	4.03	88.06					0	430,725	62,000	45.06	Fri 15
Sat 16				6.08%	20.90%	0.15%	4.05%	0.15%	15.02	17,400	4.41	3.40	33.24					0	170,154	78,300	22.53	Sat 16
Sun 17				5.70%	20.78%	0.16%	4.80%	0.16%	30.04	28,540	6.78	4.43						0	222,103	46,000	30.04	Sun 17
Mon 18				5.45%	20.92%	0.14%	5.77%	0.14%	60.08	62,183	14.13	4.25	85.63					0	440,356	66,800	52.57	Mon 18
Tue 19				5.84%	22.42%	0.16%	5.66%	0.16%	135.18	132,193	32.19	4.20	102.57					0	349,980	56,000	45.06	Tue 19
Wed 20	77.32%			5.63%	20.88%	0.14%	6.49%	0.14%	127.67	109,335	25.67	4.97	158.31					0	325,098	52,100	45.06	Wed 20
Thu 21				5.24%	23.21%	0.17%	4.52%	0.17%	82.61	65,576	14.33	5.77	104.44					0	333,128	56,600	45.06	Thu 21
Fri 22				4.99%	21.44%	0.16%	5.66%	0.16%	52.57	52,899	11.01	4.78	50.97					0	311,483	53,300	30.04	Fri 22
Sat 23				6.00%	22.46%	0.19%	4.14%	0.19%	22.53	30,201	7.56	2.98	17.82	5.81				0	175,996	72,100	30.04	Sat 23
Sun 24				6.24%	21.12%	0.09%	4.99%	0.09%	30.04	29,180	7.59	3.96						0	185,615	45,500	30.04	Sun 24
Mon 25				4.74%	21.78%	0.17%	7.89%	0.17%	45.06	35,399	7.00	6.44	106.78			30.10		0	269,085	31,100	30.04	Mon 25
Tue 26				5.81%	23.10%	0.19%	5.51%	0.19%	60.08	62,700	15.19	3.96	88.75					0	417,472	61,500	52.57	Tue 26
Wed 27	80.00%			5.14%	21.35%	0.19%	5.78%	0.19%	75.10	68,240	14.63	5.13	133.37					0	469,512	65,799	52.57	Wed 27
Thu 28				4.65%	20.92%	0.17%	4.44%	0.17%	60.08	62,501	12.12	4.96	137.09					0	472,768	72,200	45.06	Thu 28
Fri 29				2.25%	19.15%	0.14%	5.32%	0.14%	97.63	81,399	7.64	12.78	117.47					0	452,449	68,100	52.57	Fri 29
Sat 30				3.99%	20.10%	0.15%	4.68%	0.15%	30.04	37,701	6.27	4.79	18.49					0	222,107	79,401	30.04	Sat 30
Sun 31				4.11%	20.12%	0.15%	4.76%	0.15%	45.06	37,992	6.51	6.92						0	236,268	51,500	30.04	Sun 31
Total:					656.30%				1,937.58	1,948,054	358.14	5.41	1955.21	24.76	0.00	30.10	0.00	0	10,212,749	1,892,000	1254.17	
Ave:	79.27%	58.89%	60.48%	4.47%	21.17%	0.16%	5.36%	0.16%	62.50	62,840	11.55	5.63	75.20	8.25	0.00	30.10	0.00	0	329,444	61,032	40.46	
Min:	76.25%	53.33%	43.56%	2.25%	19.15%	0.08%	3.95%	0.08%	15.02	17,400	3.60	2.98	15.72									
Max:	83.49%	64.44%	77.40%	6.24%	23.26%	0.21%	7.89%	0.21%	135.18	132,193	32.19	12.78	158.31									

Operational Dry Tons, Cake =	1735.97	x	21.17	x	0.01 =	367.5 dry tons
Digester Cleaning, Cake =	219.24	x	22.29	x	0.01 =	48.87 dry tons

Total Dry Tons, Cake =	1955.21	416.37 dry tons

March 2013 Solids Operations Report

10 PM - 6 AM

Date	BFP % Solids (I-3750-85)			Belt Filter Press								GBT % Solids (I-3750-85)		Gravity Belt Thickener							
	Feed	Cake	Filtrate	Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	Thickened	Filtrate	Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Fri 1	2.59%	19.72%	0.15%	31,610	30.04	3.41	8.80	94.93%	17.00	0.20	0.20	6.38%	0.15%	248,954	37,700	84.86%	30.04	10.03	3.00	16.00	0.63	0.235814
Sat 2	3.39%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 3	3.46%	20.12%	0.21%	28,515	30.04	4.11	7.30	94.92%	14.00	0.29	0.25	5.60%	0.21%	205,856	48,500	76.44%	37.55	11.33	3.32	14.00	0.81	0.424715
Mon 4	4.15%	20.00%	0.18%	8,424	7.51	1.46	5.15	96.53%	6.00	0.24	0.06	4.86%	0.18%	228,119	50,000	78.08%	37.55	10.13	3.71	16.00	0.63	0.3753
Tue 5	4.29%	21.47%	0.18%	39,904	37.55	7.14	5.26	96.61%	14.00	0.51	0.30	7.11%	0.18%	235,961	43,200	81.69%	37.55	12.81	2.93	16.00	0.80	0.324259
Wed 6	3.29%	20.68%	0.08%	48,445	45.06	6.65	6.78	97.95%	15.00	0.44	0.16	4.48%	0.08%	231,065	29,700	87.15%	30.04	5.55	5.41	16.00	0.35	0.099079
Thu 7	3.47%	23.26%	0.13%	49,049	52.57	7.10	7.41	96.79%	24.00	0.30	0.27	5.70%	0.13%	233,934	43,600	81.36%	37.55	10.36	3.62	16.00	0.65	0.236356
Fri 8	2.94%	22.63%	0.15%	42,927	45.06	5.26	8.56	95.53%	24.00	0.22	0.27	5.91%	0.15%	246,490	39,400	84.02%	37.55	9.71	3.87	16.00	0.61	0.246447
Sat 9	4.82%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 10	2.72%	21.00%	0.13%	31,762	22.53	3.60	6.25	95.81%	16.00	0.23	0.17	5.42%	0.13%	203,319	46,000	77.38%	37.55	10.40	3.61	16.00	0.65	0.249366
Mon 11	3.98%	19.92%	0.14%	40,451	37.55	6.71	5.59	97.17%	17.00	0.39	0.24	5.84%	0.14%	230,476	48,700	78.87%	30.04	11.86	2.53	16.00	0.74	0.284311
Tue 12	3.83%	20.29%	0.16%	63,994	60.08	10.22	5.88	96.58%	32.00	0.32	0.43	5.58%	0.16%	239,265	41,600	82.61%	37.55	9.68	3.88	16.00	0.60	0.277555
Wed 13	4.15%	22.14%	0.17%	34,692	30.04	6.00	5.00	96.65%	32.00	0.19	0.25	5.88%	0.17%	246,730	44,800	81.84%	22.53	10.98	2.05	16.00	0.69	0.317587
Thu 14	4.92%	21.70%	0.14%	33,900	30.04	6.96	4.32	97.79%	32.00	0.22	0.20	4.44%	0.14%	228,021	37,200	83.69%	22.53	6.89	3.27	16.00	0.43	0.217174
Fri 15	4.81%	22.74%	0.20%	36,392	30.04	7.30	4.12	96.69%	31.00	0.24	0.30	6.14%	0.20%	259,571	42,400	83.67%	30.04	10.86	2.77	16.00	0.68	0.353616
Sat 16	6.08%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 17	5.70%	20.78%	0.16%	28,540	30.04	6.78	4.43	97.95%	16.00	0.42	0.19	4.80%	0.16%	222,103	46,000	79.29%	30.04	9.21	3.26	16.00	0.58	0.306912
Mon 18	5.45%	20.92%	0.14%	33,783	30.04	7.68	3.91	98.09%	17.00	0.45	0.20	5.77%	0.14%	252,760	44,100	82.55%	37.55	10.61	3.54	16.00	0.66	0.257456
Tue 19	5.84%	22.42%	0.16%	33,593	37.55	8.18	4.59	97.96%	10.00	0.82	0.22	5.66%	0.16%	212,366	40,400	80.98%	37.55	9.54	3.94	10.00	0.95	0.269549
Wed 20	5.63%	20.88%	0.14%	48,435	52.57	11.37	4.62	98.17%	16.00	0.71	0.28	6.49%	0.14%	249,472	43,200	82.68%	37.55	11.69	3.21	11.00	1.06	0.252202
Thu 21	5.24%	23.21%	0.17%	35,975	37.55	7.86	4.78	97.47%	16.00	0.49	0.26	4.52%	0.17%	229,761	39,100	82.98%	30.04	7.37	4.08	16.00	0.46	0.27718
Fri 22	4.99%	21.44%	0.16%	24,300	22.53	5.06	4.46	97.52%	10.00	0.51	0.16	5.66%	0.16%	200,359	38,100	80.98%	22.53	8.99	2.51	16.00	0.56	0.254203
Sat 23	6.00%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 24	6.24%	21.12%	0.09%	29,180	30.04	7.59	3.96	98.98%	16.00	0.47	0.11	4.99%	0.09%	185,615	45,500	75.49%	30.04	9.47	3.17	16.00	0.59	0.170762
Mon 25	4.74%	21.78%	0.17%	3,400	7.51	0.67	11.17	97.17%	16.00	0.04	0.02	7.89%	0.17%	226,181	27,500	87.84%	22.53	9.05	2.49	16.00	0.57	0.194948
Tue 26	5.81%	23.10%	0.19%	25,501	30.04	6.18	4.86	97.53%	14.00	0.44	0.20	5.51%	0.19%	233,901	43,600	81.36%	30.04	10.02	3.00	16.00	0.63	0.345443
Wed 27	5.14%	21.35%	0.19%	33,040	37.55	7.08	5.30	97.17%	16.00	0.44	0.26	5.78%	0.19%	272,569	43,299	84.11%	30.04	10.44	2.88	16.00	0.65	0.343058
Thu 28	4.65%	20.92%	0.17%	28,801	37.55	5.58	6.72	97.13%	16.00	0.35	0.20	4.44%	0.17%	257,196	41,600	83.83%	30.04	7.70	3.90	16.00	0.48	0.294902
Fri 29	2.25%	19.15%	0.14%	38,699	45.06	3.63	12.41	94.47%	18.00	0.20	0.23	5.32%	0.14%	260,404	42,001	83.87%	37.55	9.32	4.03	16.00	0.58	0.245202
Sat 30	3.99%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 31	4.11%		0.15%	37,992	45.06	6.51	6.92	0.00%	14.00		0.24			236,268	51,500		30.04			14.00		
Total =				891,304	901.20	160.11	5.63	93.21%	469.00	9.14	5.67			6,076,716	1,098,700	81.92%	833.61	243.98	3.42	401.00	16.04	6.85
Average =	4.47%	21.31%	0.16%	28,752	29.07	5.16	6.10	93.21%	15.13	0.37	0.18	5.61%	0.16%	196,023	35,442	81.90%	26.89	9.76	3.36	12.94	0.64	0.27
Minimum =	2.25%	19.15%	0.08%	0	0.00	0.00	3.91	0.00%	0.00	0.04	0.00	4.44%	0.08%	0	0	75.49%	0.00	5.55	2.05	0.00	0.35	0.10
Maximum =	6.24%	23.26%	0.21%	63,994	60.08	11.37	12.41	98.98%	32.00	0.82	0.43	7.89%	0.21%	272,569	51,500	87.84%	37.55	12.81	5.41	16.00	1.06	0.42

(%feed)(%cake - %filtrate)

March 2013 Solids Operations Report

10 PM - 6 AM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd Sludge	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Fri 1	8	2.30%	18.71%	0.51%	4.72%	2.95%	18.83%	0.14%	4.91%	0	0	16410	15200	2	2	97,800	151,154	37,700	2	2	0.00	1.00	8.00	8.00	8.00	8.00
Sat 2																										
Sun 3	8	3.90%	19.20%	0.16%	4.82%	4.18%	19.73%	0.15%	4.95%	0	0	13714	14801	2	2	84,500	121,356	48,500	3	2	0.00	0.00	7.00	7.00	7.00	7.00
Mon 4	8				4.68%				5.12%	0	0	3425	4999	0	1	95,900	132,219	50,000	3	2	0.00	0.00	3.00	3.00	8.00	8.00
Tue 5	8	4.18%	24.05%	0.16%	4.68%	3.85%	19.27%	0.15%	4.86%	0	0	26204	13700	3	2	96,000	139,961	43,200	3	2	0.00	0.00	7.00	7.00	8.00	8.00
Wed 6	8	3.86%	19.81%	0.15%	4.54%	2.90%	22.16%	0.17%	5.28%	0	0	29345	19100	3	3	96,500	134,565	29,700	2	2	0.00	0.00	7.00	8.00	8.00	8.00
Thu 7	8	2.80%	19.96%	0.16%	4.48%	2.75%	20.76%	0.15%	4.88%	0	0	31149	17900	3	4	98,000	135,934	43,600	3	2	8.00	0.00	8.00	8.00	8.00	8.00
Fri 8	8	4.32%	22.23%	0.16%	4.48%	2.45%	20.08%	0.17%	4.61%	0	0	25128	17799	3	3	102,200	144,290	39,400	3	2	8.00	0.00	8.00	8.00	8.00	8.00
Sat 9																										
Sun 10	8	3.07%	19.76%	0.16%	4.81%	2.75%	20.75%	0.16%	4.65%	0	0	15663	16099	2	1	80,900	122,419	46,000	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Mon 11	8	3.10%	19.87%	0.15%	4.79%	3.47%	20.18%	0.16%	4.94%	0	0	21450	19001	3	2	92,600	137,876	48,700	3	1	1.00	0.00	8.00	8.00	8.00	8.00
Tue 12	8	3.41%	19.69%	0.16%	4.89%	3.18%	20.12%	0.15%	4.76%	0	0	30494	33500	3	5	96,500	142,765	41,600	3	2	8.00	8.00	8.00	8.00	8.00	8.00
Wed 13	8	3.75%	23.23%	0.15%	4.97%	3.90%	21.74%	0.16%	5.18%	0	0	15192	19500	1	3	106,100	140,630	44,800	2	1	8.00	8.00	8.00	8.00	8.00	8.00
Thu 14	8	4.57%	24.48%	0.17%	4.81%	4.71%	20.08%	0.15%	4.91%	0	0	16000	17900	2	2	88,100	139,921	37,200	2	1	8.00	8.00	8.00	8.00	8.00	8.00
Fri 15	8	4.80%	22.30%	0.15%	4.91%	4.70%	22.60%	0.51%	4.60%	0	0	17592	18800	2	2	103,400	156,171	42,400	3	1	7.00	8.00	8.00	8.00	8.00	8.00
Sat 16																										
Sun 17	8	4.80%	19.95%	0.16%	4.83%	4.70%	20.55%	0.15%	4.80%	0	0	13440	15100	0	4	97,100	125,003	46,000	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Mon 18	8	4.98%	19.60%	0.15%	4.86%	5.05%	20.00%	0.14%	4.35%	0	0	15984	17799	0	4	116,901	135,859	44,100	3	2	0.00	1.00	8.00	8.00	8.00	8.00
Tue 19	8	5.00%	24.90%	0.15%	4.89%	5.26%	21.60%	0.14%	4.85%	0	0	16692	16901	1	4	24,800	187,566	40,400	4	1	0.00	0.00	5.00	5.00	2.00	8.00
Wed 20	8	5.05%	21.10%	0.15%	4.86%	5.59%	21.40%	0.16%	4.30%	0	0	29736	18699	3	4	57,400	192,072	43,200	4	1	0.00	0.00	8.00	8.00	3.00	8.00
Thu 21	8	5.05%	19.10%	0.17%	4.68%	5.22%	20.18%	0.15%	4.60%	0	0	18075	17900	1	4	91,900	137,861	39,100	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Fri 22	8	4.65%	18.50%	0.16%	4.64%	4.45%	20.80%	0.15%	4.90%	0	0	11400	12900	1	2	82,701	117,658	38,100	2	1	0.00	0.00	5.00	5.00	8.00	8.00
Sat 23																										
Sun 24	8	5.85%	20.40%	0.16%	4.75%	6.05%	20.50%	0.15%	4.50%	0	0	14580	14600	2	2	73,300	112,315	45,500	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Mon 25	8				4.98%				6.10%	0	0	1800	1600	0	1	46,200	179,981	27,500	2	1	0.00	0.00	8.00	8.00	8.00	8.00
Tue 26	8	5.60%	18.87%	0.16%	4.89%	5.60%	22.35%	0.15%	4.60%	0	0	13000	12501	2	2	84,199	149,702	43,600	3	1	0.00	0.00	7.00	7.00	8.00	8.00
Wed 27	8	5.05%	21.65%	0.16%	5.08%	4.80%	20.55%	0.15%	4.60%	0	0	15840	17200	3	2	118,500	154,069	43,299	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Thu 28	8	4.70%	19.65%	0.15%	4.86%	4.70%	21.15%	0.14%	4.60%	0	0	12000	16801	3	2	109,700	147,496	41,600	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Fri 29	8	4.50%	20.60%	0.14%	4.96%	4.00%	20.70%	0.14%	4.55%	0	0	18900	19799	3	3	107,599	152,805	42,001	3	2	2.00	0.00	8.00	8.00	8.00	8.00
Sat 30																										
Sun 31	8	4.10%	19.50%	0.15%	4.78%	4.00%	20.10%	0.15%	4.95%	0	0	18192	19800	3	3	106,899	129,369	51,500	2	2	0.00	0.00	7.00	7.00	7.00	7.00
	208	4.31%	20.71%	0.17%	4.79%	4.22%	20.67%	0.17%	4.82%	0	0	461405	429899	51	69	2,355,699	3,721,017	1,098,700	71	40	50.00	34.00	192.00	193.00	195.00	206.00
	Min:	2.30%	18.50%	0.14%	4.48%	2.45%	18.83%	0.14%	4.30%																	
	Max:	5.85%	24.90%	0.51%	5.08%	6.05%	22.60%	0.51%	6.10%	0	0	31149	33500	3	5	118,500	192,072	51,500	4	2	8.00	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

March 2013 Solids Operations Report

6 AM - 2 PM

Date	% Solids (I-3750-85) Feed	Cake	Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids (I-3750-85) Thickened	Filtrate	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Fri 1	2.59%	19.72%	0.15%	17,378	7.51	1.88	4.00	94.93%	16.00	0.12	0.11	6.38%	0.15%	157,921	13,600	91.39%	15.02	3.62	4.15	12.00	0.30	0.99
Sat 2	3.39%	19.99%	0.16%	34,590	30.04	4.89	6.14	96.05%	17.50	0.28	0.23	4.55%	0.16%	181,180	74,000	59.16%	15.02	14.04	1.07	13.00	1.08	1.21
Sun 3	3.46%		0.21%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 4	4.15%	20.00%	0.18%	45,154	52.57	7.81	6.73	96.53%	18.00	0.43	0.34	4.86%	0.18%	133,976	20,100	85.00%	7.51	4.07	1.84	8.00	0.51	1.01
Tue 5	4.29%	21.47%	0.18%	39,501	45.06	7.07	6.38	96.61%	16.00	0.44	0.30	7.11%	0.18%	171,090	18,400	89.25%	22.53	5.46	4.13	10.00	0.55	1.28
Wed 6	3.29%	20.68%	0.08%	47,292	45.06	6.49	6.94	97.95%	16.00	0.41	0.16	4.48%	0.08%	159,347	18,700	88.26%	7.51	3.49	2.15	10.00	0.35	0.53
Thu 7	3.47%	23.26%	0.13%	47,307	45.06	6.85	6.58	96.79%	24.00	0.29	0.26	5.70%	0.13%	134,223	23,700	82.34%	7.51	5.63	1.33	12.00	0.47	0.73
Fri 8	2.94%	22.63%	0.15%	44,305	37.55	5.43	6.91	95.53%	24.00	0.23	0.28	5.91%	0.15%	184,089	27,900	84.84%	15.02	6.88	2.18	14.00	0.49	1.15
Sat 9	4.82%	19.99%	0.18%	34,575	30.04	6.95	4.32	97.14%	22.00	0.32	0.26	3.95%	0.18%	177,384	65,500	63.07%	15.02	10.79	1.39	15.00	0.72	1.33
Sun 10	2.72%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 11	3.98%	19.92%	0.14%	53,890	52.57	8.94	5.88	97.17%	32.00	0.28	0.31	5.84%	0.14%	174,183	22,800	86.91%	22.53	5.55	4.06	13.00	0.43	1.02
Tue 12	3.83%	20.29%	0.16%	57,332	37.55	9.16	4.10	96.58%	32.00	0.29	0.38	5.58%	0.16%	187,515	23,300	87.57%	22.53	5.42	4.16	13.00	0.42	1.25
Wed 13	4.15%	22.14%	0.17%	43,226	52.57	7.48	7.03	96.65%	32.00	0.23	0.31	5.88%	0.17%	170,368	24,600	85.56%	22.53	6.03	3.74	12.00	0.50	1.21
Thu 14	4.92%	21.70%	0.14%	42,100	45.06	8.64	5.22	97.79%	28.00	0.31	0.25	4.44%	0.14%	118,984	30,700	74.20%	15.02	5.68	2.64	11.00	0.52	0.69
Fri 15	4.81%	22.74%	0.20%	37,900	30.04	7.60	3.95	96.69%	23.00	0.33	0.32	6.14%	0.20%	171,154	19,600	88.55%	15.02	5.02	2.99	12.00	0.42	1.43
Sat 16	6.08%	20.90%	0.15%	17,400	15.02	4.41	3.40	98.24%	9.00	0.49	0.11	4.05%	0.15%	170,154	78,300	53.98%	22.53	13.22	1.70	12.00	1.10	1.06
Sun 17	5.70%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 18	5.45%	20.92%	0.14%	28,400	30.04	6.45	4.65	98.09%	17.00	0.38	0.17	5.77%	0.14%	187,596	22,700	87.90%	15.02	5.46	2.75	13.00	0.42	1.10
Tue 19	5.84%	22.42%	0.16%	44,100	52.57	10.74	4.89	97.96%	8.00	1.34	0.29	5.66%	0.16%	126,902	12,400	90.23%	7.51	2.93	2.57	4.00	0.73	0.85
Wed 20	5.63%	20.88%	0.14%	40,100	60.08	9.41	6.38	98.17%	14.00	0.67	0.23	6.49%	0.14%	75,626	8,900	88.23%	7.51	2.41	3.12	3.00	0.80	0.44
Thu 21	5.24%	23.21%	0.17%	29,601	45.06	6.47	6.97	97.47%	8.00	0.81	0.21	4.52%	0.17%	103,367	17,500	83.07%	15.02	3.30	4.55	6.00	0.55	0.73
Fri 22	4.99%	21.44%	0.16%	28,599	30.04	5.95	5.05	97.52%	7.00	0.85	0.19	5.66%	0.16%	111,124	15,200	86.32%	7.51	3.59	2.09	8.00	0.45	0.74
Sat 23	6.00%	22.46%	0.19%	30,201	22.53	7.56	2.98	97.66%	16.00	0.47	0.24	4.14%	0.19%	175,996	72,100	59.03%	30.04	12.45	2.41	16.00	0.78	1.39
Sun 24	6.24%		0.09%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 25	4.74%	21.78%	0.17%	31,999	37.55	6.32	5.94	97.17%	16.00	0.40	0.23	7.89%	0.17%	42,904	3,600	91.61%	7.51	1.18	6.34	16.00	0.07	0.30
Tue 26	5.81%	23.10%	0.19%	37,199	30.04	9.01	3.33	97.53%	19.50	0.46	0.29	5.51%	0.19%	183,571	17,900	90.25%	22.53	4.11	5.48	14.00	0.29	1.45
Wed 27	5.14%	21.35%	0.19%	35,200	37.55	7.54	4.98	97.17%	16.00	0.47	0.28	5.78%	0.19%	196,943	22,500	88.58%	22.53	5.42	4.15	12.00	0.45	1.56
Thu 28	4.65%	20.92%	0.17%	33,700	22.53	6.53	3.45	97.13%	16.00	0.41	0.24	4.44%	0.17%	215,572	30,600	85.81%	15.02	5.67	2.65	13.00	0.44	1.53
Fri 29	2.25%	19.15%	0.14%	42,700	52.57	4.01	13.12	94.47%	24.00	0.17	0.25	5.32%	0.14%	192,045	26,099	86.41%	15.02	5.79	2.59	14.00	0.41	1.12
Sat 30	3.99%	20.10%	0.15%	37,701	30.04	6.27	4.79	96.96%	16.00	0.39	0.24	4.68%	0.15%	222,107	79,401	64.25%	30.04	15.50	1.94	16.00	0.97	1.39
Sun 31	4.11%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				981,450	976.30	179.87	5.43	97.00%	487.00	11.26	6.46			4,125,321	790,100	80.85%	420.56	162.71	2.58	302.00	14.22	27.50
Average =	4.47%	21.28%	0.16%	31,660	31.49	5.80	5.54	97.00%	15.71	0.43	0.21	5.41%	0.16%	133,075	25,487	81.61%	13.57	6.26	3.01	9.74	0.55	1.06
Minimum =	2.25%	19.15%	0.08%	0	0.00	0.00	2.98	94.47%	0.00	0.12	0.00	3.95%	0.08%	0	0	53.98%	0.00	1.18	1.07	0.00	0.07	0.30
Maximum =	6.24%	23.26%	0.21%	57,332	60.08	10.74	13.12	98.24%	32.00	1.34	0.38	7.89%	0.20%	222,107	79,401	91.61%	30.04	15.50	6.34	16.00	1.10	1.56

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

March 2013 Solids Operations Report

6 AM - 2 PM

Date	Hours of Operation	Mix Tank Level	% Solids								BFP Sludge Processed				BFP Polymer				Thickn'd Sludge	GBT Polymer		Hours of Operation					
			1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Fri 1	8	7.93	3.20%	19.28%	0.15%	6.45%					0	0	8,879	8,499	1	0	59,600	98,321	13,600	2	0	0.00	0.00	8.00	8.00	6.00	6.00
Sat 2	8	8.89	3.25%	17.99%	0.14%	4.71%	3.25%	19.65%	0.12%	5.40%	0	0	17,790	16,800	2	2	77,500	103,680	74,000	1	1	0.00	1.50	8.00	8.00	6.50	6.50
Sun 3																											
Mon 4	8	8.11	4.25%	19.54%	0.16%	5.46%	4.25%	19.23%	0.14%		0	0	27,053	18,101	4	3	56,100	77,876	20,100	1	0	0.00	0.00	9.00	9.00	4.00	4.00
Tue 5	8	8.63	4.30%	20.15%	0.16%	6.45%	4.00%	20.54%	0.14%	5.93%	0	0	22,901	16,600	2	4	74,900	96,190	18,400	2	1	0.00	0.00	8.00	8.00	5.00	5.00
Wed 6	8	8.00	4.10%	21.61%	0.16%	6.51%	4.50%	22.05%	0.15%	5.14%	0	0	28,792	18,500	3	3	64,300	95,047	18,700	1	0	0.00	0.00	8.00	8.00	5.00	5.00
Thu 7	8	9.35	4.50%	19.93%	0.16%	3.89%	4.00%	20.09%	0.15%		0	0	30,507	16,800	3	3	56,000	78,223	23,700	1	0	8.00	0.00	8.00	8.00	6.00	6.00
Fri 8	8	8.50	4.50%	21.27%	5.99%					4.72%	0	0	22,905	21,400	3	2	102,699	81,390	27,900	1	1	8.00	0.00	8.00	8.00	7.00	7.00
Sat 9	8	8.54	5.25%	19.64%	0.16%	4.20%	3.95%	18.69%	0.15%	3.73%	0	0	19,074	15,501	1	3	81,001	96,383	65,500	1	1	6.00	0.00	8.00	8.00	7.50	7.50
Sun 10																											
Mon 11	8	7.88	4.80%	19.52%	0.16%	6.77%	4.00%	19.98%	0.15%	6.85%	0	0	31,390	22,500	3	4	69,800	104,383	22,800	2	1	8.00	8.00	8.00	8.00	6.50	6.50
Tue 12	8	8.30	3.75%	19.41%	0.15%	5.88%	4.20%	19.57%	0.51%	5.83%	0	0	23,032	34,300	2	3	73,100	114,415	23,300	2	1	8.00	8.00	8.00	8.00	6.50	6.50
Wed 13	8	8.53	4.50%	20.04%	0.15%	6.25%	3.85%	22.26%	0.15%	5.58%	0	0	17,626	25,600	3	4	71,100	99,268	24,600	2	1	8.00	8.00	8.00	8.00	6.00	6.00
Thu 14	8	7.25	4.25%	23.00%	0.14%	4.80%	4.20%	22.15%	0.14%	5.00%	0	0	20,000	22,100	2	4	45,000	73,984	30,700	1	1	7.00	7.00	7.00	7.00	5.50	5.50
Fri 15	8	8.05	4.25%	22.00%	0.14%	6.85%	5.40%	22.20%	0.15%		0	0	16,000	21,900	1	3	71,100	100,054	19,600	1	1	0.00	7.00	8.00	8.00	6.00	6.00
Sat 16	8	8.45	6.00%	20.15%	5.15%					4.90%	0	0	8,000	9,400	0	2	78,899	91,255	78,300	2	1	0.00	0.00	4.50	4.50	6.00	6.00
Sun 17																											
Mon 18	8	8.24	5.25%	21.10%	0.14%	6.85%	4.75%	20.80%	0.15%	6.65%	0	0	13,500	14,900	0	4	87,500	100,096	22,700	1	1	0.00	1.00	8.00	8.00	6.50	6.50
Tue 19	8	7.04	7.05%	18.40%	0.16%	7.20%	5.15%	21.15%	0.15%	4.75%	0	0	22,500	21,600	2	5	0	126,902	12,400	1	0	0.00	0.00	0.00	8.00	0.00	4.00
Wed 20	8	6.95	5.45%	18.60%	0.16%	6.60%	5.55%	19.55%	0.15%		0	0	19,500	20,600	3	5	0	75,626	8,900	1	0	0.00	0.00	6.00	8.00	0.00	3.00
Thu 21	8	8.01	5.30%	22.30%	0.16%	5.05%	5.25%	22.80%	0.16%		0	0	16,500	13,101	4	2	42,099	61,268	17,500	1	1	0.00	0.00	0.00	8.00	3.00	3.00
Fri 22	8	7.51	5.40%	19.50%	0.15%	6.55%	5.10%	20.45%	0.15%		0	0	13,500	15,099	2	2	44,400	66,724	15,200	1	0	0.00	0.00	1.00	6.00	4.00	4.00
Sat 23	8	8.94	5.40%	20.10%	0.16%	3.85%	6.10%	21.75%	0.14%	4.75%	0	0	14,500	15,701	2	1	60,800	115,196	72,100	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Sun 24																											
Mon 25	8	5.91	5.20%	21.45%	0.15%		4.45%	21.85%	0.15%		0	0	15,500	16,499	3	2	3,800	39,104	3,600	1	0	0.00	0.00	8.00	8.00	8.00	8.00
Tue 26	8	8.54	5.15%	23.30%	0.15%	4.20%	5.45%	21.15%	0.15%	5.60%	0	0	18,000	19,199	2	2	71,201	112,370	17,900	1	2	0.00	3.50	8.00	8.00	7.00	7.00
Wed 27	8	8.16	6.15%	23.35%	0.16%	6.15%	4.75%	20.00%	0.14%	5.35%	0	0	17,000	18,200	2	3	85,200	111,743	22,500	2	1	0.00	0.00	8.00	8.00	6.00	6.00
Thu 28	8	8.56	4.55%	22.50%	0.14%	6.05%	4.05%	18.85%	0.14%	4.65%	0	0	14,500	19,200	1	2	89,300	126,272	30,600	1	1	0.00	0.00	8.00	8.00	6.50	6.50
Fri 29	8	8.87	4.05%	19.15%	0.13%	7.35%	3.90%	20.15%	0.21%	5.10%	200	0	23,500	19,000	2	5	80,500	111,545	26,099	2	0	8.00	0.00	8.00	8.00	7.00	7.00
Sat 30	8	9.14	3.70%	18.85%	0.14%	5.25%	3.60%	19.80%	0.12%	4.40%	0	0	18,500	19,201	2	2	97,001	125,106	79,401	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Sun 31																											
	208		4.75%	20.47%	0.57%	5.80%	4.51%	20.64%	0.16%	5.24%	200	0	500,949	480,301	55	75	1,642,900	2,482,421	790,100	36	20	61.00	44.00	179.50	202.50	147.50	154.50
		5.91	3.20%	17.99%	0.13%	3.85%	3.25%	18.69%	0.12%	3.73%																	
		9.35	7.05%	23.35%	5.99%	7.35%	6.10%	22.80%	0.51%	6.85%	200	0	31,390	34,300	4	5	102,699	126,902	79,401	2	2	8.00	8.00	9.00	9.00	8.00	8.00

Numbers in Red Font are Lab Data

March 2013 Solids Operations Report

2 PM - 10 PM

Date	% Solids (I-3750-85) Feed	Cake	Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened	Filtrate	Gravity Belt Thickener Feed (gal)	Thickn (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Fri 1	2.59%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 2	3.39%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 3	3.46%		0.21%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 4	4.15%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 5	4.29%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 6	3.29%		0.08%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 7	3.47%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 8	2.94%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 9	4.82%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 10	2.72%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 11	3.98%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 12	3.83%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 13	4.15%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 14	4.92%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 15	4.81%		0.20%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 16	6.08%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 17	5.70%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 18	5.45%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 19	5.84%	22.42%	0.16%	54,500	45.06	13.27	3.40	97.96%	8.00	1.66	0.36	5.66%	0.16%	10,712	3,200	70.13%	0.00	0.76	0.00	1.00	0.76	0.07
Wed 20	5.63%	20.88%	0.14%	20,800	15.02	4.88	3.08	98.17%	8.00	0.61	0.12			0	0		0.00			0.00		
Thu 21	5.24%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 22	4.99%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 23	6.00%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 24	6.24%		0.09%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 25	4.74%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 26	5.81%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 27	5.14%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 28	4.65%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 29	2.25%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 30	3.99%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 31	4.11%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				75,300	60.08	18.16	3.31	98.07%	16.00	2.27	0.49			10,712	3,200	70.13%	0.00	0.76	0.00	1.00	0.76	0.07
Average =	4.47%	21.65%	0.16%	2,429	1.94	0.59	3.24	98.07%	0.52	1.13	0.02	5.66%	0.16%	346	103	70.13%	0.00	0.76	0.00	0.03	0.76	0.07
Minimum =	2.25%	20.88%	0.08%	0	0.00	0.00	3.08	97.96%	0.00	0.61	0.00	5.66%	0.16%	0	0	70.13%	0.00	0.76	0.00	0.00	0.76	0.07
Maximum =	6.24%	22.42%	0.21%	54,500	45.06	13.27	3.40	98.17%	8.00	1.66	0.36	5.66%	0.16%	10,712	3,200	70.13%	0.00	0.76	0.00	1.00	0.76	0.07

$$\% \text{ Solids Recovery} = \frac{(\%\text{cake})(\%\text{feed} - \%\text{filtrate})}{(\%\text{feed})(\%\text{cake} - \%\text{filtrate})}$$

March 2013 Solids Operations Report

2 PM - 10 PM

Date	Hours of Operation	% Solids 1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP Sludge Processed BFP 1	BFP 2	BFP 3	BFP 4	BFP Polymer 1-2-3	4-5-6	GBT 1	GBT 2	Thicknd Sludge	GBT Polymer 7	8	Hours of Operation BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Fri 1																										
Sat 2																										
Sun 3																										
Mon 4																										
Tue 5																										
Wed 6																										
Thu 7																										
Fri 8																										
Sat 9																										
Sun 10																										
Mon 11																										
Tue 12																										
Wed 13																										
Thu 14																										
Fri 15																										
Sat 16																										
Sun 17																										
Mon 18																										
Tue 19	4	6.10%	22.00%	0.15%		5.64%	19.85%	0.15%		0	0	33,600	20,900	0	6	0	10,712	3,200	0	0	0.00	0.00	4.00	4.00	0.00	1.00
Wed 20	4	5.25%	20.25%	0.16%						0	0	12,000	8,800	1	1	0	0	0	0	0	0.00	0.00	4.00	4.00	0.00	0.00
Thu 21																										
Fri 22																										
Sat 23																										
Sun 24																										
Mon 25																										
Tue 26																										
Wed 27																										
Thu 28																										
Fri 29																										
Sat 30																										
Sun 31																										
	8	5.68%	21.13%	0.16%		5.64%	19.85%	0.15%		0	0	45,600	29,700	1	7	0	10,712	3,200	0	0	0.00	0.00	8.00	8.00	0.00	1.00
	Min:	5.25%	20.25%	0.15%	0.00%	5.64%	19.85%	0.15%	0.00%																	
	Max:	6.10%	22.00%	0.16%	0.00%	5.64%	19.85%	0.15%	0.00%	0	0	33,600	20,900	1	6	0	10,712	3,200	0	0	0.00	0.00	4.00	4.00	0.00	1.00

Numbers in Red Font are Lab Data

March 2013 Sludge Inventory Report

Date	Pumped from PSTs to Pri. Dig. (gal)	Pumped from PSTs to Mix Tank (gal)	Total (gal)	Thickened Sludge to Pri. Dig. (gal)	Secondary Sludge to Mix Tank (gal)	Dig 1 (in.)	Dig 2 (in.)	Dig 3 (in.)	Mix Tank (in.)	Dig 4 (in.)	Dig 5 (in.)	Pri.Dig.Sldg. Inventory (gal)	Sec.Dig.Sldg. Inventory (gal)	Transfer (calculated) (gal)	Supernated (gal)	Pressed (gal)	Mix Tank Overflow Potential Calculated (gal)
									97			433,550	104,500				
Fri 1	0	96,708	96,708	51,300	67,000	30	29	32	95	11	10	478,250	57,750	6,600	0	48,988	0
Sat 2	0	98,314	98,314	74,000	153,000	25	28	36	107	5	32	501,550	101,750	50,700	0	34,590	0
Sun 3	0	98,930	98,930	48,500	246,000	43	27	19	0	5	34	244,750	107,250	305,300	0	28,515	0
Mon 4	0	98,478	98,478	70,100	259,000	18	30	38	97	5	32	469,300	101,750	0	0	53,578	0
Tue 5	0	99,126	99,126	61,600	295,000	39	30	22	104	5	25	499,850	82,500	31,050	0	79,405	0
Wed 6	0	99,764	99,764	48,400	321,000	36	39	19	96	1	16	488,900	46,750	59,350	0	95,737	0
Thu 7	0	99,090	99,090	67,300	271,000	15	34	35	112	0	21	499,800	57,750	56,400	0	96,356	0
Fri 8	0	98,910	98,910	67,300	131,000	37	33	21	102	0	17	495,050	46,750	72,050	0	87,232	0
Sat 9	0	96,654	96,654	65,500	121,000	21	31	36	102	0	20	486,800	55,000	73,750	0	34,575	0
Sun 10	0	97,654	97,654	46,000	217,000	42	30	21	0	0	36	255,750	99,000	277,050	0	31,762	0
Mon 11	0	97,620	97,620	71,500	327,000	39	30	29	95	0	27	497,500	74,250	0	0	94,341	0
Tue 12	0	108,660	108,660	64,900	318,000	39	41	27	100	0	27	534,250	74,250	28,150	0	121,326	0
Wed 13	0	94,190	94,190	69,400	270,000	45	27	28	102	0	36	519,800	99,000	83,850	0	77,918	0
Thu 14	0	98,170	98,170	67,900	318,000	40	39	22	87	0	34	486,550	93,500	101,150	0	76,000	0
Fri 15	0	94,413	94,413	62,000	103,000	29	22	37	97	0	30	474,800	82,500	73,750	0	74,292	0
Sat 16	0	96,016	96,016	78,300	141,000	40	52	37	101	0	27	597,150	74,250	0	0	17,400	0
Sun 17	0	95,904	95,904	46,000	263,000	25	52	27	0	0	50	286,000	137,500	357,150	0	28,540	0
Mon 18	0	88,426	88,426	66,800	290,000	36	22	40	99	0	51	507,100	140,250	0	0	62,183	0
Tue 19	0	96,233	96,233	56,000	366,000	28	34	22	84	0	36	432,600	99,000	130,500	0	132,193	0
Wed 20	0	95,580	95,580	52,100	232,000	33	24	23	83	0	18	419,200	49,500	65,500	0	109,335	0
Thu 21	0	95,285	95,285	56,600	216,000	30	20	20	96	0	18	422,900	49,500	52,900	0	65,576	0
Fri 22	0	95,473	95,473	53,300	76,000	31	21	23	90	0	17	422,250	46,750	53,950	0	52,899	0
Sat 23	0	95,296	95,296	72,100	105,000	28	48	29	107	0	5	545,550	13,750	0	0	30,201	0
Sun 24	7,024	79,500	86,524	45,500	198,000	28	24	25	0	0	36	211,750	99,000	386,324	0	29,180	0
Mon 25	55,635	23,483	79,118	31,100	321,000	45	24	24	71	0	45	426,150	123,750	0	0	35,399	0
Tue 26	0	91,639	91,639	61,500	329,000	42	27	21	102	0	43	492,300	118,250	0	0	62,700	0
Wed 27	0	100,732	100,732	65,799	359,000	42	22	27	98	0	39	485,450	107,250	72,649	0	68,240	0
Thu 28	0	109,211	109,211	72,200	374,000	28	39	39	103	0	28	538,700	77,000	18,950	0	62,501	0
Fri 29	0	109,582	109,582	68,100	105,000	28	29	35	106	0	35	507,400	96,250	99,400	0	81,399	0
Sat 30	0	106,269	106,269	79,401	206,000	27	45	21	110	0	49	519,750	134,750	67,051	0	37,701	0
Sun 31	0	105,034	105,034	51,500	119,000	27	25	39	0	0	53	250,250	145,750	321,000	0	37,992	0
	62,659	2,960,344	3,023,003	1,892,000	7,117,000									2,844,524	0	1,948,054	0
Ave:	2,021	95,495	97,516	61,032	229,581							451,529	86,847	91,759	0	62,840	0
Min:	0	23,483	79,118	31,100	67,000							211,750	13,750	0	0	17,400	0
Max:	55,635	109,582	109,582	79,401	374,000							597,150	145,750	386,324	0	132,193	0

Transfer = (change in Primary Sludge Inventory) + (sludge pumped from PSTs to Pri. Dig.) + (Thickened Sludge pumped to Pri. Dig.)

Mix Tank Overflow Potential = (change in Mix Tank level) + gallons from PSTs + secondary sludge (350 gpm) - GBT feed

March 2013 Soluble Sulfides Report

	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	Sludge Processed BFPs	GBTs
1-Mar							48,988	406,875
2-Mar							34,590	181,180
3-Mar							28,515	205,856
4-Mar							53,578	362,095
5-Mar							79,405	407,051
6-Mar							95,737	390,412
7-Mar							96,356	368,157
8-Mar							87,232	430,579
9-Mar							34,575	177,384
10-Mar							31,762	203,319
11-Mar							94,341	404,659
12-Mar							121,326	426,780
13-Mar							77,918	417,098
14-Mar							76,000	347,005
15-Mar							74,292	430,725
16-Mar							17,400	170,154
17-Mar							28,540	222,103
18-Mar							62,183	440,356
19-Mar							132,193	349,980
20-Mar							109,335	325,098
21-Mar							65,576	333,128
22-Mar							52,899	311,483
23-Mar							30,201	175,996
24-Mar							29,180	185,615
25-Mar							35,399	269,085
26-Mar							62,700	417,472
27-Mar							68,240	469,512
28-Mar							62,501	472,768
29-Mar							81,399	452,449
30-Mar							37,701	222,107
31-Mar							37,992	236,268
Ave:	N/A	N/A	N/A	N/A	N/A	N/A		
Min:	0.000	0.000	0.000	0.000	0.000	0.000		
Max:	0.000	0.000	0.000	0.000	0.000	0.000		

March 2013 Disposal Site Report

Date	Sludge Conestoga (Tons)	Sludge Rolling Hills (Tons)	*** Sludge Advanced Disposal (Tons)	Sludge Pioneer Crossing (Tons)	6th St. (Tons)	Grit (Tons)	Tank Cleanings (Tons)	Scum (Tons)	San Swr Soil (Tons)	Exeter Sludge (Gallons)	Exeter % Solids	Valley Forge Sludge (Gallons)	Valley Forge % Solids	Total Cans Hauled Biosolids
Fri 1				36.56										2
Sat 2				16.03										1
Sun 3														
Mon 4				80.36										5
Tue 5				63.43										4
Wed 6				68.56										4
Thu 7				65.33	6.03									4
Fri 8				67.40										4
Sat 9				15.72										1
Sun 10														
Mon 11				87.36										5
Tue 12				68.19										4
Wed 13				70.88										4
Thu 14				72.40	12.92									4
Fri 15				88.06										5
Sat 16				33.24										2
Sun 17														
Mon 18				85.63										5
Tue 19				102.57										6
Wed 20				158.31										9
Thu 21				104.44										6
Fri 22				50.97										3
Sat 23				17.82	5.81									1
Sun 24														
Mon 25			20.56	86.22			30.10							6
Tue 26			20.70	68.05										5
Wed 27			64.46	68.91										7
Thu 28			66.11	70.98										7
Fri 29			47.41	70.06										6
Sat 30				18.49										1
Sun 31														
Total:	0.00	0.00	219.24	1735.97	24.76	0.00	30.10	0.00	0.00	0		0		111
Ave:	0.00	0.00	43.85	66.77	8.25	0.00	30.10	0.00	0.00	0		0		
Min:	0.00	0.00	20.56	15.72	5.81	0.00	30.10	0.00	0.00	0		0		
Max:	0.00	0.00	66.11	158.31	12.92	0.00	30.10	0.00	0.00	0		0		

March 2013 Supernating Data

	Digester#4	Gallons Supernated	%Solids	lbs supernated	Digester#5	Gallons Supernated	%Solids	lbs supernated	Total Gallons Supernated	Total lbs Supernated
Fri 1									0	0
Sat 2									0	0
Sun 3									0	0
Mon 4									0	0
Tue 5									0	0
Wed 6									0	0
Thu 7									0	0
Fri 8									0	0
Sat 9									0	0
Sun 10									0	0
Mon 11									0	0
Tue 12									0	0
Wed 13									0	0
Thu 14									0	0
Fri 15									0	0
Sat 16									0	0
Sun 17									0	0
Mon 18									0	0
Tue 19									0	0
Wed 20									0	0
Thu 21									0	0
Fri 22									0	0
Sat 23									0	0
Sun 24									0	0
Mon 25									0	0
Tue 26									0	0
Wed 27									0	0
Thu 28									0	0
Fri 29									0	0
Sat 30									0	0
Sun 31									0	0
TOTAL		0		0		0		0	0	0
AVG.										

March 2013 Laboratory Results

	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	% Solids GBT	% Solids GBT Filtrate	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	P1-4 %TS	P1-4 %VS	Dig 4 %TS	Dig 4 %VS	Dig 5 %TS	Dig 5 %VS
1-Mar	2.59%	19.72%	0.15%	6.38%										2.63%		3.20%	
2-Mar	3.39%	19.99%	0.16%	4.55%													
3-Mar	3.46%	20.12%	0.21%	5.60%													
4-Mar	4.15%	20.00%	0.18%	4.86%										2.17%		1.73%	
5-Mar	4.29%	21.47%	0.18%	7.11%													
6-Mar	3.29%	20.68%	0.08%	4.48%								3.18%	83.49%	0.51%	53.33%	4.25%	65.86%
7-Mar	3.47%	23.26%	0.13%	5.70%													
8-Mar	2.94%	22.63%	0.15%	5.91%										0.32%		4.13%	
9-Mar	4.82%	19.99%	0.18%	3.95%													
10-Mar	2.72%	21.00%	0.13%	5.42%													
11-Mar	3.98%	19.92%	0.14%	5.84%										0.29%		4.37%	
12-Mar	3.83%	20.29%	0.16%	5.58%													
13-Mar	4.15%	22.14%	0.17%	5.88%								3.10%	76.25%	1.39%	64.44%	4.20%	64.15%
14-Mar	4.92%	21.70%	0.14%	4.44%													
15-Mar	4.81%	22.74%	0.20%	6.14%												4.36%	
16-Mar	6.08%	20.90%	0.15%	4.05%													
17-Mar	5.70%	20.78%	0.16%	4.80%													
18-Mar	5.45%	20.92%	0.14%	5.77%												4.82%	
19-Mar	5.84%	22.42%	0.16%	5.66%													
20-Mar	5.63%	20.88%	0.14%	6.49%								3.11%	77.32%			5.40%	62.84%
21-Mar	5.24%	23.21%	0.17%	4.52%													
22-Mar	4.99%	21.44%	0.16%	5.66%												4.39%	
23-Mar	6.00%	22.46%	0.19%	4.14%													
24-Mar	6.24%	21.12%	0.09%	4.99%													
25-Mar	4.74%	21.78%	0.17%	7.89%												3.04%	
26-Mar	5.81%	23.10%	0.19%	5.51%													
27-Mar	5.14%	21.35%	0.19%	5.78%								2.11%	80.00%			5.37%	62.73%
28-Mar	4.65%	20.92%	0.17%	4.44%													
29-Mar	2.25%	19.15%	0.14%	5.32%												4.32%	
30-Mar	3.99%	20.10%	0.15%	4.68%													
31-Mar	4.11%	20.12%	0.15%	4.76%													
Avg	4.47%	21.17%	0.16%	5.36%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.88%	79.27%	1.22%	58.89%	4.12%	63.90%
Min	2.25%	19.15%	0.08%	3.95%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	3.18%	83.49%	2.63%	64.44%	5.40%	65.86%
Max	6.24%	23.26%	0.21%	7.89%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	2.11%	76.25%	0.29%	53.33%	1.73%	62.73%

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

RECEIVED
EPA REGION III
JAN 22 2013
OFC. OF STATE AND WATERSHED PARTNERSHIPS (3WP10)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	12/01/2012	TO	12/31/2012

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	69	******		0	DAILY	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.5	******	******		0	7/DAILY	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.1	******	7.8		0	DAILY	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1376	1789		******	11	13		0	DAILY	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	988	******		******	8.1	******		0	DAILY	COMP24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	14.55	20.97		******	******	******	******	0	CONTINUOUS	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.03	******		0	2/SHIFT	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	(610) 655-6258		1/14/2013
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NONE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	12/01/2012	TO	12/31/2012

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	< 0.01088	******		******	< 0.00010	******		0	WEEKLY	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	3	******		0	DAILY	GRAB
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1363	1573		******	11	12		0	DAILY	COMP24
80082 1 1 Effluent Gross	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	(610)655-6258	1/14/2013
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code / NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NONE

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* December 2012

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 17.69	X 0.01	= 0.00
0.00	X 17.69	X 0.01	= 0.00
0.00	X 17.69	X 0.01	= 0.00
897.27	X 17.69	X 0.01	= 158.73
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 158.73

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	158.73
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

01/16/13
Date

City of Reading 3-C Watershed *for the Month* December 2012

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

	December 2012					City of Reading Wastewater Treatment Plant								
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Dec	15.5	21	11	9	5.0	13.48	7.6	7.4	0.78		1	75	0.00	34	45
2-Dec	18.3	23	10	6	6.0	13.35	7.4	7.5	0.81		1	75	0.04	39	54
3-Dec	16.9	23	12	10	7.7	13.87	7.0	7.5	0.51		1	75	0.00	42	67
4-Dec	19.1	26	13	11	11.1	14.70	6.5	7.5	0.58		4	100	0.03	51	72
5-Dec	17.6	23	11	11	8.8	11.52	6.7	7.5	0.46		3	85	0.00	35	63
6-Dec	16.6	24	12	13	7.6	12.40	7.5	7.5	0.67		124	85	0.00	22	43
7-Dec	14.9	24	12	14	6.1	13.86	7.4	7.4	0.64		2	85	0.19	23	39
8-Dec	16.8	19	11	14	6.1	13.19	7.2	7.4	0.56		5	85	0.11	38	49
9-Dec	16.4	22	15	13	8.6	15.25	7.1	7.3	0.80		1	85	0.32	40	47
10-Dec	16.7	20	13	7	7.2	15.56	7.0	7.4	0.49		6	75	0.02	41	53
11-Dec	16.9	21	9	11	8.7	12.88	7.1	7.4	0.51		8	75	0.11	28	50
12-Dec	18.0	20	12	12	7.9	12.57	7.6	7.4	0.64		3	60	0.00	26	43
13-Dec	17.3	24	12	13	7.9	12.34	7.7	7.4	0.50		3	65	0.00	23	52
14-Dec	16.3	28	13	14	7.3	12.30	7.6	7.4	0.58		5	65	0.00	24	52
15-Dec	15.4	22	13	14	6.4	13.09	7.4	7.5	0.51		3	75	0.00	23	48
16-Dec	16.3	26	15	17	7.3	13.89	7.4	7.4	0.69		1	65	0.12	39	52
17-Dec	15.9	24	11	13	10.4	17.85	6.7	7.1	0.51		4	60	0.18	42	46
18-Dec	18.4	20	11	11	10.4	11.97	7.2	7.4	0.44		5	65	0.19	40	53
19-Dec	18.6	20	11	8	7.4	11.76	7.5	7.6	0.53		5	60	0.00	29	47
20-Dec	18.8	19	11	13	9.4	20.97	7.5	7.8	0.68		1	60	0.29	25	41
21-Dec	18.7	29	15	19	8.1	19.26	6.7	7.4	1.29		15	60	1.12	35	48
22-Dec	16.8	17	8	10	3.0	16.90	7.7	7.4	0.65		5	50	0.00	32	40
23-Dec	14.0	16	8	8	5.2	15.17	8.2	7.4	0.39		18	40	0.00	25	34
24-Dec	13.5	20	14	10	10.5	16.19	7.7	7.4	0.47		5	60	0.00	20	38
25-Dec	15.1	14	9	8	7.8	14.14	7.8	7.4	0.91		1	50	0.19	30	41
26-Dec	14.6	20	10	11	12.2	16.19	8.0	7.3	0.46		2	50	2.00	26	38
27-Dec	13.0	20	11	13	12.1	16.48	7.7	7.4	0.41		10	50	0.23	29	36
28-Dec	15.5	14	7	7	8.5	15.00	7.6	7.4	0.54		1	75	0.00	27	42
29-Dec	14.6	23	8	9	10.3	15.20	7.6	7.5	0.41		3	75	0.24	27	34
30-Dec	15.3	20	11	11	6.8	15.08	7.4	7.5	0.48		1	75	0.15	26	35
31-Dec	12.1	20	9	9	8.7	14.58	7.3	7.3	0.31		3	75	0.00	25	39
						See DO profile					<				
TOTAL		662	348	349	250.2	451.0	###	229.9	18.21			2135	5.53		
Week 1	17.0	23	12	11	7.5	13.31	7.14	7.44	0.64		19	83	0.04	35	55
Week 2	16.9	22	12	12	7.7	13.44	7.34	7.39	0.58		4	73	0.08	31	49
Week 3	17.4	22	12	13	8.5	15.54	7.19	7.45	0.66		5	64	0.27	33	48
Week 4	14.6	18	10	9	8.5	15.72	7.82	7.37	0.55		6	54	0.35	27	38
Monthly	16.3	21	11	11	8.1	14.55	7.38	7.42			3	69	0.18	31	46
Weekly averages: 12/2-8, 12/9-15, 12/16-22, 12/23-12/29, 12/30-31 will be included in January's weekly averages.															
Min =	12.1	14	7	6	3.0	11.52	6.5	7.1	0.31		1	40	0.00	20	34
Max =	19.1	29	15	19	12.2	20.97	8.2	7.8	1.29		124	100	2.00	51	72
DISCHARGE LIMITATIONS															
Ave Monthly			25	30	18		Min	6.0			10,000	186			
Ave Weekly			40	45			of	to							
Inst. Max			50	60	24		5.0	9.0				465			

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Dec	4,181	30,406	34,588	14,126		48,714	2,361	1,237	2,125	19,186	21,311	15,496	36,806	1,012	168	515	1,824	2340	215	2,349	2,555	565
2-Dec	5,352	44,494	49,846	-1,575	324	48,270	2,561	1,113	4,840	62,291	67,131	-23,127	44,005	668	200	665	2,242	2,908	594	5,304	3,502	666
3-Dec	5,292	41,153	46,445	-11,483		34,961	2,661	1,388	6,021	38,581	44,602	-31,710	12,892	1,157	763	661	2,281	2,941	1,505	7,347	4,447	886
4-Dec	5,564	45,824	51,389	-6,658		44,731	3,188	1,594	5,657	30,994	36,651	-866	35,785	1,349	564	640	1,925	2,565	1,057	4,134	3,621	1,361
5-Dec	6,184	58,357	64,540	-24,274		40,267	2,210	1,057	6,514	45,827	52,341	-24,330	28,012	1,057	68	751	2,626	3,377	114	2,025	3,491	845
6-Dec	5,865	42,917	48,781	-14,577	220	34,205	2,482	1,241	4,838	37,195	42,033	-25,962	16,071	1,344	397	696	2,104	2,800	1,207	5,438	4,007	786
7-Dec	6,561	64,657	71,218	-14,818		56,400	2,774	1,387	5,284	41,274	46,558	5,418	51,977	1,618	766	498	1,568	2,065	1,551	4,901	3,616	699
8-Dec	3,867	51,708	55,575	-14,443		41,132	2,090	1,210	3,656	32,693	36,349	14,505	50,854	1,540	296	539	1,826	2,365	925	3,679	3,291	673
9-Dec	4,999	32,476	37,475	10,475	392	47,950	2,798	1,908	5,443	35,428	40,872	9,350	50,221	1,653	525	744	2,145	2,890	934		3,823	1,094
10-Dec	6,409	45,276	51,685	-17,554		34,131	2,595	1,687	6,820	34,900	41,721	-18,967	22,754	908	526	755	2,386	3,141	1,422	4,612	4,563	933
11-Dec	6,350	53,011	59,361	-16,296		43,064	2,256	967	6,538	66,915	73,453	-26,414	47,040	1,182	1,016	567	2,399	2,965	844	4,257	3,810	932
12-Dec	6,122	43,257	49,379	-14,845		34,534	2,097	1,258	6,006	41,900	47,906	-26,107	21,800	1,258	244	684	2,137	2,821	1,291	6,966	4,112	828
13-Dec	7,033	54,879	61,912	-17,076	418	44,836	2,470	1,235	5,192	35,256	40,448	-309	40,139	1,338	280	753	2,411	3,164	593	9,270	3,758	811
14-Dec	6,922	52,647	59,569	-4,578		54,991	2,872	1,334	6,611	40,781	47,392	-2,130	45,262	1,436	79	606	2,156	2,762	-150	1,977	2,612	749
15-Dec	6,028	40,662	46,690	-3,161		43,529	2,402	1,419	6,724	29,708	36,432	46,167	82,599	1,528	225	682	1,892	2,574	123	5,266	2,697	698
16-Dec	7,038	53,290	60,328	-10,982		49,346	3,012	1,738	6,402	33,419	39,821	-4,017	35,805	1,969	259	677	2,005	2,682	715	4,439	3,397	843
17-Dec	5,586	47,455	53,040	-18,861		34,179	3,573	1,638	6,893	32,459	39,352	-663	38,689	1,935	308	694	2,249	2,943	569	6,197	3,513	1,548
18-Dec	6,067	34,162	40,229	-6,449		33,780	1,997	1,098	6,262	32,692	38,953	-17,467	21,487	1,098	336	646	1,816	2,462	761	3,355	3,223	1,038
19-Dec	5,721	51,371	57,092	-15,684		41,408	1,962	1,079	4,764	30,126	34,890	-2,205	32,685	785	233	645	1,863	2,508	794	3,799	3,302	725
20-Dec	7,600	75,135	82,735	45,055	355	127,790	3,323	1,924	8,174	82,512	90,686	-17,420	73,266	2,274	228	750	2,363	3,113	925	3,930	4,038	1,635
21-Dec	6,665	39,249	45,914	-1,741		44,173	4,658	2,409	6,845	30,901	37,746	2,411	40,157	3,052	348	605	1,520	2,125	1,874	7,957	4,000	1,304
22-Dec	4,754	41,204	45,958	-12,654		33,303	2,396	1,128	3,851	78,388	82,238	-56,391	25,847	1,409	325	468	1,568	2,036	-135	3,352	1,901	427
23-Dec	6,924	48,344	55,269	-5,815	318	49,454	2,024	1,012	7,335	51,502	58,837	-4,598	54,239	1,012	416	792	1,648	2,439	778	3,793	3,217	652
24-Dec	5,815	37,795	43,610	-8,542		35,068	2,700	1,890	4,430	87,109	91,539	-52,470	39,069	1,350	139	714	1,647	2,361	357	1,676	2,718	1,418
25-Dec	4,721	35,158	39,879	-2,678		37,201	1,651	1,061	5,206	96,880	102,086	-70,305	31,781	943		676	1,963	2,639	243		2,882	916
26-Dec	5,569	60,108	65,677	-16,174		49,503	2,700	1,350	5,384	30,913	36,297	12,930	49,227	1,485	260	721	2,200	2,921	2,084	7,720	5,006	1,647
27-Dec	4,863	41,466	46,330	-19,214	374	27,116	2,749	1,512	5,836	36,076	41,912	-14,928	26,984	1,787	295	664	1,990	2,654	2,333	5,877	4,987	1,663
28-Dec	3,243	26,805	30,048	-7,230		22,818	1,751	876	7,566	24,013	31,579	-18,849	12,730	876	815	638	1,703	2,341	2,271	9,097	4,612	1,068
29-Dec	2,802	28,871	31,673	-5,297		26,377	2,916	1,014	3,643	10,980	14,623	5,742	20,365	1,141	533	684	1,789	2,473	594	3,220	3,067	1,306
30-Dec	5,574	32,638	38,211	-2,735	407	35,476	2,515	1,383	8,510	54,716	63,226	-26,518	36,708	1,383	622	609	1,853	2,462	1,086	4,730	3,548	851
31-Dec	2,702	23,436	26,138	-5,921		20,218	2,432	1,094	1,837	12,867	14,704	1,232	15,936	1,094	304	630	1,599	2,229	1,303	3,100	3,532	1,052
TOTAL	172,373	1,378,211	1,550,584	-231,659	2,808	1,318,925	80,175	42,241	175,209	1,318,481	1,493,690	-352,501	1,141,189	42,643	11,540	20,366	61,701	82,067	28,778	139,766	110,845	30,621
Week 1	5,571	46,830	52,401	-8,465	272	43,935	2,566	1,284	5,040	39,335	44,375	-12,154	32,221	1,248	418	632	2,081	2,714	892	4,500	3,605	830
Week 2	5,957	47,608	53,565	-10,617	405	42,948	2,499	1,401	5,753	41,125	46,877	-7,153	39,724	1,329	424	664	2,209	2,873	837	5,127	3,710	860
Week 3	6,386	48,760	55,147	-1,689	355	53,458	2,989	1,573	6,581	38,831	45,411	972	46,384	1,789	277	671	1,958	2,630	823	4,992	3,453	1,113
Week 4	5,127	41,555	46,681	-10,330	346	36,352	2,356	1,245	5,658	57,840	63,498	-29,230	34,268	1,228	375	668	1,817	2,485	1,133	5,252	3,618	1,113
Monthly	5,560	44,458	50,019	-7,473	351	42,546	2,586	1,363	5,652	42,532	48,184	-11,371	36,813	1,376	385	657	1,990	2,647	928	4,820	3,576	988
Min =	2702	23436	26138	-24274	220	20,218	1,651	876	1,837	10,980	14,623	-70,305	12,730	668	68	468	1,520	2,036	-150	1,676	1,901	427
Max =	7600	75135	82735	45055	418	127,790	4,658	2,409	8,510	96,880	102,086	46,167	82,599	3,052	1,016	792	2,626	3,377	2,333	9,270	5,006	1,663
								4,170						7,130								3,000
								6,255						10,696								

Print Date: 1/14/2013

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Dec								
2-Dec								
3-Dec								
4-Dec	< 0.00010	< 0.00232	0.00020	0.01666	< 0.00010	< 0.01065	< 0.00010	< 0.01226
5-Dec	< 0.00010	< 0.00236	0.00130	0.11156	0.00020	0.02188	< 0.00010	< 0.00961
6-Dec								
7-Dec								
8-Dec								
9-Dec								
10-Dec								
11-Dec	< 0.00010	< 0.00235	0.00010	0.00869	0.00010	0.01104	< 0.00010	< 0.01074
12-Dec								
13-Dec								
14-Dec								
15-Dec								
16-Dec								
17-Dec								
18-Dec	< 0.00010	< 0.00243	0.00020	0.01730	< 0.00010	< 0.01108	< 0.00010	< 0.00998
19-Dec								
20-Dec								
21-Dec								
22-Dec								
23-Dec								
24-Dec								
25-Dec	< 0.00010	< 0.00255	0.00020	0.01953	< 0.00010	< 0.01232	< 0.00010	< 0.01179
26-Dec								
27-Dec								
28-Dec								
29-Dec								
30-Dec								
31-Dec								
Total	0.00050	0.01201	0.00200	0.17375	0.00060	0.06697	0.00050	0.05439
Week 1	< 0.00010	< 0.00234	0.00075	0.06411	< 0.00015	< 0.01627	< 0.00010	< 0.01093
Week 2	< 0.00010	< 0.00235	0.00010	0.00869	0.00010	0.01104	< 0.00010	< 0.01074
Week 3	< 0.00010	< 0.00243	0.00020	0.01730	< 0.00010	< 0.01108	< 0.00010	< 0.00998
Week 4	< 0.00010	< 0.00255	0.00020	0.01953	0.00010	0.01232	< 0.00010	< 0.01179
Monthly	< 0.00010	< 0.00240	0.00040	0.03475	< 0.00012	< 0.01339	< 0.00010	< 0.01088
Min =	< 0.00010	< 0.00232	0.00010	0.00869	0.00010	0.01065	< 0.00010	< 0.00961
Max =	0.00010	0.00255	0.00130	0.11156	0.00020	0.02188	< 0.00010	< 0.01226
							0.00023	0.055
							0.00046	

	December 2012				City of Reading Wastewater Treatment Plant																				Laboratory Process Control Data							
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent						
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-Dec	185	94	7.5	22.8	355	224	7.1	21.3	320	197	21.6	130	143	2.0	450	340	23.6	6.7	14.6	17.8	12.98	262	50	22.4	1.1	6.3	26	18	16.8		5.3	6.9	30	14
2-Dec	230	208	7.3	28.6	500	700	7.1	25.2	444	598	25.9	-14	-206	5.3	430	392	31.2	7.0	15.7	17.7	13.46	320	159	28.0	0.2	6.6	55	66	21.2		5.1	7.1	35	23
3-Dec	225	256	7.6	28.1	480	450	7.1	26.6	425	408	26.9	-105	-290	13.8	320	118	40.7	6.9	15.1	18.1	13.10	268	56	34.7	0.2	6.6	26	16	26.7	300	3.9	7.1	25	8
4-Dec	240	244	7.5	27.6	550	372	6.8	23.1	483	344	24.1	-63	-8	9.9	420	336	34.0	6.7	16.7	19.1	12.77	ns	ns	ns	0.4	6.5	39	21	24.5		4.6	7.0	19	6
5-Dec	262	276	7.4	31.8	680	534	6.9	30.6	590	478	30.9	-222	-222	1.0	368	256	31.9	7.0	11.1	18.3	13.12	255	55	29.6	0.1	6.5	50	54	24.1	320	0.6	7.2	29	34
6-Dec	240	198	7.5	28.5	510	442	6.7	25.0	449	387	25.8	-134	-239	11.1	315	148	36.9	7.0	10.9	17.4	13.02	290	71	28.7	0.3	7.0	43	43	23.3		6.0	7.4	30	20
7-Dec	298	240	7.4	22.6	730	466	6.8	17.7	644	421	18.7	-134	49	14.0	510	470	32.7	6.6	12.7	18.2	13.26	332	78	24.5	0.2	6.3	68	82	19.8	320	4.9	6.8	ns	ns
8-Dec	165	156	6.9	23.0	620	392	6.5	21.9	520	340	22.1	-135	136	8.7	385	476	30.8	6.6	11.8	17.9	12.81	330	140	21.1	0.2	6.3	46	48	17.5		3.9	7.0	38	26
9-Dec	180	196	7.1	26.8	330	360	6.6	21.8	297	324	22.9	83	74	7.4	380	398	30.3	6.9	12.0	18.0	15.13	255	89	29.1	1.3	6.5	36	47	25.4		3.6	6.9	33	20
10-Dec	265	282	7.2	31.2	480	370	6.9	25.3	436	352	26.5	-148	-160	12.0	288	192	38.5	6.6	15.3	17.3	14.21	238	55	30.9	0.3	6.3	34	22	26.4	320	4.1	6.4	26	12
11-Dec	270	278	7.6	24.1	610	770	6.8	27.6	538	665	26.9	-148	-239	7.6	390	426	34.5	6.9	12.8	18.2	13.24	272	111	30.1	0.4	6.5	38	49	25.2		1.1	7.0	29	16
12-Dec	265	260	7.4	29.6	510	494	7.1	25.2	458	444	26.1	-138	-242	12.0	320	202	38.1	6.8	16.0	17.3	12.94	252	53	32.8	0.2	6.4	34	20	26.4	320	4.1	7.1	25	12
13-Dec	298	220	7.4	31.9	660	424	6.8	29.0	580	379	29.6	-160	-3	5.6	420	376	35.2	6.7	12.5	17.5	12.80	278	66	34.9	0.4	6.2	50	53	27.8		4.3	6.9	24	12
14-Dec	312	298	7.5	27.3	630	488	6.9	25.8	563	448	26.1	-43	-20	-1.4	520	428	24.7	6.6	16.3	17.0	12.68	312	85	25.1	0.1	6.2	46	35	19.4	360	5.3	6.5	35	16
15-Dec	260	290	7.9	29.4	490	358	7.6	22.8	440	343	24.2	-30	435	1.2	410	778	25.4	7.0	13.7	10.4	12.73	272	71	27.4	1.6	6.4	ns	ns	ns		6.6	7.2	32	16
16-Dec	288	262	7.7	27.7	590	370	7.1	22.2	526	347	23.4	-96	-35	6.2	430	312	29.6	6.8	10.1	14.1	13.76	275	63	24.0	1.2	6.6	34	33	23.0		4.9	7.2	18	19
17-Dec	235	290	7.2	29.2	500	342	6.9	23.7	447	332	24.8	-159	-6	4.8	288	326	29.6	6.8	13.8	17.4	14.23	240	80	32.0	0.2	6.1	68	93	27.8	300	3.3	6.4	28	21
18-Dec	250	258	7.5	26.6	395	378	6.8	21.0	363	352	22.2	-58	-158	6.9	305	194	29.1	6.2	15.1	16.8	13.28	262	67	25.3	1.7	6.4	34	26	20.9		3.9	6.8	24	12
19-Dec	245	204	7.7	27.6	590	346	7.5	21.4	517	316	22.7	-142	-20	7.2	375	296	29.9	6.9	13.0	17.1	13.24	248	52	27.7	0.4	6.3	32	19	20.8	280	4.8	7.0	28	9
20-Dec	225	242	8.2	22.2	550	604	7.1	17.3	486	532	18.3	264	-102	5.4	750	430	23.7	7.2	14.4	16.9	20.43	255	79	25.3	4.1	6.5	54	53	20.1		0.9	7.1	31	28
21-Dec	185	190	7.2	16.8	315	248	6.8	12.2	286	235	13.2	-11	15	11.7	275	250	24.9	6.2	12.4	14.3	19.26	195	92	17.3	9.5	6.2	41	41	14.3	180	0.7	6.7	31	30
22-Dec	200	162	7.8	19.7	410	780	7.5	15.6	370	662	16.4	-102	-454	-1.1	268	208	15.3	6.4	16.2	19.3	14.90	220	72	17.4	0.3	6.4	36	40	14.3		5.4	7.2	24	16
23-Dec	202	214	7.1	23.1	490	522	7.0	16.7	416	443	18.4	-44	-35	5.8	372	408	24.2	6.7	13.4	15.9	15.94	220	69	21.4	0.2	6.5	24	18	17.5		3.3	7.1	35	27
24-Dec	210	160	7.1	25.8	420	968	8.1	18.3	371	778	20.1	-73	-446	3.0	298	332	23.1	7.1	16.9	16.2	14.11	210	52	24.2	0.6	7.0	41	29	25.5	300	4.5	6.8	28	11
25-Dec	185	204	7.2	26.5	360	992	7.1	20.1	324	829	21.4	-22	-571	2.0	302	258	23.4	6.7	18.4	15.2	14.77	175	44	21.6	1.3	6.5	21	13	19.8		2.1	6.7	22	9
26-Dec	180	174	7.2	23.3	560	288	6.9	20.5	475	262	21.1	-117	94	15.1	358	356	36.2	6.9	13.2	15.7	16.58	240	108	24.0	0.2	6.4	38	37	25.0	260	4.3	6.9	22	15
27-Dec	170	204	7.1	23.2	400	348	6.9	19.2	350	317	20.1	-145	-113	17.6	205	204	37.7	6.9	12.6	12.2	15.86	150	54	30.8	2.55	6.4	28	31	21.8		5.6	6.9	24	12
28-Dec	120	280	7.7	23.6	288	258	6.8	18.3	250	263	19.5	-60	-157	18.9	190	106	38.4	6.8	14.0	16.9	14.40	ns	ns	ns	2.8	6.3	38	23	20.8	260	4.9	6.6	28	20
29-Dec	100	130	7.2	24.4	305	116	7.0	18.9	258	119	20.2	-43	47	4.8	215	166	25.0	6.9	16.1	16.2	14.71	190	61	27.2	0.2	6.6	38	43	23.3		5.7	7.0	20	10
30-Dec	205	313	7.6	22.4	340	570	7.2	19.3	310	513	20.0	-22	-215	8.8	288	298	28.8	6.8	14.9	16.2	14.77	195	79	22.4	0.3	6.4	37	43	18.6		5.5	6.9	34	22
31-Dec	100	68	7.2	23.3	255	140	6.8	17.4	220	124	18.7	-50	10	11.0	170	134	29.7	7.1	11.8	12.3	14.26	170	65	25.9	0.1	6.4	26	32	22.4	300	4.8	7.0	28	20
TOTAL	6795	6851	229.6	798.7	14903	14114	216.6	671.0	13153	12552	698.8	-2138	-2938	238.3	11015	9614	937.1	###	###	512.9	442.75	7181	2176	765.8	30.1	###	1181	1148	660.4	3820.0		214.6	835	516
Week 1	240	217	7.4	27.1	544	455	6.9	24.2	479	405	24.8	-77	-111	8.2	402	294	33.0	6.8	13.8	18.1	13.10	288	78	28.0	0.3	6.5	44	43	22.3	313.3	4.3	7.1	28	18
Week 2	251	241	7.3	27.7	549	471	6.8	25.2	485	422	25.8	-98	-65	7.4	386	357	33.2	6.7	13.8	17.6	13.40	277	86	29.1	0.4	6.3	41	39	24.0	333.3	3.8	6.8	30	16
Week 3	241	248	7.6	25.6	490	378	7.1	20.1	438	351	21.3	-33	18	6.2	405	369	27.5	6.7	13.2	15.3	15.28	250	72	25.6	2.7	6.4	44	44	21.2	253.3	3.6	6.9	27	19
Week 4	181	200	7.3	23.6	418	594	7.2	18.4	365	508	19.6	-80	-240	8.8	285	267	28.3	6.8	14.9	15.9	15.22	203	67	23.2	0.9	6.5	32	27	20.7	273.3	4.3	6.9	26	16
Monthly	219	221	7.4	25.8	481	455	7.0	21.6	424	405	22.5	-69	-95	7.7	355	310	30.2	6.8	14.0	16.5	14.28	248	75	26.4	1.0	6.4	39	38	22.0	293.8	4.1	6.9	28	17
Min =	100	68	6.9	17	255	116	6.5	12	220	119	13.2	-222	-571	-1.4	170	106	15.3	6.2	10.1	10.4	12.68	150	44	17.3	0.1	6.1	21	13	14.3	180.0	0.6	6.4	18	6
Max =	312	313	8.2	32	730	992	8.1	31	644	829	30.9	264	435	18.9	750	778	40.7	7.2	18.4	19.3	20.43	332	159	34.9	9.5	7.0	68	93	27.8	360.0	6.6	7.4	38	34
									%Removal						%Removal																			
									94.97	97.22	64.19				93.99	96.37	73.30																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	Chloride	DO	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	DO	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
12.0		125	8.0	7.1	31	14	6	4.8				7.450	6.9		44.0	615.0
15.5		110	6.9	7.3	37	16	14	6.0				7.220	7.1	81.0	50.0	1325.0
19.3	220	125	7.1	7.2	32	16	11	8.0	180	12.6	1.445	6.670	7.0		108.0	1040.0
20.2		140	7.6	7.0	31	15	7	11.6				7.890	7.1		118.0	865.0
17.3	260	155	6.2	7.3	43	15	15	8.7	200			5.880	7.2		38.0	1140.0
14.7		145	7.3	6.8	32	13	12	7.8				7.220	7.2	42.0	76.0	1040.0
ns	260	ns	7.2	7.2	50	21	14	7.7	200			7.020	6.9		165.0	1055.0
13.0		145	6.5	7.2	33	15	13	6.1				6.830	7.1		68.0	845.0
17.9		105	6.1	7.3	48	20	19	8.9				6.660	7.1	94.0	126.0	
22.5	260	115	6.9	6.8	29	16	4	10.6	220	7.9	1.295	7.340	6.5		114.0	1000.0
18.3		125	6.6	7.3	37	16	16	8.6				6.630	7.0		210.0	880.0
20.1	260	140	7.2	7.3	38	17	14	8.8	180			7.010	7.0		61.0	1740.0
22.0		145	7.4	7.2	27	18	13	8.6				7.090	6.8	88.0	59.0	1950.0
17.0	320	135	7.4	7.2	42	19	15	7.7	180			7.240	6.4		65.0	1635.0
14.7		135	9.0	7.4	39	18	16	6.2				8.720	7.1		47.0	1100.0
15.5		115	8.3	7.2	33	15	17	6.6				5.970	6.9		66.0	1130.0
19.3	280	120	7.5	7.0	30	14	12	7.5	200			6.880	6.5		52.0	1045.0
17.9		115	7.1	7.1	59	17	14	9.6		8.1	1.070	6.630	6.4		94.0	940.0
15.5	200	125	7.2	7.1	ns	ns	ns	8.2	180			7.050	7.0		55.0	895.0
16.6		140	8.1	7.4	28	15	28	7.0				7.290	7.1	70.0	45.0	775.0
11.0	200	90	7.6	6.7	25	21	24	6.8	200			6.440	6.8		51.0	1165.0
10.0		105	8.5	7.3	ns	ns	ns	ns				8.070	7.0		96.0	990.0
13.1		95	7.8	7.2	29	14	10	6.0				8.430	6.9	78.0	102.0	930.0
18.8	240	105	7.7	7.1	33	19	14	11.4	180			8.140	6.5		75.0	905.0
14.7		150	7.9	6.9	32	14	15	6.8				7.630	6.7		ns	ns
20.6	200	150	7.3	7.2	33	12	18	13.4	140			7.690	6.8		43.0	1275.0
17.5		190	8.2	7.4	32	16	18	11.5		11.8	1.440	7.920	6.5	71.0	56.0	1115.0
15.4	220	125	8.5	7.2	36	15	16	8.7	180			8.060	6.7		121.0	1350.0
19.0		145	8.7	7.3	45	17	18	10.9				7.270	6.9		182.0	1100.0
13.6		185	8.6	7.3	31	16	18	7.0				7.610	6.9	89.0	136.0	1035.0
18.0	240	165	8.1	6.8	35	16	17	10.3	200			8.120	6.7		107.0	1090.0
501.0	3160.0	3965.0	234.3	221.6	1030	470	428	251.4	2440.0	40.4	5.250	226.1	212.5	613.0	2630.0	31970.0
16.5	246.7	133.3	7.2	7.1	37	16	11	7.8	193.3	12.6	1.445	7.1	7.0	61.5	85.6	1011.4
18.7	280.0	130.0	6.9	7.2	36	17	13	8.5	193.3	7.9	1.295	7.0	6.8	91.0	100.4	1341.7
15.8	226.7	120.0	7.8	7.1	36	17	19	7.4	193.3	8.1	1.070	7.0	6.8	70.0	58.6	1007.1
15.7	220.0	131.4	8.0	7.2	33	15	15	9.6	166.7	11.8	1.440	8.0	6.7	74.5	82.2	1094.2
16.7	243.1	132.2	7.6	7.1	36	16	15	8.4	187.7	10.1	1.313	7.3	6.9	76.6	87.7	1102.4
10.0	200.0	90.0	6.1	6.7	25	12	4	4.8	140.0	7.9	1.070	5.9	6.4	42.0	38.0	615.0
22.5	320.0	190.0	9.0	7.4	59	21	28	13.4	220.0	12.6	1.445	8.7	7.2	94.0	210.0	1950.0

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
		Flow (MGD)																
1-Dec	10.270	1.799	0.586	2.710		12.980	13.480	8.720	5.980	0.458	67.180	46.071						
2-Dec	10.670	1.911	0.692	2.790		13.460	13.350	8.720	4.300	0.480	64.785	31.947						
3-Dec	10.280	1.691	0.661	2.820		13.100	13.870	8.700	4.190	0.847	66.412	31.985						
4-Dec	9.990	1.635	0.677	2.780		12.770	14.700	8.690	4.220	0.573	68.050	33.046						
5-Dec	10.290	1.754	0.702	2.830		13.120	11.520	8.520	4.430	0.213	64.939	33.765						
6-Dec	10.090	1.678	0.706	2.930		13.020	12.400	8.520	5.590	0.627	65.438	42.934						
7-Dec	10.620	1.612	0.639	2.640		13.260	13.860	8.790	6.220	0.557	66.290	46.908						
8-Dec	10.000	1.675	0.590	2.810		12.810	13.190	8.700	5.510	0.522	67.916	43.013						
9-Dec	11.800	2.005	0.719	3.330		15.130	15.250	8.790	6.560	0.500	58.096	43.358						
10-Dec	11.310	1.827	0.752	2.900		14.210	15.560	9.200	6.690	0.553	64.743	47.080						
11-Dec	10.420	1.617	0.687	2.820		13.240	12.880	8.630	4.890	0.580	65.181	36.934						
12-Dec	10.170	1.666	0.693	2.770		12.940	12.570	8.760	3.850	0.480	67.697	29.753						
13-Dec	9.970	1.661	0.693	2.830		12.800	12.340	8.490	5.780	0.570	66.328	45.156						
14-Dec	10.020	1.588	0.722	2.660		12.680	12.300	8.700	5.350	0.145	68.612	42.192						
15-Dec	9.950	1.708	0.631	2.780		12.730	13.090	8.980	5.560	0.574	70.542	43.676						
16-Dec	10.830	1.855	0.709	2.930		13.760	13.890	8.410	6.160	0.471	61.119	44.767						
17-Dec	11.380	1.715	0.771	2.850		14.230	17.850	8.450	6.620	0.711	59.382	46.521						
18-Dec	10.370	1.712	0.701	2.910		13.280	11.970	8.740	6.330	0.428	65.813	47.666						
19-Dec	10.440	1.683	0.720	2.800		13.240	11.760	8.400	5.400	0.509	63.444	40.785						
20-Dec	16.380	2.463	0.860	4.050		20.430	20.970	8.820	4.330	0.608	43.172	21.194						
21-Dec	14.940	2.462	0.713	4.320		19.260	19.260	2.720	1.070	0.819	14.123	5.556	08:20	20:45				
22-Dec	12.050	1.991	0.640	2.850		14.900	16.900	8.360	5.330	0.406	56.107	35.772						
23-Dec	11.830	2.078	0.646	4.110		15.940	15.170	8.360	5.120	0.489	52.447	32.120						
24-Dec	10.790	1.731	0.555	3.320		14.110	16.190	8.280	0.440	0.222	58.682	3.118						
25-Dec	11.710	1.957	0.644	3.060		14.770	14.140	8.390	2.500	0.281	56.804	16.926						
26-Dec	12.870	2.158	0.767	3.710		16.580	16.190	8.500	1.150	0.726	51.267	6.936						
27-Dec	12.430	2.097	0.798	3.430		15.860	16.480	8.170	3.070	0.632	51.513	19.357						
28-Dec	11.160	1.701	0.627	3.240		14.400	15.000	8.370	3.570	0.808	58.125	24.792						
29-Dec	11.350	2.057	0.599	3.360		14.710	15.200	8.280	3.500	0.351	56.288	23.793						
30-Dec	11.510	1.959	0.586	3.260		14.770	15.080	8.250	3.460	0.548	55.856	23.426						
31-Dec	11.020	1.859	0.580	3.240		14.260	14.580	8.560	3.740	0.341	60.028	26.227						
						Influent flow metering used due to inconsistency over 25 MGD													
Total	346.910	57.305	21.066	95.840	0.000	442.750	450.990	259.970	140.910	16.029	1856.380	1016.77						
Week 1	10.316	1.726	0.666	2.786	#DIV/0!	13.101	13.311	8.666	4.990	0.536	66.156	38.09						
Week 2	10.527	1.720	0.694	2.874	#DIV/0!	13.401	13.441	8.753	5.519	0.479	65.511	41.07						
Week 3	12.041	1.943	0.729	3.234	#DIV/0!	15.276	15.541	7.789	5.067	0.589	53.942	35.74						
Week 4	11.834	1.959	0.668	3.389	#DIV/0!	15.223	15.724	8.347	3.026	0.509	54.992	19.86						
Monthly	11.191	1.849	0.680	3.092	#DIV/0!	14.282	14.548	8.386	4.545	0.517	59.883	32.80						
Min =	9.950	1.588	0.555	2.640	0.000	12.680	11.520	2.720	0.440	0.145	14.123	3.12						
Max =	16.380	2.463	0.860	4.320	0.000	20.430	20.970	9.200	6.690	0.847	70.542	47.67						

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	December 2012			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Dec															
2-Dec	7.1	240	5080	7.1	267	4620	7.1	208	5100						
3-Dec										7.2	292	5300	7.2	152	5180
4-Dec	7.2		5140	7.1		4040	7.1		4960						
5-Dec										7.2		4940	7.2		5160
6-Dec	7.0	750	4220	7.0	171	5020	7.2	117	4960						
7-Dec										7.2	131	5460	7.4	231	5160
8-Dec															
9-Dec	7.2	198	5240	5.8	1064	1880	7.2	373	5100						
10-Dec										7.3	181	5520	7.2		5380
11-Dec	7.1		5420	7.0		4940	7.2		5100						
12-Dec										7.2		5180	7.2		5300
13-Dec	7.2	194	5340	7.2	179	5000	7.1	240	5260						
14-Dec										7.2	167	5400	7.3	210	5320
15-Dec															
16-Dec	7.2	192	5480	7.1	179	5000	7.1	383	5300						
17-Dec										7.1	158	5100	7.2	179	5420
18-Dec	7.2	165	5080	7.2	138	4920	6.8	1112	3900						
19-Dec										7.1	175	4960	7.2	212	5280
20-Dec	7.0		4620	7.1		3640	7.1		4800						
21-Dec										7.3		5080	7.3		5200
22-Dec															
23-Dec	7.0	183	5420	7.0	177	4700	6.9	654	4460						
24-Dec										7.2	183	5160	7.1	150	4980
25-Dec	7.1		5400	7.0		4860	7.0		4900						
26-Dec										7.3		5260	7.2		5240
27-Dec	7.1	408	5160	7.2	183	4900	6.8	1198	2360						
28-Dec										6.4	1388	1940	7.2	229	5520
29-Dec															
30-Dec	7.1	485	5240	7.1	442	4900	7.2	346	4760						
31-Dec										7.2	171	5300	7.2	175	5600
Total	92.5	2815	66840	90.8	2800	58420	91.9	4631	60960	92.9	2846	64600	93.9	1538	68740
Week 1	7.1	495	4813	7.1	219	4560	7.1	163	5007	7.2	212	5233	7.3	192	5167
Week 2	7.2	196	5333	6.6	622	3940	7.1	307	5153	7.2	174	5367	7.2	210	5333
Week 3	7.1	179	5060	7.1	159	4520	7.0	748	4667	7.2	167	5047	7.2	196	5300
Week 4	7.1	296	5327	7.1	180	4820	6.9	926	3907	7.0	786	4120	7.2	190	5247
Monthly	7.1	313	5142	7.0	311	4494	7.1	515	4689	7.1	316	4969	7.2	192	5288
Min =	7.0	165	4220	5.8	138	1880	6.8	117	2360	6.4	131	1940	7.1	150	4980
Max =	7.2	750	5480	7.2	1064	5020	7.2	1198	5300	7.3	1388	5520	7.4	231	5600

Print Date: 1/14/2013

Dissolved Oxygen -December 2012

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
12/1/2012	7.8	7.8	7.8	7.6	7.6	7.6	8.1	7.6	
12/2/2012	7.7	7.8	7.7	7.5	7.4	7.5	8.0	7.4	
12/3/2012	7.5	7.7	7.3	7.2	7.2	7.0	7.5	7.0	
12/4/2012	7.0	7.0	6.8	6.9	7.0	6.5	8.9	6.5	
12/5/2012	6.7	6.7	6.7	7.0	7.1	7.2	6.7	6.7	
12/6/2012	7.5	7.6	7.9	7.6	7.8	7.6	7.7	7.5	
12/7/2012	7.8	7.9	7.8	7.5	7.5	7.4	7.7	7.4	
12/8/2012	7.4	7.6	7.4	7.2	7.3	7.2	7.6	7.2	
12/9/2012	7.2	7.3	7.5	7.1	7.2	7.1	7.8	7.1	
12/10/2012	7.3	7.4	7.3	7.0	7.1	7.1	7.4	7.0	
12/11/2012	7.2	7.3	7.1	7.2	7.3	7.4	7.3	7.1	
12/12/2012	7.7	7.8	7.6	7.6	7.7	7.6	7.9	7.6	
12/13/2012	7.9	7.7	7.9	7.7	7.7	7.7	8.0	7.7	
12/14/2012	7.8	7.9	7.8	7.6	7.7	7.6	8.1	7.6	
12/15/2012	7.7	7.6	7.6	7.6	7.5	7.4	8.2	7.4	
12/16/2012	7.7	7.6	7.6	7.4	7.4	7.4	8.0	7.4	
12/17/2012	7.5	7.6	7.4	7.2	7.2	7.2	6.7	6.7	
12/18/2012	7.2	7.3	7.3	7.2	7.2	7.3	7.3	7.2	
12/19/2012	7.5	7.5	7.5	7.9	7.9	7.9	7.5	7.5	
12/20/2012	7.9	7.9	7.8	7.9	7.8	7.5	8.2	7.5	
12/21/2012	7.4	7.1	6.8	6.7	7.4	7.8	7.0	6.7	
12/22/2012	8.0	7.7	8.1	8.3	8.4	8.5	8.6	7.7	
12/23/2012	8.6	8.5	8.6	8.3	8.2	8.3	9.1	8.2	
12/24/2012	8.3	8.2	8.1	8.0	7.8	7.7	8.6	7.7	
12/25/2012	7.8	8.0	8.0	7.9	8.0	8.2	8.3	7.8	
12/26/2012	8.3	8.4	8.5	8.2	8.2	8.0	8.4	8.0	
12/27/2012	8.0	7.7	7.9	8.0	8.1	8.2	8.3	7.7	
12/28/2012	8.3	8.2	7.7	7.6	7.6	7.6	8.8	7.6	
12/29/2012	7.6	7.6	7.8	7.8	7.7	7.8	8.1	7.6	
12/30/2012	7.9	8.1	7.4	7.5	7.5	7.7	8.7	7.4	
12/31/2012	7.7	7.8	7.7	7.4	7.4	7.3	8.8	7.3	
Min	6.66	6.72	6.70	6.74	7.02	6.45	6.7	Min	6.45
Max	8.56	8.50	8.58	8.34	8.40	8.46	9.1	Max	8.22
								Avg	7.38

	December 2012 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Dec	0.04	0.02	0.02	0.02	0.02	0.04	0.03	
2-Dec	0.04	0.03	0.03	0.06	0.03	0.03	0.04	
3-Dec	0.05	0.04	0.04	0.07	0.07	0.02	0.05	
4-Dec	0.02	0.01	0.03	0.08	0.07	0.03	0.04	
5-Dec	0.04	0.00	0.04	0.05	0.04	0.04	0.04	
6-Dec	0.06	0.02	0.04	0.04	0.03	0.05	0.04	
7-Dec	0.05	0.01	0.03	0.04	0.05	0.03	0.04	
8-Dec	0.03	0.05	0.02	0.01	0.03	0.04	0.03	
9-Dec	0.03	0.04	0.01	0.04	0.03	0.04	0.03	
10-Dec	0.02	0.03	0.06	0.02	0.06	0.03	0.04	
11-Dec	0.05	0.04	0.06	0.04	0.04	0.03	0.04	
12-Dec	0.04	0.05	0.05	0.02	0.05	0.04	0.04	
13-Dec	0.06	0.04	0.05	0.06	0.02	0.06	0.05	
14-Dec	0.05	0.01	0.07	0.03	0.04	0.03	0.04	
15-Dec	0.04	0.03	0.00	0.06	0.04	0.03	0.03	
16-Dec	0.05	0.02	0.06	0.01	0.00	0.03	0.03	
17-Dec	0.04	0.01	0.00	0.07	0.02	0.04	0.03	
18-Dec	0.03	0.02	0.00	0.04	0.01	0.05	0.03	
19-Dec	0.05	0.03	0.03	0.04	0.04	0.04	0.04	
20-Dec	0.03	0.03	0.02	0.03	0.04	0.06	0.04	
21-Dec	0.04	0.04	0.00	0.03	0.04	0.02	0.03	
22-Dec	0.00	0.03	0.01	0.01	0.01	0.04	0.02	
23-Dec	0.04	0.03	0.00	0.01	0.01	0.00	0.02	
24-Dec	0.06	0.02	0.03	0.05	0.02	0.00	0.03	
25-Dec	0.02	0.02	0.02	0.00	0.00	0.03	0.02	
26-Dec	0.02	0.04	0.02	0.00	0.00	0.03	0.02	
27-Dec	0.01	0.01	0.02	0.02	0.01	0.02	0.02	
28-Dec	0.03	0.02	0.01	0.00	0.01	0.00	0.01	
29-Dec	0.09	0.01	0.00	0.01	0.02	0.01	0.02	
30-Dec	0.04	0.02	0.02	0.02	0.01	0.00	0.02	
31-Dec	0.01	0.03	0.05	0.00	0.03	0.01	0.02	
Average	0.04	0.03	0.03	0.03	0.03	0.03	0.03	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.09	0.05	0.07	0.08	0.07	0.06		

CITY OF READING WASTEWATER TREATMENT PLANT

December 2012 Biosolids Report

Solids Processing:

	Total
Sludge Pumped from Primary Settling Tanks (gallons):	3,282,992
Secondary Sludge Pumped to Mix Tank (gallons):	4,947,000
Supernated from Secondary Digesters (gallons):	0

Gravity Belt Thickeners:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	4,614,732	2,930,666	369,341	7,914,739
Thickened Sludge (gallons):	971,000	541,400	106,097	1,618,497
Polymer (pounds):	570.76	473.13	60.08	1103.97
Solids (dry tons):	216.40	122.98	24.17	363.55
Polymer dosage (pounds/dry ton):	2.64	3.85	2.49	3.04
% Reduction:	78.96%	81.53%	71.27%	79.55%
GBT Solids in Filtrate (dry tons):	5.28	14.83	2.31	22.42
GBT 1 Hours of Operation:	140.00	92.50	24.00	256.50
GBT 2 Hours of Operation:	145.00	100.50	24.00	269.50
Total GBT Hours of Operation:	285.00	193.00	48.00	526.00
Dry tons/hour:	0.76	0.64	0.50	0.69

Belt Filter Presses:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	865,405	607,795	144,697	1,617,897
Polymer (pounds):	863.65	766.02	112.65	1742.32
Solids (dry tons):	78.63	58.63	12.46	149.73
Polymer dosage (pounds/dry ton):	10.98	13.06	9.04	11.64
% Solids Recovery:	90.43%	95.06%	93.51%	93.00%
Solids in Filtrate (dry tons):	4.67	3.14	0.89	8.70
BFP 1 Hours of Operation:	4.00	16.00	4.00	24.00
BFP 2 Hours of Operation:	59.50	32.00	12.50	104.00
BFP 3 Hours of Operation:	151.00	116.00	30.00	297.00
BFP 4 Hours of Operation:	151.00	119.00	30.00	300.00
Total BFP Hours of Operation:	365.50	283.00	76.50	725.00
Dry tons/hour:	0.22	0.21	0.16	0.21

Total Solids in Filtrate (dry tons):	31.12
% Solids (Method 2540 G):	17.69%
Total Wet Tons Removed:	897.27
Dry Tons Removed:	158.73
Hours of Operation:	315
Fritz Island Scum Disposed (tons):	0.00
Fritz Island Grit Disposed (tons):	6.08
6th & Canal Grit Disposed (tons):	11.14
Mix Tank Cleaning/Snail Shells Disposed (tons):	0.00
Sanitary Sewer Excavation Soil (tons):	0.00

December 2012 Biosolids Report

Date	Volatile Solids Reducton PST (VS%)	Sec Dig (VS%)	VSR (%)	Feed	% Solids Cake (I-3750-85)	Filtrate	Thickened	GBT Filtrate	Polymer (lbs)	BFP Feed (gal)	Solids (dry tons)	Polymer Dose lb/dry ton	Wet Tons	6th St.	Grit	Snail Shells	Scum	Supernated (gpd)	GBT Feed (gal)	Thickened (gal)	GBT Poly (lbs)	Date
Sat 1						0.08%	4.24%	0.08%	30.04	19,973	0.00							0	181,685	47,300	37.55	Sat 1
Sun 2				2.47%	19.90%	0.09%	5.39%	0.09%	30.04	33,272	3.43	8.77						0	213,145	47,800	30.04	Sun 2
Mon 3				2.92%	17.62%	0.12%	5.51%	0.12%	82.61	74,425	9.06	9.12	89.93					0	445,349	70,899	75.10	Mon 3
Tue 4				2.03%	18.82%	0.14%	4.32%	0.14%	67.59	80,082	6.78	9.97	18.51					0	278,056	45,400	30.04	Tue 4
Wed 5	84.85%	69.84%	58.65%	1.60%	17.06%	0.06%	5.77%	0.06%	52.57	56,578	3.77	13.93	34.26					0	215,137	41,901	22.53	Wed 5
Thu 6				1.88%	17.97%	0.12%	5.99%	0.12%	0.00	0	0.00		16.99	5.35				0	0	0	0.00	Thu 6
Fri 7				1.73%	17.21%	0.15%	5.20%	0.15%	60.08	74,881	5.40	11.12	36.97					0	340,174	56,001	52.57	Fri 7
Sat 8				1.92%	16.62%	0.10%	4.98%	0.10%	45.06	31,661	2.53	17.78						0	147,878	30,100	22.53	Sat 8
Sun 9				2.53%	17.36%	0.13%	4.61%	0.13%	37.55	36,813	3.88	9.67						0	208,799	49,600	45.06	Sun 9
Mon 10				1.57%	16.62%	0.13%	5.78%	0.13%	75.10	69,698	4.56	16.46	73.09					0	345,872	76,300	52.57	Mon 10
Tue 11				1.92%	17.92%	0.21%	5.30%	0.21%	60.08	79,269	6.35	9.47	18.17					0	258,158	55,100	30.04	Tue 11
Wed 12	84.54%	67.10%	62.70%	1.88%	17.48%	0.12%	5.68%	0.12%	67.59	70,577	5.53	12.22	35.19					0	239,887	55,399	45.06	Wed 12
Thu 13				1.74%	17.94%	0.14%	4.89%	0.14%	60.08	57,474	4.17	14.41	29.71					0	273,351	65,001	37.55	Thu 13
Fri 14				2.03%	17.90%	0.12%	5.40%	0.12%	45.06	53,685	4.54	9.92	31.39					0	200,920	42,199	22.53	Fri 14
Sat 15				2.39%	18.46%	0.10%	4.79%	0.10%	37.55	35,655	3.55	10.57						0	248,338	90,501	30.04	Sat 15
Sun 16				1.96%	17.50%	0.13%	5.39%	0.13%	52.57	35,595	2.91	18.07						0	198,902	56,800	15.02	Sun 16
Mon 17				2.85%	18.21%	0.14%	5.14%	0.14%	112.65	66,319	7.88	14.29	71.38					0	366,442	92,000	22.53	Mon 17
Tue 18				2.22%	15.32%	0.14%	5.51%	0.14%	105.14	90,457	8.37	12.56	35.28					0	366,434	59,199	60.08	Tue 18
Wed 19	84.38%	68.12%	60.45%	2.70%	18.24%	0.13%	6.43%	0.13%	60.08	39,147	4.41	13.63	37.52					0	209,195	32,199	37.55	Wed 19
Thu 20				2.85%	17.04%	0.12%	5.81%	0.12%	45.06	48,259	5.74	7.86	36.19					0	284,947	43,200	37.55	Thu 20
Fri 21				1.93%	18.15%	0.10%	6.11%	0.10%	60.08	53,325	4.29	14.00	16.72					0	278,387	44,800	60.08	Fri 21
Sat 22				2.49%	16.93%	0.11%	4.83%	0.11%	75.10	54,536	5.66	13.26	35.15					0	226,088	53,300	30.04	Sat 22
Sun 23				2.92%	17.80%	0.14%	5.60%	0.14%	30.04	37,556	4.57	6.57						0	243,048	68,200	37.55	Sun 23
Mon 24				2.02%	18.15%	0.15%	4.31%	0.15%	82.61	79,836	6.72	12.28	70.83					0	361,925	82,800	52.57	Mon 24
Tue 25									0.00	0	0.00							0	0	0	0.00	Tue 25
Wed 26	86.00%	63.86%	71.23%	2.64%	18.00%	0.08%	5.94%	0.08%	75.10	78,395	8.63	8.70	17.15					0	319,520	61,400	45.06	Wed 26
Thu 27				2.87%	16.70%	0.14%	6.55%	0.14%	112.65	94,387	11.30	9.97	51.61					0	326,442	61,200	60.08	Thu 27
Fri 28				1.57%	16.73%	0.16%	6.26%	0.16%	67.59	58,600	3.84	17.62	50.83	5.79	6.08			0	416,071	86,798	45.06	Fri 28
Sat 29				2.38%	18.32%	0.13%	6.17%	0.13%	52.57	47,274	4.69	11.20	36.07					0	224,411	43,601	37.55	Sat 29
Sun 30				2.78%	18.35%	0.14%	5.44%	0.14%	30.04	32,533	3.77	7.97						0	215,709	59,499	30.04	Sun 30
Mon 31				2.92%	18.55%	0.13%	5.77%	0.13%	30.04	27,635	3.36	8.93	54.33					0	280,469	0	0.00	Mon 31
Total:					512.87%				1,742.32	1,617,897	149.73	11.64	897.27	11.14	6.08	0.00	0.00	0	7,914,739	1,618,497	1103.97	
Ave:	84.94%	67.23%	63.26%	2.27%	17.69%	0.13%	5.44%	0.13%	56.20	52,190	4.83	11.80	40.79	5.57	6.08	0.00	0.00	0	255,314	52,210	35.61	
Min:	84.38%	63.86%	58.65%	1.57%	15.32%	0.06%	4.24%	0.06%	0.00	0	0.00	6.57	16.72									
Max:	86.00%	69.84%	71.23%	2.92%	19.90%	0.21%	6.55%	0.21%	112.65	94,387	11.30	18.07	89.93									

Total Dry Tons, Cake =	897.27	x	17.69	x	0.01 =	158.73 dry tons

December 2012 Solids Operations Report

10 PM - 6 AM

Date	BFP % Solids			Belt Filter Press					Total	Dry tons	Filtrate	GBT % Solids		Gravity Belt Thickener				Thickened	Polymer	Total	Dry tons	Filtrate
	Feed	Cake	Filtrate	Feed	Polymer	Solids	Poly Dosage	% Solids	BFP	per	Solids	Thickened	Filtrate	Feed	Thicknd	%	Polymer	Solids	Dosage	GBT	per	Solids
	(I-3750-85)			(gal)	(lbs)	(dry tons)	(lbs/dry ton)	Recovery	Hours	hour	(dry tons)	(I-3750-85)		(gal)	(gal)	Reduc.	(lbs)	(dry tons)	(lbs/dry ton)	Hours	hour	(dry tons)
Sat 1	0.00%		0.08%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 2	2.47%	19.90%	0.09%	33,272	30.04	3.43	8.77	96.79%	16.00	0.21	0.12	5.39%	0.09%	213,145	47,800	77.57%	30.04	10.74	2.80	16.00	0.67	0.179393
Mon 3	2.92%	17.62%	0.12%	25,393	30.04	3.09	9.72	96.55%	16.00	0.19	0.13	5.51%	0.12%	264,880	47,400	82.11%	45.06	10.89	4.14	16.00	0.68	0.23719
Tue 4	2.03%	18.82%	0.14%	66,301	52.57	5.61	9.37	93.80%	24.00	0.23	0.39	4.32%	0.14%	246,153	37,301	84.85%	22.53	6.72	3.35	16.00	0.42	0.217763
Wed 5	1.60%	17.06%	0.06%	56,578	52.57	3.77	13.93	96.59%	24.00	0.16	0.14	5.77%	0.06%	215,137	41,901	80.52%	22.53	10.08	2.23	14.00	0.72	0.104836
Thu 6	1.88%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 7	1.73%	17.21%	0.15%	18,231	0.00	1.32	0.00	92.13%	6.00	0.22	0.11	5.20%	0.15%	74,787	16,600	77.80%	0.00	3.60	0.00	4.00	0.90	0.103833
Sat 8	1.92%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 9	2.53%	17.36%	0.13%	36,813	37.55	3.88	9.67	95.58%	16.00	0.24	0.20	4.61%	0.13%	208,799	49,600	76.25%	45.06	9.53	4.73	16.00	0.60	0.268882
Mon 10	1.57%	16.62%	0.13%	50,546	45.06	3.31	13.62	92.44%	16.00	0.21	0.27	5.78%	0.13%	309,572	66,400	78.55%	45.06	16.00	2.82	16.00	1.00	0.359954
Tue 11	1.92%	17.92%	0.21%	53,726	37.55	4.30	8.73	90.12%	24.00	0.18	0.47	5.30%	0.21%	202,441	38,300	81.08%	22.53	8.46	2.66	16.00	0.53	0.335393
Wed 12	1.88%	17.48%	0.12%	54,997	52.57	4.31	12.19	94.26%	24.00	0.18	0.28	5.68%	0.12%	186,897	37,200	80.10%	30.04	8.81	3.41	12.00	0.73	0.186149
Thu 13	1.74%	17.94%	0.14%	40,440	45.06	2.93	15.36	92.68%	16.00	0.18	0.24	4.89%	0.14%	200,969	46,101	77.06%	22.53	9.40	2.40	16.00	0.59	0.269138
Fri 14	2.03%	17.90%	0.12%	53,685	45.06	4.54	9.92	94.72%	24.00	0.19	0.27	5.40%	0.12%	200,920	42,199	79.00%	22.53	9.50	2.37	16.00	0.59	0.211164
Sat 15	2.39%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 16	1.96%	17.50%	0.13%	35,595	52.57	2.91	18.07	94.07%	16.00	0.18	0.19	5.39%	0.13%	198,902	56,800	71.44%	15.02	12.77	1.18	16.00	0.80	0.307913
Mon 17	2.85%	18.21%	0.14%	25,290	52.57	3.01	17.49	95.82%	16.00	0.19	0.15	5.14%	0.14%	234,400	71,200	69.62%	15.02	15.26	0.98	16.00	0.95	0.415666
Tue 18	2.22%	15.32%	0.14%	46,358	60.08	4.29	14.00	94.56%	16.00	0.27	0.27	5.51%	0.14%	265,623	47,400	82.16%	60.08	10.89	5.52	14.00	0.78	0.276721
Wed 19	2.70%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 20	2.85%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 21	1.93%	18.15%	0.10%	10,427	0.00	0.84	0.00	95.34%	0.00		0.04			0	0		0.00			0.00		
Sat 22	2.49%	16.93%	0.11%	54,536	75.10	5.66	13.26	96.21%	14.00	0.40	0.25	4.83%	0.11%	226,088	53,300	76.43%	30.04	10.74	2.80	11.00	0.98	0.244487
Sun 23	2.92%	17.80%	0.14%	37,556	30.04	4.57	6.57	95.96%	20.50	0.22	0.22	5.60%	0.14%	243,048	68,200	71.94%	37.55	15.93	2.36	16.00	1.00	0.398152
Mon 24	2.02%	18.15%	0.15%	37,707	45.06	3.18	14.19	93.35%	17.00	0.19	0.24	4.31%	0.15%	213,102	46,499	78.18%	30.04	8.36	3.59	10.00	0.84	0.290851
Tue 25	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Wed 26	2.64%	18.00%	0.08%	11,144	7.51	1.23	6.12	97.40%	8.00	0.15	0.04	5.94%	0.08%	64,546	16,100	75.06%	7.51	3.99	1.88	4.00	1.00	0.05371
Thu 27	2.87%		0.14%	0	0.00	0.00			8.00	0.00	0.00	6.55%	0.14%	56,964	16,100	71.74%	0.00	4.40	0.00	4.00	1.10	0.093992
Fri 28	1.57%	16.73%	0.16%	9,368	0.00	0.61	0.00	90.68%	4.00	0.15	0.06	6.26%	0.16%	67,770	21,499	68.28%	0.00	5.61	0.00	4.00	1.40	0.143441
Sat 29	2.38%	18.32%	0.13%	47,274	52.57	4.69	11.20	95.21%	24.00	0.20	0.26	6.17%	0.13%	224,411	43,601	80.57%	37.55	11.22	3.35	16.00	0.70	0.236361
Sun 30	2.78%	18.35%	0.14%	32,533	30.04	3.77	7.97	95.69%	16.00	0.24	0.19	5.44%	0.14%	215,709	59,499	72.42%	30.04	13.50	2.23	16.00	0.84	0.347355
Mon 31	2.92%		0.13%	27,635	30.04	3.36	8.93	0.00%	0.00		0.15			280,469	0		0.00			0.00		
Total =				865,405	863.65	78.63	10.98	90.43%	365.50	4.39	4.67			4,614,732	971,000	78.96%	570.76	216.40	2.64	285.00	17.81	5.28
Average =	2.12%	17.70%	0.12%	27,916	27.86	2.54	9.96	90.43%	11.79	0.20	0.16	5.41%	0.13%	148,862	31,323	76.94%	18.41	9.84	2.49	9.19	0.81	0.24
Minimum =	0.00%	15.32%	0.00%	0	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	4.31%	0.06%	0	0	68.28%	0.00	3.60	0.00	0.00	0.42	0.05
Maximum =	2.92%	19.90%	0.21%	66,301	75.10	5.66	18.07	97.40%	24.00	0.40	0.47	6.55%	0.21%	309,572	71,200	84.85%	60.08	16.00	5.52	16.00	1.40	0.42

(%feed)(%cake - %filtrate)

December 2012 Solids Operations Report

10 PM - 6 AM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd Sludge	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Sat 1																										
Sun 2	8	3.00%	18.96%	0.15%	4.76%	2.10%	19.30%	0.14%	5.25%	0	0	16371	16901	2	2	78,000	135,145	47,800	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Mon 3	8	3.25%	19.49%	0.16%	5.18%	3.15%	21.74%	0.16%	4.65%	0	0	12493	12900	2	2	89,500	175,380	47,400	4	2	0.00	0.00	8.00	8.00	8.00	8.00
Tue 4	8	2.85%	19.12%	0.16%	4.67%	1.50%	18.28%	0.15%	5.03%	0	0	24600	41701	3	4	87,900	158,253	37,301	2	1	0.00	8.00	8.00	8.00	8.00	8.00
Wed 5	8	2.02%	18.84%	0.16%	4.93%	1.80%	17.84%	0.14%	5.44%	0	0	21878	34700	3	4	78,900	136,237	41,901	2	1	0.00	8.00	8.00	8.00	7.00	7.00
Thu 6																										
Fri 7	2									0	0	7630	10601	0	0	28,600	46,187	16,600	0	0	0.00	2.00	2.00	2.00	2.00	2.00
Sat 8																										
Sun 9	8	2.85%	18.05%	0.15%	5.03%	1.89%	17.44%	0.14%	4.48%	0	0	18313	18500	2	3	80,700	128,099	49,600	3	3	0.00	0.00	8.00	8.00	8.00	8.00
Mon 10	8	2.60%	17.80%	0.16%	4.89%	1.28%	17.18%	0.15%	5.15%	0	0	25145	25401	3	3	116,899	192,673	66,400	4	2	0.00	0.00	8.00	8.00	8.00	8.00
Tue 11	8	2.10%	18.02%	0.18%	4.79%	2.02%	17.90%	0.17%	4.55%	0	0	20726	33000	2	3	56,500	145,941	38,300	2	1	0.00	8.00	8.00	8.00	8.00	8.00
Wed 12	8	2.10%	18.09%	0.14%	4.89%	1.80%	17.27%	0.13%	4.19%	0	0	19897	35100	3	4	71,101	115,796	37,200	3	1	0.00	8.00	8.00	8.00	6.00	6.00
Thu 13	8	1.65%	18.44%	0.14%	4.93%	1.48%	17.89%	0.14%	4.79%	0	0	20139	20301	3	3	81,799	119,170	46,101	2	1	0.00	0.00	8.00	8.00	8.00	8.00
Fri 14	8	2.64%	17.27%	0.15%	5.12%	1.50%	17.67%	0.14%	4.59%	0	0	20385	33300	2	4	81,501	119,419	42,199	2	1	0.00	8.00	8.00	8.00	8.00	8.00
Sat 15																										
Sun 16	8	1.85%	17.27%	0.14%	4.34%	2.03%	17.08%	0.15%	5.16%	0	0	16594	19001	3	4	95,501	103,401	56,800	0	2	0.00	0.00	8.00	8.00	8.00	8.00
Mon 17	8	2.80%	18.51%	0.14%	4.74%	2.90%	17.23%	0.15%	4.83%	0	0	12190	13100	3	4	111,000	123,400	71,200	0	2	0.00	0.00	8.00	8.00	8.00	8.00
Tue 18	8	2.61%	17.73%	0.16%	4.88%	2.80%	18.04%	0.15%	2.80%	0	0	19458	26900	3	5	136,000	129,623	47,400	3	5	0.00	0.00	8.00	8.00	8.00	6.00
Wed 19																										
Thu 20																										
Fri 21	2											5726	4701													
Sat 22	7	2.10%	17.85%	0.15%	4.78%	2.10%	17.05%	0.15%	4.71%	0	0	21036	33500	4	6	94,499	131,589	53,300	2	2	0.00	0.00	7.00	7.00	5.00	6.00
Sun 23	8	2.50%	17.15%	0.16%	4.67%	2.80%	17.55%	0.15%	4.82%	0	0	19356	18200	2	2	108,900	134,148	68,200	3	2	0.00	4.50	8.00	8.00	8.00	8.00
Mon 24	8	3.25%	18.83%	0.16%	4.87%	1.95%	19.80%	0.16%	4.87%	0	0	19207	18500	3	3	8,600	204,502	46,499	3	1	0.00	1.00	8.00	8.00	2.00	8.00
Tue 25																										
Wed 26	2									0	0	3744	7400	0	1	23,401	41,145	16,100	1	0	2.00	2.00	2.00	2.00	2.00	2.00
Thu 27	2									0	0	0	0	0	0	24,171	32,793	16,100	0	0	2.00	2.00	2.00	2.00	2.00	2.00
Fri 28	2									0	0	4368	5000	0	0	32,400	35,370	21,499	0	0	0.00	0.00	2.00	2.00	2.00	2.00
Sat 29	8	2.60%	17.50%	0.16%	4.95%	2.10%	18.17%	0.15%	5.25%	0	0	16374	30900	2	5	90,200	134,211	43,601	3	2	0.00	8.00	8.00	8.00	8.00	8.00
Sun 30	8	2.80%	18.31%	0.15%	5.20%	2.55%	17.08%	0.16%	5.11%	0	0	16034	16499	2	2	90,301	125,408	59,499	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Mon 31	8	2.55%	17.81%	0.15%	4.67%	2.65%	17.88%	0.15%	4.49%	0	0	12634	15001	2	2	118,800	161,669									
	161	2.53%	18.16%	0.15%	4.86%	2.13%	18.03%	0.15%	4.75%	0	0	374298	491107	49	66	1,785,173	2,829,559	971,000	45	31	4.00	59.50	151.00	151.00	140.00	145.00
	Min:	1.65%	17.15%	0.14%	4.34%	1.28%	17.05%	0.13%	2.80%																	
	Max:	3.25%	19.49%	0.18%	5.20%	3.15%	21.74%	0.17%	5.44%	0	0	25145	41701	4	6	136,000	204,502	71,200	4	5	2.00	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

December 2012 Solids Operations Report

6 AM - 2 PM

Date	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened	GBT % Solids Filtrate (I-3750-85)	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Sat 1	0.00%		0.08%	19,973	30.04	0.00			16.00	0.00	0.07	4.24%	0.08%	181,685	47,300	73.97%	37.55	8.36	4.49	14.00	0.60	0.61
Sun 2	2.47%		0.09%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 3	2.92%	17.62%	0.12%	33,358	37.55	4.06	9.24	96.55%	14.00	0.29	0.17	5.51%	0.12%	155,729	17,199	88.96%	22.53	3.95	5.70	12.00	0.33	0.78
Tue 4	2.03%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 5	1.60%		0.06%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 6	1.88%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 7	1.73%	17.21%	0.15%	48,318	60.08	3.49	17.24	92.13%	24.00	0.15	0.30	5.20%	0.15%	237,848	33,001	86.13%	52.57	7.16	7.35	16.00	0.45	1.49
Sat 8	1.92%	16.62%	0.10%	31,661	45.06	2.53	17.78	95.37%	16.00	0.16	0.13	4.98%	0.10%	147,878	30,100	79.65%	22.53	6.25	3.60	12.00	0.52	0.62
Sun 9	2.53%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 10	1.57%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 11	1.92%		0.21%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 12	1.88%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 13	1.74%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 14	2.03%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 15	2.39%	18.46%	0.10%	35,655	37.55	3.55	10.57	96.34%	16.00	0.22	0.15	4.79%	0.10%	248,338	90,501	63.56%	30.04	18.08	1.66	16.00	1.13	1.04
Sun 16	1.96%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 17	2.85%	18.21%	0.14%	41,029	60.08	4.88	12.32	95.82%	16.00	0.30	0.24	5.14%	0.14%	132,042	20,800	84.25%	7.51	4.46	1.68	13.00	0.34	0.77
Tue 18	2.22%	15.32%	0.14%	44,099	45.06	4.08	11.04	94.56%	16.00	0.26	0.26	5.51%	0.14%	100,811	11,799	88.30%	0.00	2.71	0.00	4.00	0.68	0.59
Wed 19	2.70%	18.24%	0.13%	39,147	60.08	4.41	13.63	95.87%	24.00	0.18	0.21	6.43%	0.13%	209,195	32,199	84.61%	37.55	8.63	4.35	16.00	0.54	1.13
Thu 20	2.85%	17.04%	0.12%	41,142	45.06	4.89	9.22	96.47%	24.00	0.20	0.21	5.81%	0.12%	284,947	43,200	84.84%	37.55	10.47	3.59	20.00	0.52	1.43
Fri 21	1.93%	18.15%	0.10%	42,898	60.08	3.45	17.40	95.34%	16.00	0.22	0.18	6.11%	0.10%	278,387	44,800	83.91%	60.08	11.41	5.26	14.00	0.82	1.16
Sat 22	2.49%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 23	2.92%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 24	2.02%	18.15%	0.15%	42,129	37.55	3.55	10.58	93.35%	21.00	0.17	0.26	4.31%	0.15%	148,823	36,301	75.61%	22.53	6.52	3.45	8.00	0.82	0.93
Tue 25	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Wed 26	2.64%	18.00%	0.08%	67,251	67.59	7.40	9.13	97.40%	32.00	0.23	0.22	5.94%	0.08%	254,974	45,300	82.23%	37.55	11.22	3.35	16.00	0.70	0.85
Thu 27	2.87%	18.70%	0.14%	81,271	112.65	9.73	11.58	95.93%	32.00	0.30	0.47	6.55%	0.14%	269,478	45,100	83.26%	60.08	12.32	4.88	16.00	0.77	1.57
Fri 28	1.57%	16.73%	0.16%	39,864	67.59	2.61	25.90	90.68%	16.00	0.16	0.27	6.26%	0.16%	280,531	43,800	84.39%	45.06	11.43	3.94	16.00	0.71	1.87
Sat 29	2.38%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 30	2.78%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 31	2.92%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				607,795	766.02	58.63	13.06	95.06%	283.00	2.85	3.14			2,930,666	541,400	81.53%	473.13	122.98	3.85	193.00	8.92	14.83
Average =	2.12%	17.42%	0.12%	19,606	24.71	1.89	13.51	95.06%	9.13	0.20	0.10	5.48%	0.12%	94,538	17,465	81.69%	15.26	8.78	3.81	6.23	0.64	1.06
Minimum =	0.00%	15.32%	0.00%	0	0.00	0.00	9.13	90.68%	0.00	0.00	0.00	4.24%	0.08%	0	0	63.56%	0.00	2.71	0.00	0.00	0.33	0.59
Maximum =	2.92%	18.46%	0.21%	81,271	112.65	9.73	25.90	97.40%	32.00	0.30	0.47	6.55%	0.16%	284,947	90,501	88.96%	60.08	18.08	7.35	20.00	1.13	1.87

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

December 2012 Solids Operations Report

6 AM - 2 PM

Date	Hours of Operation	Mix Tank Level	% Solids								BFP Sludge Processed				BFP Polymer					GBT Polymer		Hours of Operation					
			1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Thicknd Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Sat 1	8	8.96			0.14%	3.95%					0	0	10,773	9,200	2	2	70,400	111,285	47,300	3	2	0.00	0.00	8.00	8.00	7.00	7.00
Sun 2																											
Mon 3	7	8.93	2.90%	18.33%	0.12%	5.17%	1.15%	2.20%	15.65%	0.14%	0	0	16,259	17,099	3	2	55,800	99,929	17,199	2	1	0.00	0.00	7.00	7.00	6.00	6.00
Tue 4																											
Wed 5																											
Thu 6																											
Fri 7	8	9.59	2.10%	16.18%	0.14%	5.02%	2.20%	16.34%	0.14%	5.29%	0	0	18,519	29,799	4	4	90,000	147,848	33,001	4	3	0.00	8.00	8.00	8.00	8.00	8.00
Sat 8	8	8.47	2.75%	18.06%	0.12%	4.56%	2.80%	16.45%	0.12%		0	0	15,562	16,099	3	3	55,600	92,278	30,100	3	0	0.00	0.00	8.00	8.00	6.00	6.00
Sun 9																											
Mon 10																											
Tue 11																											
Wed 12																											
Thu 13																											
Fri 14																											
Sat 15	8	10.26	2.40%	17.64%	0.14%	5.31%	2.40%	17.95%	0.14%	4.80%	0	0	15,456	20,199	3	2	109,899	138,439	90,501	3	1	0.00	0.00	8.00	8.00	8.00	8.00
Sun 16																											
Mon 17	8	9.16	2.95%	17.84%	0.12%	4.75%	2.00%	17.95%	0.12%		0	0	19,730	21,299	3	5	69,800	62,242	20,800	0	1	0.00	0.00	8.00	8.00	6.50	6.50
Tue 18	8	7.16	2.40%	17.53%	0.13%		2.10%	16.30%	0.14%		0	0	16,192	27,907	2	4	48,600	52,211	11,799	0	0	0.00	0.00	8.00	8.00	2.00	2.00
Wed 19	12	7.42	2.50%	16.43%	0.14%	6.35%	3.20%	19.57%	0.14%	5.98%	0	0	18,948	20,199	4	4	91,400	117,795	32,199	3	2	0.00	0.00	12.00	12.00	8.00	8.00
Thu 20	12	8.45	2.60%	16.47%	0.14%	5.70%	2.90%	16.65%	0.14%	5.39%	0	0	20,042	21,100	3	3	125,800	159,147	43,200	3	2	0.00	0.00	12.00	12.00	10.00	10.00
Fri 21	8	8.88	2.00%	15.76%	0.12%	6.44%	3.05%	18.75%	0.12%	6.26%	0	0	19,698	23,200	4	4	123,600	154,787	44,800	5	3	0.00	0.00	8.00	8.00	7.00	7.00
Sat 22																											
Sun 23																											
Mon 24	8	9.65	2.60%	17.45%	0.14%	4.04%	2.45%	16.40%	0.16%		0	0	10,529	31,600	2	3	22,700	126,123	36,301	2	1	0.00	8.00	5.00	8.00	0.00	8.00
Tue 25																											
Wed 26	8	8.50	2.70%	16.81%	0.14%	5.43%	2.75%	17.10%	0.12%	5.02%	0	0	29,552	37,699	2	7	95,799	159,175	45,300	3	2	8.00	8.00	8.00	8.00	8.00	8.00
Thu 27	8	8.26	2.65%	16.87%	0.15%	5.13%	2.40%	16.16%	0.15%	5.36%	0	0	36,270	45,001	7	8	111,000	158,478	45,100	5	3	8.00	8.00	8.00	8.00	8.00	8.00
Fri 28	8	8.52	2.15%	18.84%	0.16%	6.07%	2.10%	15.65%	0.14%	5.56%	0	0	19,264	20,600	4	5	122,399	158,132	43,800	4	2	0.00	0.00	8.00	8.00	8.00	8.00
Sat 29																											
Sun 30																											
Mon 31																											
	119		2.52%	17.25%	0.14%	5.22%	2.42%	15.98%	1.33%	4.87%	0	0	266,794	341,001	46	56	1,192,797	1,737,869	541,400	40	23	16.00	32.00	116.00	119.00	92.50	100.50
		7.16	2.00%	15.76%	0.12%	3.95%	1.15%	2.20%	0.12%	0.14%																	
		10.26	2.95%	18.84%	0.16%	6.44%	3.20%	19.57%	15.65%	6.26%	0	0	36,270	45,001	7	8	125,800	159,175	90,501	5	3	8.00	8.00	12.00	12.00	10.00	10.00

Numbers in Red Font are Lab Data

December 2012 Solids Operations Report

2 PM - 10 PM

Date	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened	GBT % Solids Filtrate (I-3750-85)	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Sat 1	0.00%		0.08%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 2	2.47%		0.09%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 3	2.92%	17.62%	0.12%	15,674	15.02	1.91	7.87	96.55%	8.50	0.22	0.08	5.51%	0.12%	24,740	6,300	74.54%	7.51	1.45	5.19	8.00	0.18	0.12
Tue 4	2.03%	18.82%	0.14%	13,781	15.02	1.17	12.88	93.80%	12.00	0.10	0.08	4.32%	0.14%	31,903	8,099	74.61%	7.51	1.46	5.15	8.00	0.18	0.19
Wed 5	1.60%		0.06%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 6	1.88%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 7	1.73%	17.21%	0.15%	8,332	0.00	0.60	0.00	92.13%	0.00		0.05	5.20%	0.15%	27,539	6,400	76.76%	0.00	1.39	0.00	4.00	0.35	0.17
Sat 8	1.92%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 9	2.53%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 10	1.57%	16.62%	0.13%	19,152	30.04	1.25	23.96	92.44%	8.00	0.16	0.10	5.78%	0.13%	36,300	9,900	72.73%	7.51	2.39	3.15	2.00	1.19	0.20
Tue 11	1.92%	17.92%	0.21%	25,543	22.53	2.05	11.02	90.12%	12.00	0.17	0.22	5.30%	0.21%	55,717	16,800	69.85%	7.51	3.71	2.02	8.00	0.46	0.49
Wed 12	1.88%	17.48%	0.12%	15,580	15.02	1.22	12.30	94.26%	8.00	0.15	0.08	5.68%	0.12%	52,990	16,199	65.66%	15.02	4.31	3.48	4.00	1.08	0.27
Thu 13	1.74%	17.94%	0.14%	17,034	15.02	1.24	12.15	92.68%	8.00	0.15	0.10	4.89%	0.14%	72,382	18,900	73.89%	15.02	3.85	3.90	8.00	0.48	0.42
Fri 14	2.03%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 15	2.39%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 16	1.96%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 17	2.85%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 18	2.22%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 19	2.70%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 20	2.85%	17.04%	0.12%	7,117	0.00	0.85	0.00	96.47%	0.00		0.04			0	0		0.00			0.00		
Fri 21	1.93%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 22	2.49%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 23	2.92%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 24	2.02%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 25	0.00%		0.00%	0	0.00	0.00			0.00					0	0		0.00			0.00		
Wed 26	2.64%		0.08%	0	0.00	0.00			8.00	0.00	0.00			0	0		0.00			2.00		
Thu 27	2.87%	16.70%	0.14%	13,116	0.00	1.57	0.00	95.93%	8.00	0.20	0.08			0	0		0.00			2.00		
Fri 28	1.57%	16.73%	0.16%	9,368	0.00	0.61	0.00	90.68%	4.00	0.15	0.06	6.26%	0.16%	67,770	21,499	68.28%	0.00	5.61	0.00	2.00	2.81	0.45
Sat 29	2.38%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 30	2.78%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 31	2.92%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				144,697	112.85	12.46	9.04	93.51%	76.50	1.31	0.89			369,341	108,097	71.27%	60.08	24.17	2.49	48.00	6.73	2.31
Average =	2.12%	17.41%	0.12%	4,668	3.83	0.40	8.02	93.51%	2.47	0.15	0.03	5.37%	0.15%	11,914	3,422	72.04%	1.94	3.02	2.86	1.55	0.84	0.29
Minimum =	0.00%	16.62%	0.00%	0	0.00	0.00	0.00	90.12%	0.00	0.00	0.00	4.32%	0.12%	0	0	65.66%	0.00	1.39	0.00	0.00	0.18	0.12
Maximum =	2.92%	18.82%	0.21%	25,543	30.04	2.05	23.96	96.55%	12.00	0.22	0.22	6.26%	0.21%	72,382	21,499	76.76%	15.02	5.61	5.19	8.00	2.81	0.49

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

December 2012 Solids Operations Report

2 PM - 10 PM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd Sludge	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Sat 1																										
Sun 2																										
Mon 3	4	2.80%	19.23%	0.15%						0	0	7,474	8,200	1	1	0	24,740	6,300	1	0	0.00	0.50	4.00	4.00	4.00	4.00
Tue 4	4	2.47%	18.35%	0.15%						0	0	5,381	8,400	1	1	13,400	18,503	8,099	1	0	0.00	4.00	4.00	4.00	4.00	4.00
Wed 5																										
Thu 6																										
Fri 7	2									0	0	4,031	4,301	0	0	9,200	18,339	6,400	0	0	0.00	0.00	0.00	0.00	2.00	2.00
Sat 8																										
Sun 9																										
Mon 10	4					0.99%	16.55%	0.17%		0	0	9,453	9,699	2	2	14,901	21,399	9,900	1	0	0.00	0.00	4.00	4.00	1.00	1.00
Tue 11	4					1.90%	18.03%	0.15%	4.72%	0	0	9,343	16,200	1	2	20,999	34,718	16,800	1	0	0.00	4.00	4.00	4.00	4.00	4.00
Wed 12	4					2.12%	17.42%	0.14%	4.78%	0	0	7,380	8,200	1	1	22,300	30,690	18,199	1	1	0.00	0.00	4.00	4.00	2.00	2.00
Thu 13	4					2.30%	17.98%	0.15%		0	0	8,434	8,600	1	1	30,800	41,582	18,900	1	1	0.00	0.00	4.00	4.00	4.00	4.00
Fri 14																										
Sat 15																										
Sun 16																										
Mon 17																										
Tue 18																										
Wed 19																										
Thu 20	3									0	0	3,518	3,599													
Fri 21																										
Sat 22																										
Sun 23																										
Mon 24																										
Tue 25																										
Wed 26	2									0	0	0	0	0	0	0	0	0	0	0	2.00	2.00	2.00	2.00	1.00	1.00
Thu 27	2									0	0	6,516	6,600	0	0	0	0	0	0	0	2.00	2.00	2.00	2.00	1.00	1.00
Fri 28	2									0	0	4,368	5,000	0	0	32,400	35,370	21,499	0	0	0.00	0.00	2.00	2.00	1.00	1.00
Sat 29																										
Sun 30																										
Mon 31																										
	35	2.64%	18.79%	0.15%		1.83%	17.50%	0.15%	4.75%	0	0	65,898	78,799	7	8	144,000	225,341	106,097	6	2	4.00	12.50	30.00	30.00	24.00	24.00
	Min:	2.47%	18.35%	0.15%	0.00%	0.99%	16.55%	0.14%	4.72%																	
	Max:	2.80%	19.23%	0.15%	0.00%	2.30%	18.03%	0.17%	4.78%	0	0	9,453	16,200	2	2	32,400	41,582	21,499	1	1	2.00	4.00	4.00	4.00	4.00	4.00

Numbers in Red Font are Lab Data

December 2012 Sludge Inventory Report

Date	Pumped from PSTs to Pri. Dig. (gal)	Pumped from PSTs to Mix Tank (gal)	Pumped from PSTs Total (gal)	Thickened Sludge to Pri. Dig. (gal)	Secondary Sludge to Mix Tank (gal)	Dig 1 (in.)	Dig 2 (in.)	Dig 3 (in.)	Mix Tank (in.)	Dig 4 (in.)	Dig 5 (in.)	Pri.Dig.Sldg. Inventory (gal)	Sec.Dig.Sldg. Inventory (gal)	Transfer (calculated) (gal)	Supernated (gal)	Pressed (gal)	Mix Tank Overflow Potential Calculated (gal)
									108			479,200	93,500				
Sat 1	0	101,890	101,890	47,300	111,000	20	39	17	108	19	26	468,200	123,750	58,300	0	19,973	0
Sun 2	0	103,716	103,716	47,800	266,000	42	18	18	0	28	26	214,500	148,500	301,500	0	33,272	0
Mon 3	0	107,174	107,174	70,899	181,000	21	18	37	107	26	25	465,800	140,250	0	0	74,425	0
Tue 4	0	105,858	105,858	45,400	136,000	40	18	19	0	21	23	211,750	121,000	299,450	0	80,082	0
Wed 5	11,580	64,348	75,928	41,901	110,000	17	35	25	0	18	23	211,750	112,750	53,481	0	56,578	0
Thu 6	0	99,460	99,460	0	250,000	28	16	24	0	22	27	187,000	134,750	24,750	0	0	0
Fri 7	0	98,016	98,016	56,001	178,000	42	16	18	115	24	19	485,000	118,250	0	0	74,881	0
Sat 8	0	104,944	104,944	30,100	124,000	21	16	33	102	24	22	437,300	126,500	77,800	0	31,661	0
Sun 9	0	106,079	106,079	49,600	170,000	18	35	17	0	29	21	192,500	137,500	294,400	0	36,813	0
Mon 10	0	117,711	117,711	76,300	125,000	21	18	38	0	19	27	211,750	126,500	57,050	0	69,698	0
Tue 11	0	110,849	110,849	55,100	124,000	39	21	21	0	19	17	222,750	99,000	44,100	0	79,269	0
Wed 12	0	111,787	111,787	55,399	120,000	14	40	22	0	17	12	209,000	79,750	69,149	0	70,577	0
Thu 13	0	104,404	104,404	65,001	154,000	23	19	36	0	14	14	214,500	77,000	59,501	0	57,474	0
Fri 14	0	109,734	109,734	42,199	23,000	45	27	18	0	13	8	247,500	57,750	9,199	0	53,685	0
Sat 15	0	108,936	108,936	90,501	184,000	24	29	36	123	23	16	539,950	107,250	0	0	35,655	0
Sun 16	0	121,109	121,109	56,800	202,000	36	18	18	0	30	27	198,000	156,750	398,750	0	35,595	0
Mon 17	0	147,238	147,238	92,000	201,000	22	33	28	110	24	26	492,250	137,500	0	0	66,319	0
Tue 18	0	94,674	94,674	59,199	82,000	31	19	20	86	21	33	398,900	148,500	152,549	0	90,457	0
Wed 19	0	86,179	86,179	32,199	203,000	16	21	37	89	26	20	417,100	126,500	13,999	0	39,147	0
Thu 20	0	108,440	108,440	43,200	243,000	24	37	20	101	18	28	465,150	126,500	0	0	48,259	0
Fri 21	0	103,739	103,739	44,800	263,000	42	19	29	107	26	23	504,300	134,750	5,650	0	53,325	0
Sat 22	0	106,501	106,501	53,300	120,000	23	28	38	0	27	20	244,750	129,250	312,850	0	54,536	0
Sun 23	0	110,424	110,424	68,200	186,000	48	21	19	0	21	45	242,000	181,500	70,950	0	37,556	0
Mon 24	16,541	98,940	115,481	82,800	0	19	30	39	116	23	35	520,400	159,500	0	0	79,836	0
Tue 25	19,454	62,112	81,566	0	92,000	18	33	23	0	38	34	203,500	198,000	336,354	0	0	0
Wed 26	27,566	61,233	88,799	61,400	213,000	42	18	25	102	40	32	478,550	198,000	0	0	78,395	0
Thu 27	0	110,373	110,373	61,200	202,000	26	24	38	99	22	34	479,600	154,000	60,150	0	94,387	0
Fri 28	0	112,705	112,705	86,798	254,000	36	36	21	102	30	26	500,550	154,000	65,848	0	58,600	0
Sat 29	0	114,980	114,980	43,601	83,000	45	18	28	0	35	22	250,250	156,750	293,901	0	47,274	0
Sun 30	0	112,368	112,368	59,499	237,000	21	30	21	0	37	40	198,000	211,750	111,749	0	32,533	0
Mon 31	0	101,930	101,930	0	110,000	47	17	30	0	31	35	258,500	181,500	0	0	27,635	0
	75,141	3,207,851	3,282,992	1,618,497	4,947,000									3,171,430	0	1,617,897	0
Ave:	2,424	103,479	105,903	52,210	159,581							334,550	137,589	102,304	0	52,190	0
Min:	0	61,233	75,928	0	0							187,000	57,750	0	0	0	0
Max:	27,566	147,238	147,238	92,000	266,000							539,950	211,750	398,750	0	94,387	0

Transfer = (change in Primary Sludge Inventory) + (sludge pumped from PSTs to Pri. Dig.) + (Thickened Sludge pumped to Pri. Dig.)

Mix Tank Overflow Potential = (change in Mix Tank level) + gallons from PSTs + secondary sludge (350 gpm) - GBT feed

December 2012 Soluble Sulfides Report

	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	Sludge Processed BFPs	GBTs
1-Dec							19,973	181,685
2-Dec							33,272	213,145
3-Dec							74,425	445,349
4-Dec							80,082	278,056
5-Dec							56,578	215,137
6-Dec							0	0
7-Dec							74,881	340,174
8-Dec							31,661	147,878
9-Dec							36,813	208,799
10-Dec							69,698	345,872
11-Dec							79,269	258,158
12-Dec							70,577	239,887
13-Dec							57,474	273,351
14-Dec							53,685	200,920
15-Dec							35,655	248,338
16-Dec							35,595	198,902
17-Dec							66,319	366,442
18-Dec							90,457	366,434
19-Dec							39,147	209,195
20-Dec							48,259	284,947
21-Dec							53,325	278,387
22-Dec							54,536	226,088
23-Dec							37,556	243,048
24-Dec							79,836	361,925
25-Dec							0	0
26-Dec							78,395	319,520
27-Dec							94,387	326,442
28-Dec							58,600	416,071
29-Dec							47,274	224,411
30-Dec							32,533	215,709
31-Dec							27,635	280,469
Ave:	N/A	N/A	N/A	N/A	N/A	N/A		
Min:	0.000	0.000	0.000	0.000	0.000	0.000		
Max:	0.000	0.000	0.000	0.000	0.000	0.000		

December 2012 Disposal Site Report

Date	Sludge Conestoga (Tons)	Sludge Rolling Hills (Tons)	Sludge Modern (Tons)	Sludge Pioneer Crossing (Tons)	6th St. (Tons)	Grit (Tons)	Tank Cleanings (Tons)	Scum (Tons)	San Swr Soil (Tons)	Exeter Sludge (Gallons)	Exeter % Solids	Valley Forge Sludge (Gallons)	Valley Forge % Solids	Total Cans Hauled Biosolids
Sat 1														
Sun 2														
Mon 3				89.93										5
Tue 4				18.51										1
Wed 5				34.26										2
Thu 6				16.99	5.35									1
Fri 7				36.97										2
Sat 8														
Sun 9														
Mon 10				73.09										3
Tue 11				18.17										1
Wed 12				35.19										2
Thu 13				29.71										2
Fri 14				31.39										2
Sat 15														
Sun 16														
Mon 17				71.38										4
Tue 18				35.28										2
Wed 19				37.52										2
Thu 20				36.19										2
Fri 21				16.72										1
Sat 22				35.15										2
Sun 23														
Mon 24				70.83										4
Tue 25														
Wed 26				17.15										1
Thu 27				51.61										3
Fri 28				50.83	5.79	6.08								4
Sat 29				36.07										2
Sun 30														
Mon 31				54.33										3
Total:	0.00	0.00	0.00	897.27	11.14	6.08	0.00	0.00	0.00	0		0		51
Ave:	0.00	0.00	0.00	40.79	5.57	6.08	0.00	0.00	0.00	0		0		
Min:	0.00	0.00	0.00	16.72	5.35	6.08	0.00	0.00	0.00	0		0		
Max:	0.00	0.00	0.00	89.93	5.79	6.08	0.00	0.00	0.00	0		0		

December 2012 Supernating Data

	Digester#4	Gallons Supernated	%Solids	lbs supernated	Digester#5	Gallons Supernated	%Solids	lbs supernated	Total Gallons Supernated	Total lbs Supernated
Sat 1									0	0
Sun 2									0	0
Mon 3									0	0
Tue 4									0	0
Wed 5									0	0
Thu 6									0	0
Fri 7									0	0
Sat 8									0	0
Sun 9									0	0
Mon 10									0	0
Tue 11									0	0
Wed 12									0	0
Thu 13									0	0
Fri 14									0	0
Sat 15									0	0
Sun 16									0	0
Mon 17									0	0
Tue 18									0	0
Wed 19									0	0
Thu 20									0	0
Fri 21									0	0
Sat 22									0	0
Sun 23									0	0
Mon 24									0	0
Tue 25									0	0
Wed 26									0	0
Thu 27									0	0
Fri 28									0	0
Sat 29									0	0
Sun 30									0	0
Mon 31									0	0
TOTAL		0		0		0		0	0	0
AVG.										

December 2012 Laboratory Results

	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	% Solids GBT	% Solids GBT Filtrate	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	P1-4 %TS	P1-4 %VS	Dig 4 %TS	Dig 4 %VS	Dig 5 %TS	Dig 5 %VS
1-Dec			0.08%	4.24%													
2-Dec	2.47%	19.90%	0.09%	5.39%													
3-Dec	2.92%	17.62%	0.12%	5.51%										3.27%		2.97%	
4-Dec	2.03%	18.82%	0.14%	4.32%													
5-Dec	1.60%	17.06%	0.06%	5.77%								2.90%	84.85%	1.65%	69.84%	1.74%	68.66%
6-Dec	1.88%	17.97%	0.12%	5.99%													
7-Dec	1.73%	17.21%	0.15%	5.20%										2.44%		1.97%	
8-Dec	1.92%	16.62%	0.10%	4.98%													
9-Dec	2.53%	17.36%	0.13%	4.61%													
10-Dec	1.57%	16.62%	0.13%	5.78%										0.49%		1.63%	
11-Dec	1.92%	17.92%	0.21%	5.30%													
12-Dec	1.88%	17.48%	0.12%	5.68%								2.63%	84.54%	2.40%	67.10%	1.17%	59.58%
13-Dec	1.74%	17.94%	0.14%	4.89%													
14-Dec	2.03%	17.90%	0.12%	5.40%										2.15%			
15-Dec	2.39%	18.46%	0.10%	4.79%													
16-Dec	1.96%	17.50%	0.13%	5.39%													
17-Dec	2.85%	18.21%	0.14%	5.14%										2.77%		2.82%	
18-Dec	2.22%	15.32%	0.14%	5.51%													
19-Dec	2.70%	18.24%	0.13%	6.43%								2.85%	84.38%	2.82%	68.12%	2.73%	66.00%
20-Dec	2.85%	17.04%	0.12%	5.81%													
21-Dec	1.93%	18.15%	0.10%	6.11%										2.92%		3.90%	
22-Dec	2.49%	16.93%	0.11%	4.83%													
23-Dec	2.92%	17.80%	0.14%	5.60%													
24-Dec	2.02%	18.15%	0.15%	4.31%										1.84%		1.94%	
25-Dec																	
26-Dec	2.64%	18.00%	0.08%	5.94%								2.42%	86.00%	3.31%	63.86%	3.24%	65.56%
27-Dec	2.87%	16.70%	0.14%	6.55%													
28-Dec	1.57%	16.73%	0.16%	6.26%										5.32%		3.56%	
29-Dec	2.38%	18.32%	0.13%	6.17%													
30-Dec	2.78%	18.35%	0.14%	5.44%													
31-Dec	2.92%	18.55%	0.13%	5.77%										2.70%		2.96%	
Avg	2.27%	17.69%	0.13%	5.44%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.70%	84.94%	2.62%	67.23%	2.55%	64.95%
Min	1.57%	15.32%	0.06%	4.24%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	2.90%	86.00%	5.32%	69.84%	3.90%	68.66%
Max	2.92%	19.90%	0.21%	6.55%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	2.42%	84.38%	0.49%	63.86%	1.17%	59.58%

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

RECEIVED
EPA REGION III
NOV 26 2012
WATER PROTECTION DIVISION
(3WP00)

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	10/01/2012	TO	10/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	71	******		0	DAILY	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	5.1	******	******		0	7/DAILY	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.2	******	7.8		0	DAILY	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1287	1785		******	9	10		0	DAILY	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	491	******		******	3.1	******		0	DAILY	COMP24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	16.24	41.29		******	******	******	******	0	CONTIN UOUS	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.06	******		0	2/SHIFT	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	(610)655-6258 AREA Code / NUMBER		11/20/2012 MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ON OCTOBER 29/30, A DO READING WAS TAKEN IN SIDE B BEFORE ALL CHANNELS COME TOGETHER AND FLOW OVER THE WEIR TO THE DISCHARGE OUTFALL WITH A RESULT OF 4.81 MG/L. ALTHOUGH THIS IS NOT AN OFFICAL SAMPLING LOCATION AND WAS NOTED AS SUCH, PA DEP WAS NOTIFIED AND WE WERE INSTRUCTED TO NOTE THE DO.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	10/01/2012	TO	10/31/2012

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01459	******		******	<0.00010	******		0	WEEKLY	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	6	******		0	DAILY	GRAB
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1125	1939		******	8	9		0	DAILY	COMP24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	(610) 655-6258	11/20/2012
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code / NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SAME AS PAGE 1 COMMENTS.

	October 2012					City of Reading Wastewater Treatment Plant								
	Final Effluent								preSO2	COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC	FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L	#/100ml	Pt-Co	inches	(°F)	(°F)
30-Sep		13	10	9		12.66								
1-Oct	19.3	17	13	8	1.8	12.61	6.9	7.5	0.85	10	75	0.00	45	74
2-Oct	17.8	17	14	19	10.0	24.12	5.1	7.6	0.73	2	75	1.91	60	65
3-Oct	20.7	6	3	6	1.0	17.16	6.5	7.3		4	50	0.22	65	75
4-Oct	21.0	6	4	7	2.2	14.63	6.9	7.5	0.48	42	65.0	0.02	59	78
5-Oct	20.6	8	5	9	3.8	14.09	6.5	7.5	0.53	15	65	0.00	54	82
6-Oct	20.9	12	7	9	0.9	13.20	6.7	7.8	0.92	11	75	0.00	48	71
7-Oct	21.2	10	6	9	1.9	13.72	7.1	7.4	0.82	2	65	0.11	43	57
8-Oct	20.2	10	6	8	3.9	14.69	6.9	7.5	0.61	1	65	0.00	40	54
9-Oct	18.8	12	9	8	2.7	12.49	7.0	7.4	0.63	1	85	0.01	48	60
10-Oct	20.0	23	10	10	3.6	13.57	6.8	7.4	0.60	1	100	0.07	50	68
11-Oct	19.8	13	8	10	2.6	13.11	6.9	7.5	0.56	5	85	0.00	41	62
12-Oct	17.0	12	6	9	3.6	12.16	6.6	7.4	0.49	2	75	0.00	37	61
13-Oct	19.1	12	7	8	1.5	12.13	6.8	7.5	0.84	1	85	0.00	29	61
14-Oct	20.4	12	6	11	1.2	13.36	7.0	7.8	0.79	1	75	0.00	43	73
15-Oct	20.5	15	8	9	5.3	15.99	6.6	7.4	0.54	13	75	0.44	57	71
16-Oct	19.2	17	10	10	3.6	11.91	6.7	7.4	0.60	1	85	0.00	42	63
17-Oct	18.7	14	6	10	3.3	12.81	6.8	7.4	0.49	12	75	0.00	38	68
18-Oct	18.3	17	10	7	4.6	19.14	6.7	7.4	0.50	28	75	0.00	47	73
19-Oct	20.0	16	10	10	7.6	20.70	6.0	7.5	1.03	4	50	2.15	61	76
20-Oct	19.9	11	6	8	0.7	17.02	7.0	7.2	0.49	51	50	0.01	46	65
21-Oct	18.2	12	8	6	0.7	15.06	7.3	7.4	0.70	9	60	0.00	44	68
22-Oct	18.8	11	4	6	1.8	14.69	7.1	7.5	0.49	56	60	0.00	41	71
23-Oct	19.0	13	6	9	2.4	14.07	6.9	7.5	0.51	72	65	0.01	46	72
24-Oct	19.4	16	6	13	3.6	14.10	6.6	7.3	0.35	21	65	0.00	53	83
25-Oct	21.6	18	5	7	2.1	13.50	6.6	7.4	0.51	11	65	0.00	60	65
26-Oct	20.0	14	6	11	1.6	13.32	6.8	7.4	0.43	14	85	0.00	61	68
27-Oct	20.4	8	5	12	1.4	13.07	6.8	7.4	0.84	1	75	0.00	57	68
28-Oct	20.1	19	10	16	2.5	15.60	6.8	7.5	0.97	1	85	0.46	55	62
29-Oct	19.0	28	17	13	8.7	41.29	5.2	7.5	0.66	71	75	3.14	53	63
30-Oct	18.0	12	8	5	2.8	27.70	5.5	7.3		3	50	0.58	43	55
31-Oct	16.9	14	8	6	3.4	22.48	7.4	7.3	1.22	2	60	0.00	43	50
1-Nov		12	6	7		19.20								
2-Nov		14	8	10		17.29								
3-Nov		13	7	8		16.35								
<						See DO profile								
TOTAL		425	237	289	96.8	503.5		230.8	22.82		2195	9.13		
Week 1	20.2	11	8	10	3.3	15.50	6.53	7.50	0.83	12	67	0.32	53	72
Week 2	19.3	13	7	9	2.8	13.12	6.85	7.48	0.65	2	81	0.01	41	63
Week 3	19.3	15	8	9	3.7	15.85	6.74	7.40	0.62	17	67	0.37	48	69
Week 4	19.9	13	6	9	2.0	13.97	6.79	7.43	0.59	25	71	0.07	53	70
Week 5		16	9	9	4.3	22.84								
Monthly	19.5	14	8	9	3.1	16.24	6.66	7.44		6	71	0.29	49	67
Weekly averages: 9/30-10/6, 10/7-13, 10/14-20, 10/21-10/27, and 10/28-11/3.														
Min =	16.9	6	3	5	0.7	11.91	5.1	7.2	0.35	1	50	0.00	29	50
Max =	21.6	28	17	19	10.0	41.29	7.4	7.8	2.18	72	100	3.14	65	83
DISCHARGE LIMITATIONS														
Ave Monthly:			20	30	6		Min.	6.0		10,000	186			
Ave Weekly:			30	45			of	to						
Inst. Max:			40	60	12		5.0	9.0			465			

Print Date: 11/20/2012

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
30-Sep						0	1,373	1,056						950								
1-Oct	5,950	45,261	51,211	-851		50,360	1,788	1,367	6,752	66,886	73,638	-31,042	42,596	841	514	734	2,095	2830	549	9,592	3,378	194
2-Oct	5,497	38,448	43,945	2,724		46,669	3,420	2,816	9,810	45,121	54,931	13,866	68,797	3,822	454	668	1,700	2,368	1,635	8,032	4,003	2,012
3-Oct	3,828	33,592	37,420	5,438	294	42,858	859	429	5,768	29,291	35,058	5,625	40,684	859	332	421	1,362	1,783	763	3,961	2,546	138
4-Oct	4,180	40,075	44,255	-8,501		35,754	732	488	5,316	66,271	71,587	-33,688	37,899	854		600	1,847	2,448	1,104	3,222	3,552	267
5-Oct	2,422	29,916	32,338	-2,412		29,926	940	588	4,682	27,197	31,879	8,023	39,902	1,058	253	509	1,505	2,013	381	3,236	2,394	449
6-Oct	5,589	39,864	45,454	4,249		49,703	1,321	771	6,866	38,338	45,204	13,382	58,586	991	491	465	1,391	1,856	534	4,115	2,390	104
7-Oct	5,763	38,846	44,609	12,937	290	57,546	1,144	687	11,753	34,407	46,159	6,093	52,252	1,030	725	669	1,952	2,621	786	4,562	3,407	220
8-Oct	6,422	43,549	49,971	13,834		63,805	1,225	735	8,360	34,839	43,199	-44	43,155	980	525	656	1,881	2,537	943	5,539	3,480	481
9-Oct	6,633	48,964	55,597	-15,979		39,619	1,250	937	7,622	33,330	40,952	-23,699	17,253	833	474	618	1,813	2,431	1,191	5,461	3,621	279
10-Oct	6,677	50,962	57,639	-4,351		53,288	2,603	1,132	7,280	32,986	40,266	-1,806	38,460	1,132	502	575	1,705	2,280	1,230	6,577	3,510	406
11-Oct	5,401	44,953	50,354	3,579	490	53,933	1,421	875	7,829	31,891	39,721	-7,149	32,571	1,093	1,038	515	1,705	2,220	2,317	5,334	4,537	288
12-Oct	6,015	44,322	50,337	463		50,801	1,217	608	8,528	42,106	50,634	-9,782	40,852	913	243	608	1,824	2,432	256	3,266	2,688	365
13-Oct	6,078	39,844	45,922	1,649		47,571	1,214	708	7,426	43,097	50,523	1,185	51,708	809	167	581	1,626	2,208	326	3,058	2,534	155
14-Oct	5,248	41,040	46,288	8,538	377	54,826	1,337	669	6,176	31,610	37,786	-3,815	33,971	1,226	353	519	1,773	2,291	1,009	4,840	3,300	137
15-Oct	6,399	48,140	54,539	142		54,681	2,000	1,067	7,213	36,154	43,367	2,322	45,689	1,200	713	596	1,690	2,285	995	6,584	3,281	701
16-Oct	7,734	49,726	57,461	185	483	57,646	1,689	993	4,750	47,669	52,419	-10,358	42,060	993	483	614	1,809	2,423	865	6,489	3,288	354
17-Oct	5,787	41,771	47,558	-8,963		38,595	1,496	641	6,687	33,417	40,104	-21,659	18,445	1,068	891	615	1,821	2,436	592	9,866	3,027	350
18-Oct	7,189	60,208	67,397	-3,191	970	64,206	2,714	1,596	8,616	50,926	59,542	2,524	62,066	1,117	674	634	2,082	2,716	1,136	11,554	3,852	726
19-Oct	9,317	51,128	60,445	-8,308		52,137	2,762	1,726	6,212	27,409	33,620	14,028	47,648	1,726	227	564	1,410	1,974	391	3,786	2,365	1,316
20-Oct	8,816	46,410	55,227	-26,992		28,235	1,561	852	7,963	32,981	40,944	-17,288	23,656	1,136	266	617	1,619	2,237	625	5,525	2,862	97
21-Oct	6,776	45,870	52,646	-14,022	961	38,625	1,507	1,005	6,505	69,722	76,228	-52,934	23,294	754	458	648	1,743	2,391	319	5,477	2,710	93
22-Oct	5,254	46,707	51,961	-3,973		47,988	1,348	490	8,504	31,258	39,762	2,057	41,818	735	565	601	1,734	2,335	773	6,868	3,108	219
23-Oct	4,685	38,678	43,363	-10,142		33,221	1,525	704	6,896	31,997	38,892	-21,512	17,381	1,056	416	557	1,811	2,368	833	6,594	3,201	282
24-Oct	5,156	41,908	47,064	-8,668		38,396	1,882	706	6,562	51,799	58,361	-15,674	42,686	1,529	483	593	1,836	2,429	1,175	8,410	3,604	427
25-Oct	5,510	53,052	58,562	-4,394	691	54,168	2,027	563	6,922	70,337	77,259	-38,041	39,218	788	439	581	1,728	2,309	594	5,867	2,903	231
26-Oct	2,102	33,339	35,441	-7,811		27,630	1,555	667	2,144	33,339	35,483	-12,151	23,332	1,222	212	528	1,586	2,113	159	2,149	2,272	180
27-Oct	2,218	27,219	29,438	916		30,353	872	545	2,573	40,087	42,660	15,535	58,195	1,308	260	577	1,650	2,226	160	5,972	2,386	156
28-Oct	7,714	39,528	47,242	14,640	371	61,883	2,472	1,301	11,434	28,152	39,586	19,079	58,665	2,082	316	643	1,784	2,426	593	5,696	3,020	320
29-Oct	8,687	49,709	58,396	13,919		72,315	9,642	5,854	9,762	45,523	55,285	39,758	95,043	4,477	1,168	827	1,962	2,790	1,618	10,122	4,408	2,999
30-Oct	5,154	32,306	37,460	4,123		41,583	2,772	1,848	1,907	79,329	81,236	-52,590	28,646	1,155		593	1,278	1,871	1,271	5,725	3,142	654
31-Oct	7,210	41,007	48,217	-2,760		45,457	2,625	1,500	5,768	30,055	35,823	8,808	44,631	1,125		520	1,263	1,783	845	8,583	2,628	630
1-Nov							1,922	961						1,121								
2-Nov							2,019	1,154						1,442								
3-Nov							1,773	955						1,091								
TOTAL	181,412	1,326,347	1,507,759	-43,978	4,926	1,463,781	60,920	34,867	214,586	1,297,522	1,512,108	-200,947	1,311,160	39,912	13,641	18,444	52,983	71,427	25,970	186,062	97,397	15,229
Week 1	4,747	38,001	42,748	1,941	292	44,688	1,490	1,074	7,278	43,930	51,208	-2,534	48,674	1,339	461	581	1,693	2,274	822	5,246	3,096	483
Week 2	6,068	44,805	50,873	1,105	434	51,978	1,439	812	7,603	35,694	43,297	-6,444	36,853	970	472	582	1,761	2,343	1,039	4,868	3,381	302
Week 3	7,431	49,036	56,468	-8,735	805	47,732	1,937	1,078	6,849	42,611	49,461	-11,909	37,551	1,210	530	612	1,739	2,352	703	7,040	3,055	520
Week 4	4,663	40,062	44,725	-2,776	531	41,949	1,531	668	6,433	40,996	47,429	-7,244	40,185	1,056	385	583	1,732	2,315	613	5,936	2,928	259
							3,318	1,939						1,785								
Monthly	5,852	42,785	48,637	-1,419	547	47,219	1,965	1,125	6,922	41,856	48,778	-6,482	42,295	1,287	487	595	1,709	2,304	838	6,002	3,142	491
Min =	2102	27219	29438	-26992	290	27,630	732	429	1,907	27,197	31,879	-52,934	17,253	735	167	421	1,263	1,783	159	2,149	2,272	93
Max =	9317	60208	67397	14640	970	72,315	9,642	5,854	11,753	79,329	81,236	39,758	95,043	4,477	1,168	827	2,095	2,830	2,317	11,554	4,537	2,999
								3,336						7,130								1,000
								5,004						10,696								

Print Date: 11/20/2012

	GC Mercury (Hg)				6th St Mercury (Hg)				Inf. Mercury (Hg)				Eff. Mercury (Hg)			
DATE		mg/L		lbs/day		mg/L		lbs/day		mg/L		lbs/day		mg/L		lbs/day
30-Sep																
1-Oct																
2-Oct		0.00040		0.01691	<	0.00010	<	0.01589	<	0.00010	<	0.02012	<	0.00010	<	0.02012
3-Oct																
4-Oct	<	0.00010	<	0.00214	<	0.00010	<	0.00977	<	0.00010	<	0.01192	<	0.00010	<	0.01220
5-Oct																
6-Oct																
7-Oct																
8-Oct																
9-Oct		0.00020		0.00412	<	0.00010	<	0.00859	<	0.00010	<	0.01065	<	0.00010	<	0.01042
10-Oct																
11-Oct																
12-Oct																
13-Oct																
14-Oct																
15-Oct																
16-Oct		0.00010		0.00210	<	0.00010	<	0.00857	<	0.00010	<	0.01068	<	0.00010	<	0.00993
17-Oct																
18-Oct																
19-Oct																
20-Oct																
21-Oct																
22-Oct																
23-Oct																
24-Oct		0.00030		0.00703	<	0.00010	<	0.00838		0.00010		0.01073	<	0.00010	<	0.01176
25-Oct																
26-Oct																
27-Oct																
28-Oct																
29-Oct																
30-Oct	<	0.00010	<	0.00515	<	0.00010	<	0.01795	<	0.00010	<	0.02310	<	0.00010	<	0.02310
31-Oct																
1-Nov																
2-Nov																
3-Nov																
Total		0.00120		0.03746		0.00060		0.06916		0.00060		0.08719		0.00060		0.08753
Week 1	<	0.00025	<	0.00953	<	0.00010	<	0.01283	<	0.00010	<	0.01602	<	0.00010	<	0.01616
Week 2		0.00020		0.00412	<	0.00010	<	0.00859	<	0.00010	<	0.01065	<	0.00010	<	0.01042
Week 3		0.00010		0.00210	<	0.00010	<	0.00857	<	0.00010	<	0.01068	<	0.00010	<	0.00993
Week 4		0.00030		0.00703	<	0.00010	<	0.00838		0.00010		0.01073	<	0.00010	<	0.01176
Week 5	<	0.00010	<	0.00515	<	0.00010	<	0.01795	<	0.00010	<	0.02310	<	0.00010	<	0.02310
Monthly	<	0.00020	<	0.00624	<	0.00010	<	0.01153	<	0.00010	<	0.01453	<	0.00010	<	0.01459
Min =	<	0.00010	<	0.00210		0.00010		0.00838		0.00010		0.01065	<	0.00010	<	0.00993
Max =		0.00040		0.01691		0.00010		0.01795		0.00010		0.02310	<	0.00010	<	0.02310
														0.00023		0.055
														0.00046		

	October 2012				City of Reading Wastewater Treatment Plant																	Laboratory Process Control Data							
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent							
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
30-Sep																																		
1-Oct	282	320	7.1	34.8	540	798	6.8	25.0	488	702	27.0	-8	-296	5.2	480	406	32.2	6.7	9.6	17.8	12.58	318	92	34.3	0.1	6.3	42	35	21.4	310	3.0	7.2	31	16
2-Oct	130	232	7.5	15.8	242	284	6.8	10.7	218	273	11.8	14	69	8.1	232	342	19.9	7.0	8.1	23.7	24.12	135	57	21.3	0.4	6.5	36	37	14.5		1.2	7.2	27	30
3-Oct	150	226	7.4	16.5	328	286	6.9	13.3	292	274	13.9	43	44	6.0	335	318	19.9	7.0	10.1	23.1	15.34	210	103	21.6	0.2	6.6	17	31	12.7	220	3.1	6.9	ns	ns
4-Oct	195	248	7.4	28.0	410	678	6.8	18.9	371	601	20.5	-71	-283	9.3	300	318	29.8	6.7	6.4	23.6	14.29	240	73	30.4	6.5	6.5	21	31	16.9		7.1	7.1	15	14
5-Oct	120	232	7.3	25.2	330	300	6.9	16.6	292	288	18.2	-22	72	3.4	270	360	21.6	6.7	6.1	21.5	13.29	260	109	21.7	0.1	6.7	14	31	18.5	280	2.6	7.2	16	18
6-Oct	267	328	7.5	22.2	470	452	7.1	16.4	430	427	17.5	40	127	5.1	470	554	22.6	6.8	0.2	23.6	12.68	285	91	24.6	0.7	6.2	15	22	17.0		5.8	7.0	24	20
7-Oct	255	520	7.6	29.6	420	372	7.1	21.1	388	401	22.8	112	53	6.8	500	454	29.6	7.0	7.5	22.2	13.80	252	69	28.4	0.3	6.5	ns	ns	ns		0.3	7.2	22	20
8-Oct	275	358	7.5	28.1	470	376	7.0	20.3	431	372	21.9	119	0	8.1	550	372	30.0	6.9	7.1	21.8	13.91	330	266	30.3	0.2	6.5	26	30	20.3	140	3.5	7.7	24	21
9-Oct	322	370	7.2	30.0	570	388	6.6	21.1	522	385	22.8	-150	-223	11.2	372	162	34.0	6.9	10.7	22.8	12.77	288	71	30.6	0.1	6.4	38	33	2.4		3.7	7.3	26	16
10-Oct	288	314	7.3	24.8	550	356	6.7	18.4	498	348	19.7	-38	-16	10.6	460	332	30.3	6.9	8.2	22.5	13.89	320	94	27.6	0.1	6.4	34	34	19.9	260	3.3	7.1	30	20
11-Oct	258	374	7.5	24.6	530	376	7.0	20.1	476	376	21.0	34	-68	21.9	510	308	42.9	7.2	8.8	22.7	12.68	277	103	28.8	0.1	6.7	44	69	22.0		1.0	7.5	23	22
12-Oct	292	414	7.4	29.5	520	494	6.7	21.4	476	478	23.0	4	-92	2.4	480	386	25.4	7.0	8.9	23.4	12.69	278	83	27.5	0.2	6.6	40	45	20.6	300	3.6	7.3	ns	ns
13-Oct	275	336	7.6	26.3	490	530	7.0	20.0	444	489	21.3	16	11	3.2	460	500	24.5	6.9	8.8	17.9	12.40	305	75	24.0	0.9	6.5	41	34	17.3		2.6	7.4	ns	ns
14-Oct	260	306	7.6	25.7	470	362	7.3	20.3	431	351	21.3	79	-35	9.4	510	316	30.7	7.0	7.6	22.4	12.89	278	80	24.4	1.1	6.4	41	61	16.4		2.4	7.0	ns	ns
15-Oct	275	310	7.4	25.6	490	368	6.9	17.2	449	357	18.8	1	19	8.2	450	376	27.0	6.9	8.3	23.0	14.57	250	72	25.0	0.2	6.7	43	35	19.3	320	5.8	7.4	31	26
16-Oct	368	226	7.0	29.2	580	556	6.5	21.1	538	491	22.7	2	-97	8.1	540	394	30.8	6.7	10.1	22.8	12.80	318	69	30.6	0.2	6.3	46	51	21.1		1.6	6.7	32	22
17-Oct	270	312	7.5	28.7	530	424	6.7	23.1	474	400	24.3	-89	-216	5.9	385	184	30.2	6.7	9.3	21.8	12.02	285	65	30.7	0.3	6.4	26	18	21.0	280	3.5	7.1	14	13
18-Oct	262	314	7.5	23.1	480	406	6.8	16.6	441	389	17.8	-21	17	7.4	420	406	25.2	6.6	8.9	22.2	18.33	277	74	26.5	0.2	6.3	48	41	20.6		3.9	7.1	26	16
19-Oct	228	152	7.2	13.8	388	208	7.0	10.7	350	195	11.4	-48	81	2.3	302	276	13.7	7.1	14.7	20.9	20.70	135	45	13.2	0.9	6.6	27	25	12.1	260	2.0	7.1	16	13
20-Oct	310	280	8.9	21.7	470	334	7.3	16.4	434	322	17.6	-212	-136	4.9	222	186	22.5	6.9	9.1	21.8	15.25	190	50	19.4	0.1	6.5	13	5	12.4		5.6	6.9	12	4
21-Oct	250	240	7.2	23.9	500	760	6.8	19.0	443	641	20.1	-118	-445	2.7	325	196	22.8	6.6	7.6	21.0	14.25	280	72	21.3	0.3	6.4	49	53	14.2		4.5	6.9	38	31
22-Oct	215	348	7.4	24.6	520	348	6.7	19.3	455	348	20.4	-35	18	6.8	420	366	27.2	6.5	8.4	21.6	13.70	242	78	24.9	0.1	6.4	25	29	17.4	260	3.7	7.0	18	12
23-Oct	212	312	7.2	25.2	440	364	6.5	20.6	394	354	21.5	-92	-196	7.6	302	158	29.1	6.6	9.0	21.7	13.19	250	58	28.0	0.2	6.2	36	42	19.8		0.3	6.9	12	9
24-Oct	220	280	7.5	25.3	500	618	7.0	21.9	439	544	22.6	-81	-146	11.0	358	398	33.6	7.1	8.1	22.2	12.86	210	45	26.7	0.1	6.3	28	34	19.2	300	2.5	6.9	15	5
25-Oct	242	304	7.8	25.5	620	822	6.7	20.2	541	713	21.3	-41	-351	5.5	500	362	26.8	7.0	8.4	22.2	12.99	295	74	25.0	0.2	6.6	40	45	19.6		4.2	7.3	26	11
26-Oct	100	102	7.2	25.1	410	410	6.8	19.5	346	347	20.7	-76	-119	1.5	270	228	22.2	6.8	7.2	27.9	12.27	240	56	23.0	0.1	6.3	24	27	15.0	260	2.7	7.0	37	17
27-Oct	100	116	7.4	26.0	330	486	6.9	20.0	281	408	21.3	9	148	1.5	290	556	22.8	6.8	9.4	22.2	12.55	240	52	24.2	0.2	6.3	25	20	16.4		0.4	7.1	16	12
28-Oct	282	418	7.3	23.5	410	292	6.7	18.5	382	320	19.6	118	154	4.8	500	474	24.4	6.7	8.8	22.7	14.84	265	86	22.5	0.2	6.3	44	42	16.3		0.3	7.1	20	8
29-Oct	105	118	6.8	10.0	190	174	6.7	7.5	170	161	8.1	40	115	4.7	210	276	12.8	7.0	8.3	21.2	41.29	150	91	12.4	0.1	6.4	45	39	13.1	320	2.5	7.2	38	47
30-Oct	100	37	7.2	11.5	180	442	6.9	7.1	162	352	8.1	18	-228	5.5	180	124	13.6	6.3	11.9	18.8	27.70	120	79	9.7	8.1	6.7	32	33	7.7		5.7	6.1	18	16
31-Oct	190	152	7.4	13.7	322	236	6.9	9.9	292	217	10.8	-17	53	5.1	275	270	15.9	6.9	13.3	19.8	19.82	195	55	13.8	0.5	6.7	30	25	11.4	200	6.2	6.9	23	19
1-Nov																																		
2-Nov																																		
3-Nov																																		
TOTAL	7098	8599	229.6	737.5	13700	13300	212.4	552.2	12347	12322	589.8	-469	-1964	204.2	11878	10358	794.0	###	###	682.8	486.46	7718	2487	752.4	23.0	###	990	1057	496.5	3710.0		219.8	630	478
Week 1	200	301	7.4	24.6	391	453	6.9	17.4	354	424	18.8	15	-31	6.3	370	393	25.1	6.8	6.8	22.2	15.16	243	85	26.0	1.2	6.5	24	31	16.8	270.0	3.3	7.1	23	20
Week 2	281	353	7.4	27.0	514	412	6.9	20.2	468	400	21.6	9	-60	9.5	477	339	31.1	7.0	8.6	21.9	13.03	297	110	27.6	0.4	6.5	38	44	17.0	233.3	2.9	7.3	26	20
Week 3	280	262	7.5	23.7	491	437	6.9	17.7	447	399	19.0	-69	-111	5.6	378	288	24.6	6.8	9.7	21.9	15.42	248	64	23.8	0.3	6.5	36	33	17.2	286.7	3.8	7.0	24	18
Week 4	196	269	7.4	25.0	461	477	6.8	20.0	405	433	21.1	-28	-70	5.5	377	363	26.6	6.8	8.5	22.9	13.20	249	64	24.9	0.2	6.3	32	34	17.7	273.3	2.0	7.0	21	11
Monthly	229	277	7.4	23.8	442	429	6.9	17.8	398	397	19.0	-15	-63	6.6	383	334	25.6	6.8	8.7	22.0	15.69	249	80	24.3	0.7	6.5	33	35	16.6	265.0	3.2	7.1	23	18
Min =	100	37	6.8	10	180	174	6.5	7	162	161	8.1	-212	-445	1.5	180	124	12.8	6.3	0.2	17.8	12.02	120	45	9.7	0.1	6.2	13	5	2.4	140.0	0.3	6.1	12	4
Max =	368	520	8.9	35	620	822	7.3	25	541	713	27.0	119	154	21.9	550	556	42.9	7.2	14.7	27.9	41.29	330	266	34.3	8.1	6.7	49	69	22.0	320.0	7.1	7.7	38	47
									%Removal						%Removal																			
									96.56	97.65	83.58				96.42	97.21	87.80																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	Chloride	DO	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	DO	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
11.8	200	125	6.2	7.2	28	19	10	0.8	160	8.8	0.504	6.280	7.3		71	1325.0
17.4		120	4.1	7.1	ns	ns	ns	ns				5.460	7.2		76	1345.0
ns	180	ns	5.2	6.8	7	5	7	1.1	ns			6.330	7.3	46.0	52	620.0
12.0		120	4.8	6.9	12	7	7	2.7				7.340	7.3		ns	454.0
12.8	220	135	5.3	7.0	19	5	9	3.8	140			5.600	7.3		87	1115.0
7.5		125	6.2	6.9	ns	ns	ns	ns				6.700	7.1		96	805.0
11.2		125	7.4	7.2	ns	ns	ns	ns				7.020	7.2	62.0	155	975.0
13.1	220	115	5.1	7.2	26	13	20	4.8	300	6.1	0.978	6.580	7.5		83	875.0
12.7		125	6.3	7.1	18	10	6	21.0				7.300	7.2		75	865.0
14.0	240	140	4.3	7.0	30	15	11	3.8	180			6.850	7.1		71	930.0
11.5		145	5.7	7.5	20	11	8	2.9				6.930	7.5	84.0	178	915.0
ns	220	ns	5.5	7.3	20	10	9	3.9	180			6.180	7.2		71	955.0
ns		ns	5.8	7.4	19	10	5	1.4				5.680	7.2		52	955.0
ns		ns	5.7	7.2	18	10	12	0.9				5.580	7.2	62.0	58	795.0
14.6	200	125	4.7	7.1	27	12	10	5.0	160	7.7	1.145	7.800	7.6		117	1080.0
15.1		130	6.9	6.9	22	14	6	3.0				6.550	6.6	74.0	74	995.0
14.9	220	140	5.8	7.2	20	10	9	3.3	160			6.380	6.8		112	1240.0
14.8		145	5.0	6.9	26	14	11	4.7				6.240	6.9	118.0	82	1405.0
9.9	220	80	5.4	6.9	31	12	11	7.5	200			5.240	7.2		70	1170.0
7.7		100	5.7	7.6	ns	ns	ns	ns				6.840	7.1		50	1040.0
8.4		110	5.9	7.1	25	13	20	0.8				7.330	6.9	193.0	92	1100.0
10.8	200	150	6.4	6.9	14	8	12	0.8	160			7.600	7.3		86	1045.0
12.7		140	6.5	6.9	22	10	16	2.9		10.7	0.996	6.590	7.0		64	1015.0
12.6	200	155	4.7	7.0	24	11	11	4.2	140			6.180	7.0		73	1270.0
12.3		140	7.9	7.0	22	8	11	2.3				8.650	7.3	143.0	91	1215.0
10.4	220	135	3.7	6.8	18	9	8	1.2	140			6.340	7.1		113	1145.0
9.3		130	3.8	7.1	10	6	5	1.3				6.880	7.3		47	1080.0
10.5		120	5.2	7.0	24	15	12	3.1				6.340	7.3	82.0	70	1260.0
9.2	200	70	4.4	7.7	39	24	28	7.9	180	4.4	0.442	5.900	7.1		120	1040.0
5.3		70	6.7	6.5	24	10	19	2.9				6.480	6.5			790.0
7.0	180	90	9.1	7.0	18	10	8	3.3	140			8.520	6.8			1340.0
309.5	2920.0	3305.0	175.1	219.4	583	301	301	101.0	2240.0	37.7	4.065	205.7	221.5	864.0	2386.0	32159.0
12.1	200.0	125.0	5.6	7.0	17	9	8	2.1	150.0	8.8	0.504	6.4	7.2	54.0	89.5	948.4
12.8	226.7	131.3	5.5	7.2	22	11	10	5.5	220.0	6.1	0.978	6.4	7.3	73.0	84.0	898.6
12.2	213.3	118.6	5.6	7.1	25	13	11	4.0	173.3	7.7	1.145	6.6	7.0	128.3	85.3	1147.1
11.2	206.7	138.6	5.4	6.9	19	10	11	2.2	146.7	10.7	0.996	6.9	7.2	112.5	77.7	1147.1
11.5	208.6	122.4	5.6	7.1	22	11	11	3.7	172.3	7.5	0.813	6.6	7.1	96.0	85.2	1037.4
5.3	180.0	70.0	3.7	6.5	7	5	5	0.8	140.0	4.4	0.442	5.2	6.5	46.0	47.0	454.0
17.4	240.0	155.0	9.1	7.7	39	24	28	21.0	300.0	10.7	1.145	8.7	7.6	193.0	178.0	1405.0

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
				Flow (MGD)														
30-Sep							12.660											
1-Oct	10.050	1.707	0.700	2.530		12.580	12.610	8.750	5.150	0.868	69.555	40.938						
2-Oct	19.050	3.217	0.984	5.070		24.120	24.120	6.240	2.170	0.716	25.871	8.997						
3-Oct	12.280	1.880	0.747	3.060		15.340	17.160	8.800	5.050	0.766	57.366	32.920						
4-Oct	11.720	1.806	0.705	2.570		14.290	14.630	8.450	4.830	0.851	59.132	33.800						
5-Oct	10.870	1.624	0.631	2.420		13.290	14.090	8.620	4.330	0.348	64.861	32.581						
6-Oct	10.170	1.525	0.579	2.510		12.680	13.200	8.570	4.680	0.613	67.587	36.909						
7-Oct	11.090	1.835	0.675	2.710		13.800	13.720	8.620	4.890	0.561	62.464	35.435						
8-Oct	11.110	1.788	0.720	2.800		13.910	14.690	8.590	4.630	0.759	61.754	33.285						
9-Oct	10.300	1.619	0.685	2.470		12.770	12.490	8.520	4.570	0.757	66.719	35.787						
10-Oct	11.110	1.791	0.764	2.780		13.890	13.570	8.590	4.190	0.848	61.843	30.166						
11-Oct	10.170	1.663	0.665	2.510		12.680	13.110	8.560	5.400	0.699	67.508	42.587						
12-Oct	10.220	1.585	0.657	2.470		12.690	12.160	8.570	4.960	0.410	67.533	39.086						
13-Oct	9.750	1.601	0.581	2.650		12.400	12.130	8.510	4.770	0.384	68.629	38.468						
14-Oct	10.470	1.782	0.662	2.420		12.890	13.360	8.840	5.430	0.730	68.580	42.126						
15-Oct	11.780	1.788	0.763	2.790		14.570	15.990	9.000	4.360	0.731	61.771	29.925						
16-Oct	10.280	1.535	0.743	2.520		12.800	11.910	8.880	5.240	0.782	69.375	40.938						
17-Oct	9.450	0.703	0.660	2.570		12.020	12.810	9.170	5.520	0.954	76.290	45.923						
18-Oct	15.040	3.486	0.912	3.290		18.330	19.140	8.700	5.270	0.986	47.463	28.751						
19-Oct	15.800	2.424	0.740	4.900		20.700	20.700	5.850	2.900	0.388	28.261	14.010						
20-Oct	11.840	1.960	0.613	3.410		15.250	17.020	8.010	5.800	0.637	52.525	38.033						
21-Oct	11.000	2.148	0.667	3.250		14.250	15.060	7.890	5.400	0.597	55.368	37.895						
22-Oct	10.770	1.718	0.666	2.930		13.700	14.690	7.540	5.460	0.788	55.036	39.854						
23-Oct	10.540	1.758	0.683	2.650		13.190	14.070	8.890	5.290	0.779	67.400	40.106						
24-Oct	10.050	1.612	0.681	2.810		12.860	14.100	9.320	4.020	0.794	72.473	31.260						
25-Oct	10.260	1.764	0.712	2.730		12.990	13.500	7.130	4.580	0.579	54.888	35.258						
26-Oct	9.750	1.518	0.663	2.520		12.270	13.320	8.720	4.080	0.225	71.068	33.252						
27-Oct	9.890	1.679	0.583	2.660		12.550	13.070	8.680	4.300	0.663	69.163	34.263						
28-Oct	11.560	2.197	0.307	3.280		14.840	15.600	9.130	2.220	0.542	61.523	14.960						
29-Oct	31.370	6.453	1.466	9.920		41.290	41.290	2.140		1.167	5.183		14:40					
30-Oct	21.520	3.612	0.760	6.180		27.700	27.700	0.380		0.869	1.372			13:45				
31-Oct	15.270	2.510	0.705	4.550		19.820	22.480	8.210	2.050	0.768	41.423	10.343						
1-Nov							19.200											
2-Nov							17.290											
3-Nov							16.350											
				Influent flow metering used due to inconsistency over 25 MGD														
Total	384.530	64.288	22.079	101.930	0.000	486.460	556.330	245.870	131.540	21.559	1759.983	957.85						
Week 1	12.176	1.942	0.717	2.981	#DIV/0!	15.157	15.647	8.293	4.443	0.675	58.119	31.65						
Week 2	10.447	1.690	0.676	2.586	#DIV/0!	13.033	13.073	8.597	4.850	0.655	66.081	37.36						
Week 3	12.170	2.006	0.728	3.247	#DIV/0!	15.417	16.090	8.214	4.927	0.725	55.865	33.64						
Week 4	10.403	1.749	0.614	2.797	#DIV/0!	13.200	14.050	8.487	4.279	0.624	64.507	32.71						
Monthly	12.404	2.074	0.712	3.288	#DIV/0!	15.692	16.242	7.931	4.536	0.695	56.774	33.03						
Min =	9.450	0.703	0.307	2.420	0.000	12.020	11.910	0.380	2.050	0.225	1.372	9.00						
Max =	31.370	6.453	1.466	9.920	0.000	41.290	41.290	9.320	5.800	1.167	76.290	45.92						

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	October 2012			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
30-Sep															
1-Oct										7.2	354	4940	7.2	302	5080
2-Oct	7.1		5090	7.1		5040	7.1		4940						
3-Oct										7.3		5200	7.2		4860
4-Oct	7.1	231	4980	7.1	233	5200	7.2	290	5080						
5-Oct										7.2	112	5040	7.2	273	5080
6-Oct															
7-Oct	7.2	246	5280	7.2	254	5200	7.2	312	5120						
8-Oct										7.3	204	5120	7.2	250	5040
9-Oct	7.2	540	5180	7.2	423	5180	7.3	367	5240						
10-Oct										7.3	423	5300	7.2	473	5200
11-Oct	7.2		4920	7.2		4980	7.2		5400						
12-Oct										7.2		5160	7.2		5220
13-Oct															
14-Oct	7.1	227	4780	7.1	171	4960	7.1	146	5260						
15-Oct										7.3	215	5060	7.2	225	5020
16-Oct	7.2	240	4740	7.1	342	4960	7.1	315	5100						
17-Oct										7.3	408	5080	7.2	285	5040
18-Oct	7.2		5100	7.2		5100	7.2		5300						
19-Oct										7.3		5100	7.2		5300
20-Oct															
21-Oct	7.2	148	4620	7.3	177	5360	7.3	144	5140						
22-Oct										7.2	227	5160	7.1	123	5080
23-Oct	7.1		4920	7.2		5200	7.1		5400						
24-Oct										7.2		3820	7.1		5220
25-Oct	7.2	185	4880	7.1	448	5100	7.1	92	5300						
26-Oct										7.1	525	4660	7.2	92	5180
27-Oct															
28-Oct	7.2	162	5000	7.1	281	5600	7.2	144	5620						
29-Oct										7.2	56	5200	7.2	85	5460
30-Oct	7.2	462	4820	7.3	212	4780	7.3	181	5580						
31-Oct										7.2	113	4700	7.2	136	4740
1-Nov															
2-Nov															
3-Nov															
Total	93.1	2441	64310	93.2	2541	66660	93.3	1991	68480	101.1	2637	69540	100.7	2244	71520
Week 1	7.1	239	5117	7.1	244	5147	7.2	301	5047	7.2	233	5060	7.2	288	5007
Week 2	7.2	384	4960	7.2	297	5040	7.2	257	5300	7.3	314	5193	7.2	362	5153
Week 3	7.2	194	4820	7.2	260	5140	7.2	230	5180	7.3	312	5080	7.2	255	5120
Week 4	7.2	174	4933	7.1	365	5300	7.1	118	5440	7.2	376	4547	7.1	108	5160
Monthly	7.2	271	4947	7.2	282	5128	7.2	221	5268	7.2	264	4967	7.2	224	5109
Min =	7.1	148	4620	7.1	171	4780	7.1	92	4940	7.1	56	3820	7.1	85	4740
Max =	7.2	540	5280	7.3	448	5600	7.3	367	5620	7.3	525	5300	7.2	473	5460

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October 2012 Laboratory Results

	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	% Solids GBT	% Solids GBT Filtrate	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	P1-4 %TS	P1-4 %VS	Dig 4 %TS	Dig 4 %VS	Dig 5 %TS	Dig 5 %VS
1-Oct	3.33%	20.42%	0.16%	3.93%										3.15%		2.61%	
2-Oct	2.57%	19.22%	0.15%	5.39%													
3-Oct	2.57%	23.46%	0.13%	6.82%								5.99%	67.58%	0.53%	58.33%	1.88%	63.64%
4-Oct	2.92%	20.51%	0.86%	5.06%													
5-Oct	1.94%	21.60%	0.11%	4.70%										2.93%		1.86%	
6-Oct	2.73%	18.23%	0.14%	4.65%													
7-Oct	1.50%	19.51%	0.10%	6.21%													
8-Oct	2.22%	18.71%	0.14%	5.10%										0.40%		2.32%	
9-Oct	2.81%	19.44%	0.08%	4.25%													
10-Oct	2.34%	19.34%	0.15%	5.60%								3.70%	85.71%	0.61%	57.14%	2.22%	44.44%
11-Oct	1.84%	20.97%	0.11%	3.93%													
12-Oct	1.99%	18.62%	0.11%	3.46%										2.47%		2.82%	
13-Oct	1.82%	20.70%	0.15%	3.89%													
14-Oct	1.82%	20.27%	0.16%	5.22%													
15-Oct	2.34%	18.98%	0.14%	4.90%										0.37%		2.40%	
16-Oct	1.96%	18.32%	0.14%	4.11%													
17-Oct	2.10%	18.47%	0.11%	5.70%								3.80%	81.63%	0.77%	68.42%	3.81%	47.73%
18-Oct	1.31%	18.60%	0.18%	3.92%													
19-Oct	1.77%	18.31%	0.12%	5.52%										0.52%		1.80%	
20-Oct	2.52%	21.79%	0.16%	3.94%													
21-Oct	1.89%	22.55%	0.18%	6.06%													
22-Oct	1.87%	19.53%	0.14%	5.40%										2.25%		3.25%	
23-Oct	1.79%	18.63%	0.14%	4.96%													
24-Oct	2.26%	19.07%	0.11%	4.67%								3.20%	84.21%	1.77%	67.31%	2.98%	64.20%
25-Oct	2.04%	18.89%	0.13%	6.76%													
26-Oct	1.96%	16.14%	0.12%	4.15%										3.82%		2.59%	
27-Oct	2.42%	19.57%	0.10%	3.62%													
28-Oct	2.81%	18.58%	0.16%	4.07%													
29-Oct	2.28%	19.06%	0.16%	3.55%										2.38%		3.26%	
30-Oct	2.32%	17.15%	0.12%	4.70%													
31-Oct	2.13%	19.34%	0.18%	5.08%								3.41%	69.84%	2.21%	67.33%	2.84%	67.20%
Avg	2.20%	19.48%	0.16%	4.82%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.02%	77.79%	1.73%	63.71%	2.62%	57.44%
Min	1.31%	16.14%	0.08%	3.46%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	5.99%	85.71%	3.82%	68.42%	3.81%	67.20%
Max	3.33%	23.46%	0.86%	6.82%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	3.20%	67.58%	0.37%	57.14%	1.80%	44.44%

October 2012 Supernating Data

	Digester#4	Gallons Supernated	%Solids	lbs supernated	Digester#5	Gallons Supernated	%Solids	lbs supernated	Total Gallons Supernated	Total lbs Supernated
Mon 1									0	0
Tue 2									0	0
Wed 3									0	0
Thu 4									0	0
Fri 5									0	0
Sat 6									0	0
Sun 7									0	0
Mon 8									0	0
Tue 9									0	0
Wed 10									0	0
Thu 11									0	0
Fri 12									0	0
Sat 13									0	0
Sun 14									0	0
Mon 15									0	0
Tue 16									0	0
Wed 17									0	0
Thu 18									0	0
Fri 19									0	0
Sat 20									0	0
Sun 21									0	0
Mon 22									0	0
Tue 23									0	0
Wed 24									0	0
Thu 25									0	0
Fri 26									0	0
Sat 27									0	0
Sun 28									0	0
Mon 29									0	0
Tue 30									0	0
Wed 31									0	0
TOTAL		0		0		0		0	0	0
AVG.										

Dissolved Oxygen -October 2009

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
10/1/2010	7.1	7.2	7.4	7.2	7.1	6.9	8.8		6.9
10/2/2010	7.0	7.0	6.9	6.2	5.1	6.0	6.6		5.1
10/3/2010	6.5	7.7	8.3	7.8	7.5	7.4	7.7		6.5
10/4/2010	7.4	7.1	7.5	7.2	7.0	6.9	8.1		6.9
10/5/2010	6.9	6.9	6.9	6.9	6.8	6.7	6.5		6.5
10/6/2010	6.7	6.8	6.9	7.1	7.2	7.2	6.7		6.7
10/7/2010	7.1	7.2	7.4	7.4	7.2	7.1	7.5		7.1
10/8/2010	7.2	7.4	7.7	7.4	7.4	7.3	6.9		6.9
10/9/2010	7.2	7.2	7.4	7.4	7.2	7.0	7.6		7.0
10/10/2010	7.0	7.1	7.2	6.9	6.8	6.8	7.4		6.8
10/11/2010	6.9	7.1	7.2	7.2	7.3	7.2	7.1		6.9
10/12/2010	7.2	7.1	7.2	7.2	7.2	7.2	6.6		6.6
10/13/2010	7.4	7.4	7.6	7.7	7.4	7.3	6.8		6.8
10/14/2010	7.3	7.5	7.6	7.7	7.3	7.0	7.3		7.0
10/15/2010	6.8	7.0	7.1	6.7	6.6	6.6	8.0		6.6
10/16/2010	6.7	6.9	7.0	6.8	7.1	6.9	7.7		6.7
10/17/2010	6.9	7.1	7.1	7.1	7.0	6.9	6.8		6.8
10/18/2010	6.8	7.0	7.2	7.0	7.0	6.8	6.7		6.7
10/19/2010	6.5	6.7	6.2	6.2	6.5	6.5	6.0		6.0
10/20/2010	7.0	7.0	7.7	8.0	7.9	7.4	7.4		7.0
10/21/2010	7.3	7.6	8.0	8.1	7.4	7.3	7.6		7.3
10/22/2010	7.4	7.6	8.1	7.8	7.3	7.1	7.6		7.1
10/23/2010	7.1	7.0	7.4	7.4	7.1	6.9	6.9		6.9
10/24/2010	6.9	7.0	7.0	7.0	6.8	6.6	6.7		6.6
10/25/2010	6.6	6.6	6.9	7.0	6.9	6.8	8.4		6.6
10/26/2010	6.9	7.0	7.0	7.1	6.9	6.9	6.8		6.8
10/27/2010	7.0	7.1	7.2	7.4	7.0	6.8	7.2		6.8
10/28/2010	6.9	7.0	7.0	7.2	7.0	7.0	6.8		6.8
10/29/2010	7.1	7.1	6.9	6.3	5.2	NA	6.9		5.2
10/30/2010	NA	5.5	7.0	8.0	7.6	7.6	6.3		5.5
10/31/2010	7.4	7.6	7.6	7.8	7.6	7.6	9.4		7.4
Min	6.50	5.50	6.20	6.20	5.10	6.00	6.0	Min	5.10
Max	7.40	7.70	8.30	8.10	7.90	7.60	9.4	Max	7.40
								Avg	6.66

On October 29/30, a DO reading was taken in Side B before all channels come together and flow over the weir to the discharge outfall with a result of 4.81 mg/L. Although this is not an official sampling location and was noted as such, DEP was notified and we were instructed to note the DO.

October 2012
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Oct	0.07	0.03	0.02	0.04	0.07	0.05	0.05	
2-Oct	0.08	0.07	0.05	0.02	0.01	0.04	0.05	
3-Oct	0.04	0.04	0.05	0.07	0.05	0.05	0.05	
4-Oct	0.05	0.07	0.03	0.08	0.06	0.04	0.06	
5-Oct	0.04	0.19	0.05	0.07	0.04	0.06	0.08	
6-Oct	0.05	0.16	0.05	0.02	0.07	0.04	0.07	
7-Oct	0.11	0.05	0.04	0.04	0.04	0.04	0.05	
8-Oct	0.05	0.09	0.06	0.02	0.00	0.00	0.04	
9-Oct	0.07	0.18	0.04	0.04	0.02	0.04	0.07	
10-Oct	0.06	0.08	0.02	0.04	0.04	0.06	0.05	
11-Oct	0.07	0.06	0.05	0.01	0.04	0.04	0.05	
12-Oct	0.13	0.05	0.02	0.01	0.04	0.04	0.05	
13-Oct	0.07	0.04	0.02	0.07	0.05	0.04	0.05	
14-Oct	0.05	0.05	0.05	0.07	0.05	0.06	0.06	
15-Oct	0.05	0.07	0.02	0.03	0.02	0.04	0.04	
16-Oct	0.05	0.02	0.00	0.08	0.05	0.01	0.04	
17-Oct	0.04	0.05	0.04	0.03	0.03	0.03	0.04	
18-Oct	0.05	0.07	0.03	0.09	0.04	0.05	0.06	
19-Oct	0.09	0.06	0.03	0.12	0.09	0.04	0.07	
20-Oct	0.04	0.06	0.02	0.06	0.06	0.05	0.05	
21-Oct	0.08	0.03	0.00	0.02	0.06	0.04	0.04	
22-Oct	0.06	0.05	0.02	0.03	0.00	0.04	0.03	
23-Oct	0.05	0.06	0.05	0.04	0.01	0.04	0.04	
24-Oct	0.06	0.03	0.03	0.07	0.02	0.05	0.04	
25-Oct	0.07	0.04	0.05	0.03	0.04	0.03	0.04	
26-Oct	0.08	0.07	0.04	0.00	0.07	0.04	0.05	
27-Oct	0.05	0.06	0.03	0.06	0.02	0.05	0.05	
28-Oct	0.06	0.05	0.10	0.02	0.04	0.03	0.05	
29-Oct	0.05	0.02	0.06	0.10	0.15	0.08	0.08	
30-Oct	0.18	0.16	0.03	0.06	0.06	0.06	0.09	
31-Oct	0.04	1.20	0.02	0.02	0.03	0.05	0.23	
Average	0.07	0.11	0.04	0.05	0.04	0.04	0.06	
Minimum	0.04	0.02	0.00	0.00	0.00	0.00		
Maximum	0.18	1.20	0.10	0.12	0.15	0.08		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* October 2012

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X	% Solids	X	Conv. Factor	=	Dry Tons
	X		X	0.0000417	=	0.00
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
				TOTAL	=	0.00

Hauled as dewatered sludge

Tons dewatered sludge	X	% Solids	X	0.01	=	Dry Tons
0.00	X	19.48	X	0.01	=	0.00
0.00	X	19.48	X	0.01	=	0.00
0.00	X	19.48	X	0.01	=	0.00
974.90	X	19.48	X	0.01	=	189.91
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
				TOTAL	=	189.91

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	189.91
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

11/20/12
Date

City of Reading 3-C Watershed *for the Month* October 2012

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

October 2012 Disposal Site Report

Date	Sludge Conestoga (Tons)	Sludge Rolling Hills (Tons)	Sludge Modern (Tons)	Sludge Pioneer Crossing (Tons)	6th St. (Tons)	Grit (Tons)	Tank Cleanings (Tons)	Scum (Tons)	San Swr Soil (Tons)	Exeter Sludge (Gallons)	Exeter % Solids	Valley Forge Sludge (Gallons)	Valley Forge % Solids	Total Cans Hauled Biosolids
Mon 1				70.65		6.36								4
Tue 2				37.77										2
Wed 3				33.90										2
Thu 4				31.94										2
Fri 5				36.48					14.83					2
Sat 6				13.45										1
Sun 7														
Mon 8				49.02										3
Tue 9				49.13										3
Wed 10				33.64										2
Thu 11				33.97					15.21					2
Fri 12				33.85										2
Sat 13														
Sun 14														
Mon 15				51.00										3
Tue 16				33.97	7.44									2
Wed 17				34.26										2
Thu 18				49.50										3
Fri 19				14.69										1
Sat 20														
Sun 21														
Mon 22				68.60										4
Tue 23				34.99		5.49								2
Wed 24				35.96										2
Thu 25				51.26										3
Fri 26				17.16										1
Sat 27														
Sun 28														
Mon 29				70.81										4
Tue 30				54.70										3
Wed 31				34.20										2
Total:	0.00	0.00	0.00	974.90	7.44	11.85	0.00	0.00	30.04	0		0		57
Ave:	0.00	0.00	0.00	40.62	7.44	5.93	0.00	0.00	15.02	0		0		
Min:	0.00	0.00	0.00	13.45	7.44	5.49	0.00	0.00	14.83	0		0		
Max:	0.00	0.00	0.00	70.81	7.44	6.36	0.00	0.00	15.21	0		0		

CITY OF READING WASTEWATER TREATMENT PLANT

October 2012 Biosolids Report

Solids Processing:

	Total
Sludge Pumped from Primary Settling Tanks (gallons):	3,645,068
Secondary Sludge Pumped to Mix Tank (gallons):	7,978,000
Supernated from Secondary Digesters (gallons):	0

Gravity Belt Thickeners:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	6,753,665	5,135,488	47,382	11,936,535
Thickened Sludge (gallons):	1,044,801	791,300	4,699	1,840,800
Polymer (pounds):	991.32	593.29	7.51	1592.12
Solids (dry tons):	205.18	150.32	0.70	356.20
Polymer dosage (pounds/dry ton):	4.83	3.95	10.80	4.47
% Reduction:	84.53%	84.59%	90.08%	84.58%
GBT Solids in Filtrate (dry tons):	6.75	33.99	0.32	41.06
GBT 1 Hours of Operation:	206.00	175.50	3.00	384.50
GBT 2 Hours of Operation:	201.00	176.50	3.00	380.50
Total GBT Hours of Operation:	407.00	352.00	6.00	765.00
Dry tons/hour:	0.50	0.43	0.12	0.47

Belt Filter Presses:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	978,679	1,060,949	53,225	2,092,853
Polymer (pounds):	991.32	1081.44	52.57	2125.33
Solids (dry tons):	88.04	98.79	5.06	191.90
Polymer dosage (pounds/dry ton):	11.26	10.95	10.39	11.08
% Solids Recovery:	89.81%	93.50%	93.77%	92.36%
Solids in Filtrate (dry tons):	6.20	7.37	0.36	13.92
BFP 1 Hours of Operation:	7.00	8.00	6.00	21.00
BFP 2 Hours of Operation:	7.00	15.50	0.00	22.50
BFP 3 Hours of Operation:	197.50	210.00	7.50	415.00
BFP 4 Hours of Operation:	197.00	187.00	7.50	391.50
Total BFP Hours of Operation:	408.50	420.50	21.00	850.00
Dry tons/hour:	0.22	0.23	0.24	0.23

Total Solids in Filtrate (dry tons):	54.97
% Solids (Method 2540 G):	19.48%
Total Wet Tons Removed:	974.90
Dry Tons Removed:	189.91
Hours of Operation:	442
Fritz Island Scum Disposed (tons):	0.00
Fritz Island Grit Disposed (tons):	11.85
6th & Canal Grit Disposed (tons):	7.44
Mix Tank Cleaning/Snail Shells Disposed (tons):	0.00
Sanitary Sewer Excavation Soil (tons):	30.04

October 2012 Biosolids Report

Date	Volatile Solids Reducton PST (VS%)	Sec Dig (VS%)	VSR (%)	% Solids Feed	Cake (I-3750-85)	Filtrate	Thickened	GBT Filtrate	Polymer (lbs)	BFP Feed (gal)	Solids (dry tons)	Polymer Dose lb/dry ton	Wet Tons	6th St.	Grit	Snail Shells	Scum	Supernated (gpd)	GBT Feed (gal)	Thickened (gal)	GBT Poly (lbs)	Date
Mon 1				3.33%	20.42%	0.16%	3.93%	0.16%	75.10	76,206	10.58	7.10	70.65		6.36			0	421,602	71,900	67.59	Mon 1
Tue 2				2.57%	19.22%	0.15%	5.39%	0.15%	90.12	84,523	9.06	9.95	37.77					0	421,643	56,100	67.59	Tue 2
Wed 3	67.58%	58.33%	32.85%	2.57%	23.46%	0.13%	6.82%	0.13%	52.57	59,543	6.38	8.24	33.90					0	392,079	71,700	60.08	Wed 3
Thu 4				2.92%	20.51%	0.86%	5.06%	0.86%	75.10	69,122	8.42	8.92	31.94					0	425,942	55,600	60.08	Thu 4
Fri 5				1.94%	21.60%	0.11%	4.70%	0.11%	97.63	100,476	8.13	12.01	36.48					0	419,837	50,300	52.57	Fri 5
Sat 6				2.73%	18.23%	0.14%	4.65%	0.14%	45.06	41,479	4.72	9.54	13.45					0	200,013	77,400	37.55	Sat 6
Sun 7				1.50%	19.51%	0.10%	6.21%	0.10%	37.55	41,681	2.61	14.40						0	197,192	42,800	37.55	Sun 7
Mon 8				2.22%	18.71%	0.14%	5.10%	0.14%	135.18	83,824	7.76	17.42	49.02					0	416,904	65,500	37.55	Mon 8
Tue 9				2.81%	19.44%	0.08%	4.25%	0.08%	82.61	88,799	10.41	7.94	49.13					0	449,453	70,300	60.08	Tue 9
Wed 10	85.71%	57.14%	77.77%	2.34%	19.34%	0.15%	5.60%	0.15%	82.61	86,838	8.47	9.75	33.64					0	415,783	64,200	52.57	Wed 10
Thu 11				1.84%	20.97%	0.11%	3.93%	0.11%	82.61	84,848	6.51	12.69	33.97					0	382,806	50,400	52.57	Thu 11
Fri 12				1.99%	18.62%	0.11%	3.46%	0.11%	75.10	81,722	6.78	11.07	33.85					0	448,355	64,300	67.59	Fri 12
Sat 13				1.82%	20.70%	0.15%	3.89%	0.15%	22.53	21,010	1.59	14.13						0	189,452	56,199	37.55	Sat 13
Sun 14				1.82%	20.27%	0.16%	5.22%	0.16%	22.53	24,467	1.86	12.13						0	209,186	57,900	37.55	Sun 14
Mon 15				2.34%	18.98%	0.14%	4.90%	0.14%	82.61	84,753	8.27	9.99	51.00					0	458,960	65,601	67.59	Mon 15
Tue 16				1.96%	18.32%	0.14%	4.11%	0.14%	75.10	86,184	7.04	10.66	33.97	7.44				0	373,572	73,900	52.57	Tue 16
Wed 17	81.63%	68.42%	51.24%	2.10%	18.47%	0.11%	5.70%	0.11%	97.63	80,765	7.07	13.80	34.26					0	458,750	54,600	60.08	Wed 17
Thu 18				1.31%	18.60%	0.18%	3.92%	0.18%	82.61	80,731	4.41	18.73	49.50					0	569,595	52,100	75.10	Thu 18
Fri 19				1.77%	18.31%	0.12%	5.52%	0.12%	90.12	82,255	6.07	14.84	14.69					0	452,573	49,800	37.55	Fri 19
Sat 20				2.52%	21.79%	0.16%	3.94%	0.16%	37.55	36,973	3.89	9.66						0	225,416	63,900	30.04	Sat 20
Sun 21				1.89%	22.55%	0.18%	6.06%	0.18%	37.55	38,700	3.05	12.31						0	229,789	35,800	37.55	Sun 21
Mon 22				1.87%	19.53%	0.14%	5.40%	0.14%	82.61	83,786	6.53	12.64	68.60					0	466,670	60,400	52.57	Mon 22
Tue 23				1.79%	18.63%	0.14%	4.96%	0.14%	67.59	58,162	4.34	15.57	34.99		5.49			0	455,133	57,500	67.59	Tue 23
Wed 24	84.21%	67.31%	61.39%	2.26%	19.07%	0.11%	4.67%	0.11%	75.10	79,858	7.53	9.98	35.96					0	466,979	66,899	45.06	Wed 24
Thu 25				2.04%	18.89%	0.13%	6.76%	0.13%	52.57	74,523	6.34	8.29	51.26					0	439,708	49,300	45.06	Thu 25
Fri 26				1.96%	16.14%	0.12%	4.15%	0.12%	37.55	27,430	2.24	16.75	17.16					0	353,700	71,801	60.08	Fri 26
Sat 27				2.42%	19.57%	0.10%	3.62%	0.10%	37.55	32,784	3.31	11.35						0	194,339	44,400	45.06	Sat 27
Sun 28				2.81%	18.58%	0.16%	4.07%	0.16%	15.02	16,904	1.98	7.58						0	264,195	63,099	30.04	Sun 28
Mon 29				2.28%	19.06%	0.16%	3.55%	0.16%	142.69	151,262	14.38	9.92	70.81					0	560,919	101,500	90.12	Mon 29
Tue 30				2.32%	17.15%	0.12%	4.70%	0.12%	45.06	41,528	4.02	11.22	54.70					0	484,056	23,401	30.04	Tue 30
Wed 31	69.84%	67.33%	11.00%	2.13%	19.34%	0.18%	5.08%	0.18%	90.12	91,717	8.15	11.06	34.20					0	491,934	52,200	37.55	Wed 31
Total:					603.98%				2,125.33	2,092,853	191.90	11.08	974.90	7.44	11.85	0.00	0.00	0	11,936,535	1,840,800	1592.12	
Ave:	77.79%	63.71%	46.85%	2.20%	19.48%	0.16%	4.82%	0.16%	68.56	67,511	6.19	11.60	40.62	7.44	5.93	0.00	0.00	0	385,050	59,381	51.36	
Min:	67.58%	57.14%	11.00%	1.31%	16.14%	0.08%	3.46%	0.08%	15.02	16,904	1.59	7.10	13.45									
Max:	85.71%	68.42%	77.77%	3.33%	23.46%	0.86%	6.82%	0.86%	142.69	151,262	14.38	18.73	70.81									

Total Dry Tons, Cake =	974.90	x	19.48	x	0.01 =	189.91 dry tons

October 2012 Solids Operations Report

10 PM - 6 AM

Date	BFP % Solids Feed	BFP % Solids Cake	BFP % Solids Filtrate (I-3750-85)	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened	GBT % Solids Filtrate (I-3750-85)	Gravity Belt Thickener Feed (gal)	Thickned (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Mon 1	3.33%	20.42%	0.16%	39,917	37.55	5.54	6.77	95.95%	16.00	0.35	0.27	3.93%	0.16%	247,503	47,700	80.73%	45.06	7.82	5.76	16.00	0.49	0.318254
Tue 2	2.57%	19.22%	0.15%	42,194	52.57	4.52	11.63	94.90%	16.00	0.28	0.26	5.39%	0.15%	274,577	40,400	85.29%	52.57	9.08	5.79	16.00	0.57	0.252702
Wed 3	2.57%	23.46%	0.13%	41,711	30.04	4.47	6.72	95.47%	16.00	0.28	0.23	6.82%	0.13%	238,785	54,900	77.01%	37.55	15.61	2.41	16.00	0.98	0.297613
Thu 4	2.92%	20.51%	0.86%	22,605	37.55	2.75	13.64	73.64%	16.00	0.17	0.81	5.06%	0.86%	267,921	37,200	86.12%	37.55	7.85	4.78	16.00	0.49	1.334066
Fri 5	1.94%	21.60%	0.11%	53,400	52.57	4.32	12.17	94.81%	16.00	0.27	0.24	4.70%	0.11%	258,075	35,600	86.21%	37.55	6.98	5.38	16.00	0.44	0.163297
Sat 6	2.73%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 7	1.50%	19.51%	0.10%	41,681	37.55	2.61	14.40	93.81%	16.00	0.16	0.17	6.21%	0.10%	197,192	42,800	78.30%	37.55	11.08	3.39	16.00	0.69	0.178476
Mon 8	2.22%	18.71%	0.14%	41,375	75.10	3.83	19.61	94.40%	16.00	0.24	0.24	5.10%	0.14%	259,404	48,400	81.34%	22.53	10.29	2.19	16.00	0.64	0.282559
Tue 9	2.81%	19.44%	0.08%	42,894	37.55	5.03	7.47	97.55%	16.00	0.31	0.14	4.25%	0.08%	244,499	41,200	83.15%	37.55	7.30	5.14	16.00	0.46	0.137443
Wed 10	2.34%	19.34%	0.15%	41,556	37.55	4.05	9.26	94.32%	16.00	0.25	0.26	5.60%	0.15%	243,579	38,000	84.40%	37.55	8.87	4.23	16.00	0.55	0.23769
Thu 11	1.84%	20.97%	0.11%	40,098	37.55	3.08	12.20	94.52%	16.00	0.19	0.18	3.93%	0.11%	244,435	35,800	85.35%	37.55	5.87	6.40	16.00	0.37	0.164215
Fri 12	1.99%	18.62%	0.11%	42,045	30.04	3.49	8.61	95.03%	16.00	0.22	0.19	3.46%	0.11%	248,952	41,300	83.41%	45.06	5.96	7.56	16.00	0.37	0.189443
Sat 13	1.82%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 14	1.82%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 15	2.34%	18.98%	0.14%	41,830	45.06	4.08	11.04	94.72%	16.00	0.26	0.24	4.90%	0.14%	264,371	33,601	87.29%	52.57	6.86	7.66	16.00	0.43	0.196163
Tue 16	1.96%	18.32%	0.14%	42,280	37.55	3.46	10.87	93.57%	15.00	0.23	0.25	4.11%	0.14%	210,755	31,499	85.05%	37.55	5.40	6.96	12.00	0.45	0.183891
Wed 17	2.10%	18.47%	0.11%	36,136	45.06	3.16	14.24	95.33%	23.00	0.14	0.17	5.70%	0.11%	268,887	40,500	84.94%	37.55	9.63	3.90	16.00	0.60	0.185774
Thu 18	1.31%	18.60%	0.18%	41,900	45.06	2.29	19.69	87.10%	16.00	0.14	0.31	3.92%	0.18%	250,629	31,000	87.63%	37.55	5.07	7.41	16.00	0.32	0.232686
Fri 19	1.77%	18.31%	0.12%	41,035	45.06	3.03	14.88	93.84%	16.00	0.19	0.21	5.52%	0.12%	263,160	30,100	88.56%	30.04	6.93	4.34	16.00	0.43	0.15062
Sat 20	2.52%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 21	1.89%	22.55%	0.18%	38,700	37.55	3.05	12.31	91.20%	16.00	0.19	0.29	6.06%	0.18%	229,789	35,800	84.42%	37.55	9.05	4.15	16.00	0.57	0.268715
Mon 22	1.87%	19.53%	0.14%	41,188	37.55	3.21	11.69	93.18%	16.00	0.20	0.24	5.40%	0.14%	274,314	43,300	84.22%	37.55	9.75	3.85	16.00	0.61	0.252785
Tue 23	1.79%	18.63%	0.14%	37,086	30.04	2.77	10.85	92.88%	15.00	0.18	0.22	4.96%	0.14%	260,458	35,200	86.49%	45.06	7.28	6.19	15.00	0.49	0.205498
Wed 24	2.26%	19.07%	0.11%	36,589	30.04	3.45	8.71	95.68%	16.00	0.22	0.17	4.67%	0.11%	297,736	38,299	87.14%	37.55	7.46	5.03	16.00	0.47	0.175678
Thu 25	2.04%	18.89%	0.13%	37,870	30.04	3.22	9.32	94.28%	16.00	0.20	0.21	6.76%	0.13%	271,229	35,801	86.80%	37.55	10.09	3.72	16.00	0.63	0.194077
Fri 26	1.96%	16.14%	0.12%	18,232	22.53	1.49	15.12	94.58%	7.50	0.20	0.09	4.15%	0.12%	193,500	37,300	80.72%	37.55	6.45	5.82	8.00	0.81	0.186649
Sat 27	2.42%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 28	2.81%	18.58%	0.16%	16,904	15.02	1.98	7.58	95.13%	16.00	0.12	0.11	4.07%	0.16%	264,195	63,099	76.12%	30.04	10.71	2.81	16.00	0.67	0.420997
Mon 29	2.28%	19.06%	0.16%	38,458	37.55	3.66	10.27	93.77%	16.00	0.23	0.26	3.55%	0.16%	298,421	65,501	77.90%	52.57	9.70	5.42	16.00	0.61	0.437023
Tue 30	2.32%	17.15%	0.12%	11,055	15.02	1.07	14.04	95.50%	8.00	0.13	0.06	4.70%	0.12%	355,912	20,901	94.13%	22.53	4.10	5.50	16.00	0.26	0.104589
Wed 31	2.13%		0.18%	49,940	52.57	4.44	11.85	0.00%	20.00		0.37			327,387	39,600		30.04			20.00		
Total =				978,679	991.32	88.04	11.26	89.81%	408.50	5.36	6.20			6,753,865	1,044,801	84.53%	991.32	205.18	4.83	407.00	13.37	6.75
Average =	2.20%	19.36%	0.16%	31,570	31.98	2.84	11.73	89.81%	13.18	0.21	0.20	4.92%	0.16%	217,860	33,703	84.11%	31.98	8.21	5.03	13.13	0.53	0.27
Minimum =	1.31%	16.14%	0.08%	0	0.00	0.00	6.72	0.00%	0.00	0.12	0.00	3.46%	0.08%	0	0	76.12%	0.00	4.10	2.19	0.00	0.26	0.10
Maximum =	3.33%	23.46%	0.86%	53,400	75.10	5.54	19.69	97.55%	23.00	0.35	0.81	6.82%	0.86%	355,912	65,501	94.13%	52.57	15.61	7.66	20.00	0.98	1.33

(%feed)(%cake - %filtrate)

October 2012 Solids Operations Report

10 PM - 6 AM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Mon 1	8	2.55%	20.28%	0.15%	5.05%	2.10%	18.38%	0.15%	5.14%	0	0	18818	21099	2	3	99,599	147,904	47,700	4	2	0.00	0.00	8.00	8.00	8.00	8.00
Tue 2	8	2.12%	19.01%	0.16%	5.04%	1.85%	19.35%	0.14%	5.24%	0	0	18794	23400	4	3	120,200	154,377	40,400	4	3	0.00	0.00	8.00	8.00	8.00	8.00
Wed 3	8	1.55%	19.34%	0.16%	4.93%	1.40%	21.23%	0.15%	5.23%	0	0	20410	21301	2	2	108,100	130,685	54,900	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Thu 4	8	2.15%	20.43%	0.14%	5.43%	2.65%	20.50%	0.13%	4.87%	0	0	1506	21099	2	3	107,301	160,620	37,200	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Fri 5	8	1.80%	22.41%	0.14%	5.02%	2.50%	19.85%	0.16%	4.49%	0	0	30800	22600	3	4	105,390	152,685	35,600	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Sat 6																										
Sun 7	8	1.10%	19.60%	0.15%	5.12%	1.25%	18.88%	0.13%	5.54%	0	0	20180	21501	2	3	82,200	114,992	42,800	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Mon 8	8	1.85%	18.01%	0.16%	5.07%	1.28%	21.46%	0.14%	5.25%	0	0	19976	21399	4	6	112,100	147,304	48,400	3	0	0.00	0.00	8.00	8.00	8.00	8.00
Tue 9	8	1.95%	18.01%	0.16%	5.10%	1.25%	19.00%	0.15%	4.83%	0	0	21035	21859	1	4	90,499	154,000	41,200	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Wed 10	8	1.25%	21.37%	0.16%	5.04%	2.06%	21.28%	0.14%	5.06%	0	0	21556	20000	2	3	94,800	148,779	38,000	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Thu 11	8	1.30%	19.55%	0.15%	5.33%	1.10%	17.88%	0.14%	4.85%	0	0	20399	19699	2	3	92,001	152,434	35,800	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Fri 12	8	1.30%	17.44%	0.14%	5.08%	1.77%	18.01%	0.15%	4.71%	0	0	20545	21500	2	2	102,101	146,851	41,300	3	3	0.00	0.00	8.00	8.00	8.00	8.00
Sat 13																										
Sun 14																										
Mon 15	8	1.95%	18.56%	0.16%	5.03%	1.90%	18.75%	0.18%	6.09%	0	0	21529	20301	3	3	119,499	144,872	33,601	4	3	0.00	0.00	8.00	8.00	8.00	8.00
Tue 16	8	1.95%	20.76%	0.13%	4.89%	1.55%	18.38%	0.15%	5.43%	0	0	20580	21700	3	2	30,300	180,455	31,499	4	1	0.00	0.00	7.50	7.50	4.50	7.50
Wed 17	8				5.18%	2.25%	19.11%	0.17%	4.87%	0	0	16137	19999	3	3	90,000	178,887	40,500	3	2	7.00	7.00	1.00	8.00	8.00	8.00
Thu 18	8	1.60%	18.04%	0.14%	5.53%	1.30%	17.88%	0.15%	5.19%	0	0	19400	22500	3	3	88,599	162,030	31,000	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Fri 19	8	0.80%	17.03%	0.15%	5.08%	1.40%	19.20%	0.14%	4.64%	0	0	19736	21299	3	3	101,199	161,961	30,100	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Sat 20																										
Sun 21	8	2.25%	21.75%	0.15%	4.95%	1.68%	22.63%	0.13%	5.24%	0	0	20100	18600	3	2	101,200	128,589	35,800	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Mon 22	8	1.55%	19.98%	0.13%	5.08%	1.65%	20.31%	0.14%	5.22%	0	0	20488	20700	3	2	112,899	161,415	43,300	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Tue 23	8	0.95%	17.98%	0.15%	5.09%	1.35%	18.53%	0.16%	4.99%	0	0	17586	19500	2	2	112,500	147,958	35,200	3	3	0.00	0.00	7.50	7.50	7.50	7.50
Wed 24	8	1.80%	18.44%	0.15%	5.07%	2.10%	19.29%	0.14%	5.16%	0	0	17788	18801	2	2	132,900	164,836	38,299	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Thu 25	8	1.25%	20.25%	0.14%	5.07%	1.55%	20.65%	0.13%	5.41%	0	0	17170	20700	2	2	121,100	150,129	35,801	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Fri 26	8	1.80%	17.82%	0.16%	5.01%	2.21%	18.60%	0.14%	4.98%	0	0	18232	0	3	0	193,500	0	37,300	2	3	0.00	0.00	7.50	0.00	8.00	0.00
Sat 27																										
Sun 28	8	1.70%	18.12%	0.15%	4.98%				4.18%	0	0	9405	7499	1	1	109,600	154,595	63,099	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Mon 29	8	2.12%	19.57%	0.16%	4.87%	2.00%	19.16%	0.15%	4.27%	0	0	17957	20501	3	2	120,300	176,121	65,501	4	3	0.00	0.00	8.00	8.00	8.00	8.00
Tue 30	8	1.60%	20.59%	0.14%	5.43%				4.94%	0	0	5256	5799	1	1	121,199	234,713	20,901	2	1	0.00	0.00	4.00	4.00	8.00	8.00
Wed 31	10	1.75%	19.21%	0.15%	5.27%	2.30%	18.24%	0.14%	5.40%	0	0	24839	25101	4	3	83,401	243,986	39,600	3	1	0.00	0.00	10.00	10.00	10.00	10.00
	210	1.68%	19.34%	0.15%	5.11%	1.77%	19.44%	0.15%	5.05%	0	0	480222	498457	65	67	2,752,487	4,001,178	1,044,801	79	53	7.00	7.00	197.50	197.00	206.00	201.00
	Min:	0.80%	17.03%	0.13%	4.87%	1.10%	17.88%	0.13%	4.18%																	
	Max:	2.55%	22.41%	0.16%	5.53%	2.65%	22.63%	0.18%	6.09%	0	0	30800	25101	4	6	193,500	243,986	65,501	4	3	7.00	7.00	10.00	10.00	10.00	10.00

Numbers in Red Font are Lab Data

October 2012 Solids Operations Report

6 AM - 2 PM

Date	% Solids (I-3750-85) Feed	Cake	Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids (I-3750-85) Thickened	Filtrate	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Mon 1	3.33%	20.42%	0.16%	36,289	37.55	5.04	7.45	95.95%	16.00	0.31	0.24	3.93%	0.16%	174,099	24,200	86.10%	22.53	3.97	5.68	13.00	0.31	1.16
Tue 2	2.57%	19.22%	0.15%	42,329	37.55	4.54	8.28	94.90%	16.00	0.28	0.26	5.39%	0.15%	147,066	15,700	89.32%	15.02	3.53	4.26	13.00	0.27	0.92
Wed 3	2.57%	23.46%	0.13%	17,832	22.53	1.91	11.79	95.47%	14.50	0.13	0.10	6.82%	0.13%	153,294	16,800	89.04%	22.53	4.78	4.72	11.00	0.43	0.83
Thu 4	2.92%	20.51%	0.86%	46,517	37.55	5.66	6.63	73.64%	16.00	0.35	1.67	5.06%	0.86%	158,021	18,400	88.36%	22.53	3.68	5.80	13.00	0.30	5.67
Fri 5	1.94%	21.60%	0.11%	47,076	45.06	3.81	11.83	94.81%	16.00	0.24	0.22	4.70%	0.11%	161,762	14,700	90.91%	15.02	2.88	5.21	12.50	0.23	0.74
Sat 6	2.73%	18.23%	0.14%	41,479	45.06	4.72	9.54	95.61%	16.00	0.30	0.24	4.65%	0.14%	200,013	77,400	61.30%	37.55	15.01	2.50	16.00	0.94	1.17
Sun 7	1.50%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 8	2.22%	18.71%	0.14%	42,449	60.08	3.93	15.29	94.40%	16.00	0.25	0.25	5.10%	0.14%	157,500	17,100	89.14%	15.02	3.64	4.13	14.00	0.26	0.92
Tue 9	2.81%	19.44%	0.08%	45,905	45.06	5.38	8.38	97.55%	16.00	0.34	0.15	4.25%	0.08%	204,954	29,100	85.80%	22.53	5.16	4.37	6.00	0.86	0.68
Wed 10	2.34%	19.34%	0.15%	45,262	45.06	4.42	10.20	94.32%	16.00	0.28	0.28	5.60%	0.15%	172,204	26,200	84.79%	15.02	6.12	2.45	10.00	0.61	1.08
Thu 11	1.84%	20.97%	0.11%	44,750	45.06	3.43	13.12	94.52%	16.00	0.21	0.21	3.93%	0.11%	138,371	14,600	89.45%	15.02	2.39	6.28	8.00	0.30	0.63
Fri 12	1.99%	18.62%	0.11%	39,677	45.06	3.29	13.69	95.03%	16.00	0.21	0.18	3.46%	0.11%	199,403	23,000	88.47%	22.53	3.32	6.79	10.00	0.33	0.91
Sat 13	1.82%	20.70%	0.15%	21,010	22.53	1.59	14.13	92.43%	9.00	0.18	0.13	3.89%	0.15%	189,452	56,199	70.34%	37.55	9.12	4.12	12.00	0.76	1.19
Sun 14	1.82%	20.27%	0.16%	24,467	22.53	1.86	12.13	91.93%	8.00	0.23	0.16	5.22%	0.16%	209,186	57,900	72.32%	37.55	12.60	2.98	14.00	0.90	1.40
Mon 15	2.34%	18.98%	0.14%	42,923	37.55	4.19	8.97	94.72%	16.00	0.26	0.25	4.90%	0.14%	194,589	32,000	83.56%	15.02	6.53	2.30	16.00	0.41	1.14
Tue 16	1.96%	18.32%	0.14%	43,904	37.55	3.59	10.46	93.57%	16.00	0.22	0.26	4.11%	0.14%	162,817	42,401	73.96%	15.02	7.27	2.07	6.00	1.21	0.95
Wed 17	2.10%	18.47%	0.11%	44,629	52.57	3.91	13.45	95.33%	16.00	0.24	0.20	5.70%	0.11%	189,863	14,100	92.57%	22.53	3.35	6.72	16.00	0.21	0.87
Thu 18	1.31%	18.60%	0.18%	38,831	37.55	2.12	17.70	87.10%	16.50	0.13	0.29	3.92%	0.18%	318,966	21,100	93.38%	37.55	3.45	10.89	16.00	0.22	2.39
Fri 19	1.77%	18.31%	0.12%	41,220	45.06	3.04	14.81	93.84%	16.00	0.19	0.21	5.52%	0.12%	189,413	19,700	89.60%	7.51	4.53	1.66	13.00	0.35	0.95
Sat 20	2.52%	21.79%	0.16%	36,973	37.55	3.89	9.66	94.34%	16.00	0.24	0.25	3.94%	0.16%	225,416	63,900	71.65%	30.04	10.50	2.86	16.00	0.66	1.50
Sun 21	1.89%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 22	1.87%	19.53%	0.14%	42,598	45.06	3.32	13.57	93.18%	16.00	0.21	0.25	5.40%	0.14%	192,356	17,100	91.11%	15.02	3.85	3.90	13.00	0.30	1.12
Tue 23	1.79%	18.63%	0.14%	21,076	37.55	1.57	23.87	92.88%	16.00	0.10	0.12	4.96%	0.14%	194,675	22,300	88.55%	22.53	4.61	4.86	14.50	0.32	1.14
Wed 24	2.26%	19.07%	0.11%	43,269	45.06	4.08	11.05	95.68%	16.00	0.25	0.20	4.67%	0.11%	169,243	28,600	83.10%	7.51	5.57	1.35	12.00	0.46	0.78
Thu 25	2.04%	18.89%	0.13%	36,653	22.53	3.12	7.23	94.28%	15.00	0.21	0.20	6.76%	0.13%	188,479	13,499	91.99%	7.51	3.81	1.97	13.00	0.29	0.91
Fri 26	1.96%	16.14%	0.12%	9,198	15.02	0.75	19.98	94.58%	7.50	0.10	0.05	4.15%	0.12%	160,200	34,501	78.46%	22.53	5.97	3.77	7.00	0.85	0.80
Sat 27	2.42%	19.57%	0.10%	32,784	37.55	3.31	11.35	96.36%	16.00	0.21	0.14	3.62%	0.10%	194,339	44,400	77.15%	45.06	6.70	6.72	16.00	0.42	0.81
Sun 28	2.81%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 29	2.28%	19.06%	0.16%	59,579	52.57	5.66	9.28	93.77%	16.00	0.35	0.40	3.55%	0.16%	217,116	31,300	85.58%	30.04	4.63	6.48	16.00	0.29	1.45
Tue 30	2.32%	17.15%	0.12%	30,473	30.04	2.95	10.19	95.50%	14.00	0.21	0.15	4.70%	0.12%	128,144	2,500	98.05%	7.51	0.49	15.33	12.00	0.04	0.64
Wed 31	2.13%	19.34%	0.18%	41,777	37.55	3.71	10.12	92.41%	16.00	0.23	0.31	5.08%	0.18%	164,547	12,600	92.34%	7.51	2.67	2.81	13.00	0.21	1.24
Total =				1,080,949	1081.44	98.79	10.95	93.50%	420.50	6.47	7.37			5,135,488	791,300	84.59%	593.29	150.32	3.95	352.00	12.73	33.99
Average =	2.20%	19.41%	0.16%	34,224	34.89	3.19	11.93	93.50%	13.58	0.23	0.24	4.75%	0.16%	165,661	25,526	84.87%	19.14	5.37	4.75	11.35	0.45	1.21
Minimum =	1.31%	16.14%	0.08%	0	0.00	0.00	6.63	73.64%	0.00	0.10	0.00	3.46%	0.08%	0	0	61.30%	0.00	0.49	1.35	0.00	0.04	0.63
Maximum =	3.33%	23.46%	0.86%	59,579	60.08	5.66	23.87	97.55%	16.50	0.35	1.67	6.82%	0.86%	318,966	77,400	98.05%	45.06	15.01	15.33	16.00	1.21	5.67

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

October 2012 Solids Operations Report

6 AM - 2 PM

Date	Hours of Operation	Mix Tank Level	% Solids								BFP Sludge Processed				BFP Polymer				Thickn Sludge	GBT Polymer		Hours of Operation					
			1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Mon 1	8	9.06	2.15%	19.50%	0.12%	4.03%	1.45%	19.01%	0.12%	3.95%	0	0	17,388	18,901	2	3	61,400	112,699	24,200	2	1	0.00	0.00	8.00	8.00	6.50	6.50
Tue 2	8	8.29	1.65%	19.95%	0.14%	5.02%	1.55%	18.37%	0.14%		0	0	20,830	21,499	2	3	52,001	95,065	15,700	1	1	0.00	0.00	8.00	8.00	6.50	6.50
Wed 3	8	8.33					2.00%	23.04%	0.14%	4.60%	0	0	4,432	13,400	1	2	72,199	81,095	16,800	2	1	0.00	7.00	3.50	4.00	5.50	5.50
Thu 4	8	8.11	1.45%	19.39%	0.14%	4.35%	1.30%	19.84%	0.14%		0	0	21,917	24,600	3	2	59,900	98,121	18,400	2	1	0.00	0.00	8.00	8.00	6.00	7.00
Fri 5	8	9.13	0.65%	16.00%	0.16%	6.00%	1.50%	23.21%	0.14%	4.58%	0	0	26,176	20,900	4	2	69,009	92,753	14,700	1	1	0.00	0.00	8.00	8.00	6.00	6.50
Sat 6	8	9.61	2.40%	19.51%	0.15%	4.11%	0.50%	17.21%	0.14%	4.08%	0	0	21,149	20,330	3	3	73,001	127,012	77,400	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Sun 7																											
Mon 8	8	8.81	1.75%	18.11%	0.14%	4.43%	2.50%	18.45%	0.15%		0	0	19,649	22,800	2	6	66,400	91,100	17,100	2	0	0.00	0.00	8.00	8.00	7.00	7.00
Tue 9	8	9.37	1.60%	18.88%	0.14%	4.15%	1.90%	19.47%	0.14%	3.86%	0	0	23,098	22,807	3	3	79,600	125,354	29,100	2	1	0.00	0.00	8.00	8.00	3.00	3.00
Wed 10	8	8.97	0.90%	17.82%	0.16%	3.23%	1.50%	20.42%	0.15%	4.51%	0	0	22,382	22,900	3	3	67,099	105,105	26,200	1	1	0.00	0.00	8.00	8.00	5.00	5.00
Thu 11	8	8.43	1.55%	17.99%	0.16%	4.72%	1.55%	19.51%	0.15%		0	0	21,749	23,001	3	3	53,299	85,072	14,600	1	1	0.00	0.00	8.00	8.00	4.00	4.00
Fri 12	8	8.98	1.25%	18.59%	0.17%	3.04%	0.90%	17.61%	0.14%	4.19%	0	0	21,277	18,400	3	3	88,000	111,403	23,000	2	1	0.00	0.00	8.00	8.00	5.00	5.00
Sat 13	8			19.62%	0.14%	4.71%	1.60%	19.77%	0.14%	3.89%	0	0	20,511	499	2	1	87,599	101,853	56,199	3	2	0.00	0.00	8.00	1.00	6.00	6.00
Sun 14	8	9.15	1.30%	18.46%	0.12%	4.38%	1.55%	19.83%	0.12%	4.68%	0	0	24,467	0	1	2	119,301	89,885	57,900	2	3	0.00	0.00	8.00	0.00	7.00	7.00
Mon 15	8	8.82	1.25%	17.88%	0.16%	4.54%	1.05%	18.58%	0.14%	4.11%	0	0	20,023	22,900	2	3	137,000	57,589	32,000	0	2	0.00	0.00	8.00	8.00	8.00	8.00
Tue 16	8	7.28	1.30%	18.34%	0.15%	4.09%	2.00%	17.43%	0.14%	3.95%	0	0	21,204	22,700	2	3	0	162,817	42,401	2	0	0.00	0.00	8.00	8.00	0.00	6.00
Wed 17	8	8.08	1.50%	17.44%	0.14%	5.95%	1.50%	17.92%	0.14%	5.88%	0	0	20,828	23,801	3	4	62,901	126,962	14,100	2	1	8.00	8.00	0.00	0.00	8.00	8.00
Thu 18	8	9.06	1.20%	17.24%	0.15%	3.61%	0.55%	18.57%	0.14%	4.22%	0	0	15,931	22,900	2	3	119,101	199,865	21,100	3	2	0.00	0.50	8.00	8.00	8.00	8.00
Fri 19	8	7.94	2.85%	18.11%	0.14%	4.88%	1.45%	18.05%	0.14%	5.19%	0	0	20,319	20,901	3	3	74,401	115,012	19,700	1	0	0.00	0.00	8.00	8.00	6.50	6.50
Sat 20	8	9.97	1.95%	19.09%	0.15%	4.36%	1.70%	22.23%	0.14%	5.12%	0	0	17,773	19,200	2	3	79,800	145,616	63,900	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Sun 21																											
Mon 22	8	8.69	1.35%	18.07%	0.12%	5.27%	2.85%	20.41%	0.14%	6.36%	0	0	18,598	24,000	4	2	80,901	111,455	17,100	1	1	0.00	0.00	8.00	8.00	6.50	6.50
Tue 23	8	8.82	0.85%	17.74%	0.12%	4.38%	1.80%	18.43%	0.14%	4.67%	0	0	19,177	1,899	3	2	82,900	111,775	22,300	2	1	0.00	0.00	8.00	8.00	7.00	7.50
Wed 24	8	7.83	1.35%	19.03%	0.14%	3.84%	0.70%	17.76%	0.14%		0	0	19,769	23,500	3	3	76,900	92,343	28,600	1	0	0.00	0.00	8.00	8.00	6.00	6.00
Thu 25	8	7.46	1.35%	18.37%	0.16%	5.58%	1.05%	17.76%	0.14%		0	0	17,553	19,100	2	1	72,500	95,979	13,499	1	0	0.00	0.00	8.00	7.00	6.50	6.50
Fri 26	8	10.04	1.05%	16.66%	0.16%	4.85%				4.35%	0	0	9,198	0	2	0	160,200	0	34,501	2	1	0.00	0.00	7.50	0.00	7.00	0.00
Sat 27	8	9.34	1.85%	19.00%	0.12%	3.57%	1.30%	18.56%	0.14%	4.51%	0	0	16,484	16,300	3	2	84,700	109,639	44,400	3	3	0.00	0.00	8.00	8.00	8.00	8.00
Sun 28																											
Mon 29	8	7.63	0.70%	18.93%	0.14%	4.05%	1.10%	19.22%	0.14%	3.85%	0	0	34,779	24,800	3	4	89,000	128,116	31,300	2	2	0.00	0.00	8.00	8.00	8.00	8.00
Tue 30	8	7.72	2.70%	18.32%	0.16%	4.15%	1.10%	16.34%	0.15%		0	0	14,073	16,400	2	2	0	128,144	2,500	1	0	0.00	0.00	7.00	7.00	6.00	6.00
Wed 31	8	7.57	1.25%	17.57%	0.14%	4.84%	1.70%	18.60%	0.14%		0	0	20,477	21,300	3	2	66,000	98,547	12,600	1	0	0.00	0.00	8.00	8.00	6.50	6.50
	224		1.51%	18.36%	0.14%	4.45%	1.47%	19.10%	0.14%	4.53%	0	0	551,211	509,738	71	73	2,135,112	3,000,378	791,300	48	31	8.00	15.50	210.00	187.00	175.50	176.50
		7.28	0.65%	16.00%	0.12%	3.04%	0.50%	16.34%	0.12%	3.85%																	
		10.04	2.85%	19.95%	0.17%	6.00%	2.85%	23.21%	0.15%	6.36%	0	0	34,779	24,800	4	6	160,200	199,865	77,400	3	3	8.00	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

October 2012 Solids Operations Report

2 PM - 10 PM

Date	% Solids Feed (I-3750-85)	% Solids Cake (I-3750-85)	% Solids Filtrate (I-3750-85)	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened (I-3750-85)	GBT % Solids Filtrate (I-3750-85)	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Mon 1	3.33%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 2	2.57%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 3	2.57%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 4	2.92%		0.86%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 5	1.94%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 6	2.73%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 7	1.50%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 8	2.22%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 9	2.81%		0.08%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 10	2.34%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 11	1.84%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 12	1.99%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 13	1.82%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 14	1.82%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 15	2.34%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 16	1.96%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 17	2.10%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 18	1.31%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 19	1.77%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 20	2.52%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 21	1.89%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 22	1.87%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 23	1.79%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 24	2.26%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 25	2.04%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 26	1.96%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 27	2.42%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 28	2.81%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 29	2.28%	19.06%	0.16%	53,225	52.57	5.06	10.39	93.77%	21.00	0.24	0.36	3.55%	0.16%	47,382	4,699	90.08%	7.51	0.70	10.80	6.00	0.12	0.32
Tue 30	2.32%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 31	2.13%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				53,225	52.57	5.06	10.39	93.77%	21.00	0.24	0.36			47,382	4,699	90.08%	7.51	0.70	10.80	6.00	0.12	0.32
Average =	2.20%	19.06%	0.16%	1,717	1.70	0.16	10.39	93.77%	0.68	0.24	0.01	3.55%	0.16%	1,528	152	90.08%	0.24	0.70	10.80	0.19	0.12	0.32
Minimum =	1.31%	19.06%	0.08%	0	0.00	0.00	10.39	93.77%	0.00	0.24	0.00	3.55%	0.16%	0	0	90.08%	0.00	0.70	10.80	0.00	0.12	0.32
Maximum =	3.33%	19.06%	0.86%	53,225	52.57	5.06	10.39	93.77%	21.00	0.24	0.36	3.55%	0.16%	47,382	4,699	90.08%	7.51	0.70	10.80	6.00	0.12	0.32

$$\% \text{ Solids Recovery} = \frac{(\%\text{cake})(\%\text{feed} - \%\text{filtrate})}{(\%\text{feed})(\%\text{cake} - \%\text{filtrate})}$$

October 2012 Solids Operations Report

2 PM - 10 PM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Mon 1																										
Tue 2																										
Wed 3																										
Thu 4																										
Fri 5																										
Sat 6																										
Sun 7																										
Mon 8																										
Tue 9																										
Wed 10																										
Thu 11																										
Fri 12																										
Sat 13																										
Sun 14																										
Mon 15																										
Tue 16																										
Wed 17																										
Thu 18																										
Fri 19																										
Sat 20																										
Sun 21																										
Mon 22																										
Tue 23																										
Wed 24																										
Thu 25																										
Fri 26																										
Sat 27																										
Sun 28																										
Mon 29	8	1.40%	16.37%	0.14%		0.70%	19.87%	0.15%		0	0	26,125	27,100	4	3	3,000	44,382	4,699	1	0	6.00	0.00	7.50	7.50	3.00	3.00
Tue 30																										
Wed 31																										
	8	1.40%	16.37%	0.14%		0.70%	19.87%	0.15%		0	0	26,125	27,100	4	3	3,000	44,382	4,699	1	0	6.00	0.00	7.50	7.50	3.00	3.00
	Min:	1.40%	16.37%	0.14%	0.00%	0.70%	19.87%	0.15%	0.00%																	
	Max:	1.40%	16.37%	0.14%	0.00%	0.70%	19.87%	0.15%	0.00%	0	0	26,125	27,100	4	3	3,000	44,382	4,699	1	0	6.00	0.00	7.50	7.50	3.00	3.00

Numbers in Red Font are Lab Data

October 2012 Sludge Inventory Report

Date	Pumped from PSTs to Pri. Dig. (gal)	Pumped from PSTs to Mix Tank (gal)	Pumped from PSTs Total (gal)	Thickened Sludge to Pri. Dig. (gal)	Secondary Sludge to Mix Tank (gal)	Dig 1 (in.)	Dig 2 (in.)	Dig 3 (in.)	Mix Tank (in.)	Dig 4 (in.)	Dig 5 (in.)	Pri.Dig.Sldg. Inventory (gal)	Sec.Dig.Sldg. Inventory (gal)	Transfer (calculated) (gal)	Supernated (gal)	Pressed (gal)	Mix Tank Overflow Potential Calculated (gal)
									0			222,750	189,750				
Mon 1	0	102,297	102,297	71,900	345,000	24	24	39	109	31	29	500,850	165,000	0	0	76,206	0
Tue 2	0	136,271	136,271	56,100	223,000	41	30	22	99	27	27	493,350	148,500	63,600	0	84,523	0
Wed 3	0	110,827	110,827	71,700	311,000	25	42	28	100	23	30	501,250	145,750	63,800	0	59,543	0
Thu 4	0	102,401	102,401	55,600	316,000	39	27	21	97	36	22	472,050	159,500	84,800	0	69,122	0
Fri 5	0	101,674	101,674	50,300	65,000	17	39	27	110	21	18	492,250	107,250	30,100	0	100,476	0
Sat 6	0	102,776	102,776	77,400	123,000	33	21	40	115	26	18	534,500	121,000	35,150	0	41,479	0
Sun 7	0	103,802	103,802	42,800	284,000	42	26	21	0	25	22	244,750	129,250	332,550	0	41,681	0
Mon 8	0	101,111	101,111	65,500	311,000	211	30	29	106	40	20	996,900	165,000	0	0	83,824	0
Tue 9	0	99,079	99,079	70,300	301,000	42	24	19	112	23	15	502,550	104,500	564,650	0	88,799	0
Wed 10	0	101,591	101,591	64,200	302,000	30	49	20	108	13	12	531,450	68,750	35,300	0	86,838	0
Thu 11	0	100,948	100,948	50,400	270,000	37	17	30	101	9	7	473,400	44,000	108,450	0	84,848	0
Fri 12	0	100,957	100,957	64,300	112,000	21	40	16	108	9	6	470,950	41,250	66,750	0	81,722	0
Sat 13	0	100,159	100,159	56,199	126,000	57	21	16	0	14	12	258,500	71,500	268,649	0	21,010	0
Sun 14	0	101,329	101,329	57,900	289,000	27	22	37	110	15	15	500,500	82,500	0	0	24,467	0
Mon 15	0	101,701	101,701	65,601	252,000	28	36	19	106	21	11	482,650	88,000	83,451	0	84,753	0
Tue 16	0	102,147	102,147	73,900	322,000	24	18	38	87	21	15	428,800	99,000	127,750	0	86,184	0
Wed 17	0	101,277	101,277	54,600	374,000	36	24	19	97	15	23	450,050	104,500	33,350	0	80,765	0
Thu 18	0	101,716	101,716	52,100	442,000	16	21	32	109	15	7	451,350	60,500	50,800	0	80,731	0
Fri 19	0	143,707	143,707	49,800	114,000	18	24	33	95	9	7	434,250	44,000	66,900	0	82,255	0
Sat 20	15,375	85,360	100,735	63,900	162,000	25	26	17	120	13	28	475,000	112,750	38,525	0	36,973	95,744
Sun 21	0	101,384	101,384	35,800	303,000	43	25	16	0	7	20	231,000	74,250	279,800	0	38,700	0
Mon 22	0	101,295	101,295	60,400	344,000	19	39	23	104	9	10	472,350	52,250	0	0	83,786	0
Tue 23	0	101,788	101,788	57,500	326,000	27	15	38	106	8	6	474,400	38,500	55,450	0	58,162	0
Wed 24	0	102,241	102,241	66,899	324,000	24	38	18	94	8	9	445,600	46,750	95,699	0	79,858	0
Thu 25	0	100,770	100,770	49,300	294,000	18	18	27	90	14	9	389,250	63,250	105,650	0	74,523	0
Fri 26	0	99,779	99,779	71,801	53,000	36	18	20	120	14	18	491,500	88,000	0	0	27,430	0
Sat 27	0	123,692	123,692	44,400	163,000	21	33	19	112	17	14	469,550	85,250	66,350	0	32,784	73,953
Sun 28	23,284	141,436	164,720	63,099	231,000	28	28	30	0	23	23	236,500	126,500	319,433	0	16,904	0
Mon 29	0	222,110	222,110	101,500	366,000	26	16	32	92	39	27	424,300	181,500	0	0	151,262	0
Tue 30	0	209,196	209,196	23,401	296,000	24	16	37	93	23	22	434,950	123,750	12,751	0	41,528	0
Wed 31	0	201,588	201,588	52,200	234,000	18	33	18	91	26	12	408,150	104,500	79,000	0	91,717	0
	38,659	3,606,409	3,645,068	1,840,800	7,978,000									3,068,708	0	2,092,853	169,697
Ave:	1,247	116,336	117,583	59,381	257,355							457,190	98,290	98,991	0	67,511	5,474
Min:	0	85,360	99,079	23,401	53,000							231,000	38,500	0	0	16,904	0
Max:	23,284	222,110	222,110	101,500	442,000							996,900	181,500	564,650	0	151,262	95,744

Transfer = (change in Primary Sludge Inventory) + (sludge pumped from PSTs to Pri. Dig.) + (Thickened Sludge pumped to Pri. Dig.)

Mix Tank Overflow Potential = (change in Mix Tank level) + gallons from PSTs + secondary sludge (350 gpm) - GBT feed

October 2012 Soluble Sulfides Report

	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	Sludge Processed BFPs	GBTs
1-Oct							76,206	421,602
2-Oct							84,523	421,643
3-Oct							59,543	392,079
4-Oct							69,122	425,942
5-Oct							100,476	419,837
6-Oct							41,479	200,013
7-Oct							41,681	197,192
8-Oct							83,824	416,904
9-Oct							88,799	449,453
10-Oct							86,838	415,783
11-Oct							84,848	382,806
12-Oct							81,722	448,355
13-Oct							21,010	189,452
14-Oct							24,467	209,186
15-Oct							84,753	458,960
16-Oct							86,184	373,572
17-Oct							80,765	458,750
18-Oct							80,731	569,595
19-Oct							82,255	452,573
20-Oct							36,973	225,416
21-Oct							38,700	229,789
22-Oct							83,786	466,670
23-Oct							58,162	455,133
24-Oct							79,858	466,979
25-Oct							74,523	439,708
26-Oct							27,430	353,700
27-Oct							32,784	194,339
28-Oct							16,904	264,195
29-Oct							151,262	560,919
30-Oct							41,528	484,056
31-Oct							91,717	491,934
Ave:	N/A	N/A	N/A	N/A	N/A	N/A		
Min:	0.000	0.000	0.000	0.000	0.000	0.000		
Max:	0.000	0.000	0.000	0.000	0.000	0.000		

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	06/01/2012	TO	06/30/2012

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	77	******		0	DAILY	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	5.5	******	******		0	7/DAILY	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	7.9		0	DAILY	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1418	1393		******	12	13		0	DAILY	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	343	******		******	2.6	******		0	DAILY	COMP24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	14.20	22.28		******	******	******	******	0	CONTIN UOUS	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.04	******		0	2/SHIFT	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	(610)655-6258		7/17/2012
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

MAX WEEKLY AVERAGE IS LOWER THAN MONTHLY AVERAGE DUE TO THE 1ST AND 2ND NOT INCLUDED IN THE WEEKLY AVERAGES FOR JUNE.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		**MM/DD/YYYY**
FROM	06/01/2012	**TO**	06/30/2012

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	< 0.01240	******		******	< 0.00010	******		0	WEEKLY	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	14	******		0	DAILY	GRAB
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	200 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1198	1225		******	10	11		0	DAILY	COMP24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	(610) 655-6258		7/17/2012
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NONE

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* June 2012

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	TOTAL	=	0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 19.74	X 0.01	= 0.00
0.00	X 19.74	X 0.01	= 0.00
0.00	X 19.74	X 0.01	= 0.00
1,127.73	X 19.74	X 0.01	= 222.61
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	TOTAL	=	222.61

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	222.61
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

07/20/12
Date

AM 7/18/12

City of Reading 3-C Watershed *for the Month* June 2012

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

	June 2012					City of Reading Wastewater Treatment Plant								
	Final Effluent								preSO2		COLOR		Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC	FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L	#/100ml	Pt-Co	inches	(°F)	(°F)
1-Jun	21.6	26	14	19	11.4	22.28	6.3	7.5	0.29		85	1.41	53	75
2-Jun	20.3	13	9	10	2.4	18.82	5.5	7.3			50	0.26	53	73
3-Jun	19.9	10	8	9	1.4	16.65	7.0	7.5	0.80		60	0.08	49	74
4-Jun	19.9	13	8	13	4.5	17.87	6.8	7.4	0.85		65	0.39	53	69
5-Jun	20.6	15	9	12	5.8	14.47	6.2	7.4	0.80		75	0.00	48	71
6-Jun	20.9	15	9	10	6.8	14.56	6.9	7.9	0.59		75	0.01	46	75
7-Jun	20.5	22	10	10	5.8	15.53	6.5	7.3	0.57		75	0.02	52	79
8-Jun	21.0	20	12	10	3.2	14.53	6.7	7.4	0.44		75	0.00	52	84
9-Jun	20.9	16	12	9	2.9	13.39	6.4	7.3	0.70		75	0.00	54	86
10-Jun	21.7	12	8	8	1.2	12.90	6.5	7.4	0.57		75	0.00	59	91
11-Jun	21.7	15	9	9	1.7	13.77	6.6	7.4	0.52		75	0.00	65	84
12-Jun	22.2	22	11	13	5.5	18.36	6.2	7.3	0.4		85	0.66	66	70
13-Jun	20.5	18	11	11	2.2	14.26	6.4	7.4	0.71		75	0.00	62	79
14-Jun	21.8	12	9	11	1.6	13.96	6.6	7.4	0.53		75	0.00	54	78
15-Jun	21.9	11	8	13	0.8	12.86	6.6	7.4	0.32		75	0.00	55	82
16-Jun	21.1	10	7	11	0.6	12.03	6.6	7.4	0.15		75	0.00	53	82
17-Jun	21.2	15	12	11	0.6	12.41	6.8	7.5	0.20		75	0.00	53	74
18-Jun	21.6	13	11	11	2.8	14.10	6.7	7.4	0.36		75	0.00	55	69
19-Jun	21.9	11	9	12	1.1	13.47	6.6	7.4	0.58		83	0.01	63	84
20-Jun	24.0	16	10	20	0.5	13.19	6.4	7.5	0.47		75	0.00	64	93
21-Jun	22.5	15	12	10	0.7	14.01	6.4	7.5	0.30		85	0.00	66	93
22-Jun	22.5	18	12	11	2.9	11.63	6.3	7.5	0.11		85	0.01	69	89
23-Jun	21.1	20	12	15	3.9	12.29	6.1	7.6	0.56		85	0.00	60	84
24-Jun	20.6	14	12	11	1.6	12.03	6.1	7.3	0.63		75	0.00	56	85
25-Jun	20.9	14	10	8	0.7	12.98	6.1	7.5	0.50		75	0.06	60	79
26-Jun	20.4	16	11	14	0.5	12.32	6.8	7.6	0.24		85	0.00	53	77
27-Jun	20.0	20	11	20	0.3	12.52	7.1	7.4	0.38		85	0.00	50	82
28-Jun	21.7	10	7	11	0.8	13.72	6.6	7.3	0.67		85	0.00	56	89
29-Jun	22.5	5	4	10	2.6	12.90	6.2	7.3	0.58		85	0.24	67	95
30-Jun	22.3	21	16	15	1.6	12.16	6.1	7.3	0.94		85	0.02	66	88
						See DO profile and Fecal profile								
TOTAL		458	303	357	78.5	426.0	###	222.8	16.13		2308	3.17		
Week 1	20.5	16	10	10	5.4	17.17	6.45	7.46	0.76		69	0.31	51	74
Week 2	21.4	14	9	11	2.6	14.45	6.49	7.37	0.55		76	0.09	59	82
Week 3	22.0	15	11	13	1.0	13.15	6.58	7.44	0.34		78	0.00	58	82
Week 4	21.0	14	10	13	1.5	12.50	6.44	7.46	0.44		82	0.01	58	84
Monthly	21.3	15	10	12	2.6	14.20	6.47	7.43			77	0.11	57	81
Weekly averages: 6/3-9, 6/10-16, 6/17-23 and 6/24-30. June 1st and 2nd were included in the May weekly averages.														
Min =	19.9	5	4	8	0.3	11.63	5.5	7.3	0.11		50	0.00	46	69
Max =	24.0	26	16	20	11.4	22.28	7.1	7.9	1.39		85	1.41	69	95
	<													
DISCHARGE LIMITATIONS														
Ave Monthly:			20	30	6		Min	6.0		200	186			
Ave Weekly:			30	45			of	to						
Inst. Max:			40	60	12		5.0	9.0			465			

Print Date: 7/20/2012

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Jun	9,231	53,778	63,009	-3,920		59,089	4,831	2,601	8,720	56,269	64,989	9,708	74,698	3,530	866	825	2,359	3184	1,907	3,485	5,091	2,118
2-Jun	6,038	36,481	42,519	2,645		45,164	2,040	1,413	5,495	28,801	34,295	7,310	41,605	1,570	1,436	552	1,472	2,025	781	1,739	2,806	380
3-Jun	5,721	45,246	50,967	-8,786	348	42,182	1,389	1,111	5,154	57,380	62,534	-12,637	49,898	1,250	2,175	588	1,614	2,202	1,630	2,995	3,832	189
4-Jun	6,211	46,083	52,294	-9,433		42,861	1,937	1,192	7,228	30,650	37,879	-6,001	31,878	1,937	2,552	669	1,768	2,438	2,237	7,588	4,675	663
5-Jun	5,479	52,435	57,915	-2,831		55,084	1,810	1,086	5,650	294,722	300,372	-254,928	45,444	1,448	1,621	577	1,465	2,042	2,434	5,912	4,476	705
6-Jun	5,340	40,989	46,329	-6,092		40,237	1,821	1,093	7,052	30,928	37,981	5,097	43,077	1,214	2,565	650	1,518	2,168	1,761	8,831	3,929	820
7-Jun	6,643	44,568	51,211	-4,273	570	46,938	2,849	1,295	6,620	293,012	299,632	-256,684	42,948	1,295	806	549	1,574	2,124	1,596	5,019	3,720	754
8-Jun	4,366	44,421	48,788	-17,938		30,850	2,424	1,454	5,240	168,076	173,316	-149,093	24,223	1,212	1,419	507	1,469	1,976	1,155	5,338	3,131	390
9-Jun	2,495	31,158	33,654	-6,497		27,157	1,787	1,340	2,359	125,879	128,239	-101,886	26,352	1,005	195	490	1,340	1,830	393	3,692	2,223	327
10-Jun	4,484	40,696	45,180	-10,120	193	35,060	1,291	861	5,192	36,626	41,819	-7,223	34,596	861	251	522	1,646	2,168	1,268	5,288	3,436	127
11-Jun	5,485	45,528	51,013	-5,792		45,221	1,723	1,034	5,050	25,427	30,477	6,992	37,469	1,034	1,263	520	1,641	2,161	1,295	5,692	3,456	194
12-Jun	6,625	45,186	51,811	-6,034		45,778	3,369	1,684	6,404	31,105	37,509	5,747	43,257	1,991	2,279	571	1,660	2,232	1,683	7,677	3,914	839
13-Jun	4,554	38,874	43,428	-6,663		36,765	2,141	1,308	5,074	23,505	28,580	2,133	30,713	1,308	2,621	620	1,727	2,347	859	7,616	3,206	266
14-Jun	4,925	45,233	50,158	-3,465	330	46,692	1,397	1,048	5,400	28,358	33,758	2,510	36,268	1,281	1,572	529	1,731	2,260	791	4,536	3,051	187
15-Jun	4,519	50,830	55,348	-15,482		39,867	1,180	858	4,161	31,704	35,865	-7,144	28,721	1,394	1,741	528	1,835	2,363	563	2,456	2,926	90
16-Jun	5,229	33,540	38,769	-3,066		35,703	1,003	702	7,498	16,160	23,659	8,956	32,615	1,104	919	543	1,662	2,205	-34	2,213	2,171	65
17-Jun	6,283	48,584	54,866	-7,391	329	47,475	1,552	1,242	5,634	33,583	39,217	-1,447	37,769	1,138	1,789	559	1,841	2,400	1,144	5,260	3,545	66
18-Jun	5,681	41,937	47,618	-3,615		44,003	1,529	1,294	5,248	18,872	24,119	8,013	32,132	1,294	1,654	559	1,653	2,213	1,522	5,983	3,735	326
19-Jun	4,519	47,078	51,596	-105		51,491	1,236	1,011	5,254	58,343	63,597	-2,228	61,369	1,348	488	519	1,673	2,192	1,328	4,348	3,520	121
20-Jun	4,519	38,431	42,949	4,939		47,888	1,760	1,100	5,590	11,956	17,547	17,997	35,544	2,200	499	492	1,435	1,927	1,553	6,570	3,480	53
21-Jun	4,562	41,316	45,877	-1,427	229	44,451	1,753	1,402	5,336	25,295	30,631	7,046	37,677	1,168	569	540	1,788	2,328	742	4,981	3,069	77
22-Jun	3,936	48,539	52,475	-4,197		48,279	1,746	1,164	4,369	34,463	38,832	-3,025	35,807	1,067	358	514	1,691	2,204	1,255	7,116	3,460	276
23-Jun	4,286	31,583	35,868	-1,557		34,311	2,050	1,230	5,103	25,590	30,693	8,058	38,751	1,537	219	526	1,741	2,267	498	4,149	2,765	402
24-Jun	4,504	33,066	37,570	-2,812	269	34,758	1,405	1,204	4,363	22,674	27,038	2,389	29,426	1,104	243	524	1,638	2,162	563	3,806	2,725	165
25-Jun	5,893	55,793	61,686	-25,550		36,136	1,516	1,083	4,561	29,336	33,898	917	34,814	866	452	529	2,061	2,590	1,597	5,731	4,187	80
26-Jun	5,004	31,917	36,921	-5,821		31,100	1,644	1,130	4,844	42,160	47,004	-8,930	38,074	1,438	304	534	1,529	2,063	651	3,928	2,714	54
27-Jun	4,081	34,222	38,303	-7,020		31,283	2,088	1,149	4,314	20,696	25,010	6,475	31,485	2,088	785	523	1,687	2,209	778	7,118	2,987	35
28-Jun	2,450	20,636	23,087	5,218	164	28,305	1,144	801	4,184	27,687	31,872	-11,324	20,547	1,259	304	454	1,608	2,062	1,135	4,883	3,197	90
29-Jun	5,613	20,433	26,046	8,486		34,532	538	430	9,027	24,847	33,873	-5,201	28,672	1,076	307	582	1,520	2,102	1,016	6,957	3,118	276
30-Jun	5,086	35,541	40,627	-5,781		34,846	2,130	1,623	5,361	25,116	30,477	-4,393	26,084	1,521	5	575	2,069	2,644	-729	111	1,916	166
TOTAL	153,761	1,224,122	1,377,884	-154,378	2,433	1,223,505	55,082	35,943	165,489	1,679,220	1,844,710	-732,797	1,111,913	42,539	32,257	16,673	50,414	67,087	33,374	151,016	100,461	10,303
Week 1	6,380	45,654	52,035	-4,670	459	47,365	2,003	1,225	6,560	113,109	119,669	-72,591	47,078	1,337	1,717	630	1,682	2,312	1,764	5,081	4,075	804
Week 2	4,705	41,585	46,290	-8,073	262	38,218	1,729	1,071	4,960	62,711	67,671	-34,403	33,268	1,282	1,372	537	1,602	2,139	1,063	5,691	3,202	333
Week 3	5,044	43,102	48,146	-3,735	279	44,411	1,661	1,206	5,532	27,987	33,519	4,456	37,975	1,393	1,094	534	1,698	2,232	974	4,544	3,207	114
Week 4	4,308	36,537	40,844	-5,963	217	34,882	1,495	1,060	4,534	28,944	33,478	-777	32,701	1,336	381	515	1,708	2,223	925	5,247	3,148	157
Monthly	5,125	40,804	45,929	-5,146	304	40,784	1,836	1,198	5,516	55,974	61,490	-24,427	37,064	1,418	1,075	556	1,680	2,236	1,112	5,034	3,349	343
Min =	2450	20433	23087	-25550	164	27,157	538	430	2,359	11,956	17,547	-256,684	20,547	861	5	454	1,340	1,830	-729	111	1,916	35
Max =	9231	55793	63009	8486	570	59,089	4,831	2,601	9,027	294,722	300,372	17,997	74,698	3,530	2,621	825	2,359	3,184	2,434	8,831	5,091	2,118
								Max weekly average is lower than monthly average due to the 1st and 2nd not included in the weekly averages for June.														
								3,336						7,130								1,000
								5,004						10,606								

Print Date: 7/20/2012

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Jun								
2-Jun								
3-Jun								
4-Jun								
5-Jun	< 0.00010	< 0.00244	0.00010	0.00904	0.00020	0.02295	< 0.00010	< 0.01207
6-Jun								
7-Jun	0.00010	0.00225	0.00060	0.05690	0.00020	0.02347	< 0.00010	< 0.01295
8-Jun								
9-Jun								
10-Jun								
11-Jun								
12-Jun	< 0.00010	< 0.00276	0.00010	0.01051	< 0.00010	< 0.01327	< 0.00010	< 0.01531
13-Jun								
14-Jun								
15-Jun								
16-Jun								
17-Jun								
18-Jun								
19-Jun	< 0.00010	< 0.00210	< 0.00010	< 0.00841	0.00030	0.03153	< 0.00010	< 0.01123
20-Jun								
21-Jun								
22-Jun								
23-Jun								
24-Jun								
25-Jun								
26-Jun								
27-Jun	< 0.00010	< 0.00194	< 0.00010	< 0.00815	< 0.00010	< 0.01009	< 0.00010	< 0.01044
28-Jun								
29-Jun								
30-Jun								
Total	0.00050	0.01149	0.00100	0.09300	0.00090	0.10131	0.00050	0.06201
Week 1	< 0.00010	< 0.00234	0.00035	0.03297	0.00020	0.02321	< 0.00010	< 0.01251
Week 2	< 0.00010	< 0.00276	0.00010	0.01051	< 0.00010	< 0.01327	< 0.00010	< 0.01531
Week 3	< 0.00010	< 0.00210	< 0.00010	< 0.00841	0.00030	0.03153	< 0.00010	< 0.01123
Week 4	< 0.00010	< 0.00194	< 0.00010	< 0.00815	< 0.00010	< 0.01009	< 0.00010	< 0.01044
Monthly	0.00010	0.00230	0.00020	0.01860	0.00018	0.02026	< 0.00010	< 0.01240
Min =	< 0.00010	< 0.00194	< 0.00010	< 0.00815	< 0.00010	< 0.01009	< 0.00010	< 0.01044
Max =	0.00010	0.00276	0.00060	0.05690	0.00030	0.03153	< 0.00010	< 0.01531
							0.00023	0.055
							0.00046	

	June 2012				City of Reading Wastewater Treatment Plant																	Laboratory Process Control Data									
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent						
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jun	235	222	7.8	21.0	367	384	7.2	16.1	339	350	17.1	-21	52	10.3	318	402	27.4	7.4	4.6	20.7	22.28	190	53	23.7	0.1	6.7	45	27	23.9	300	3.1	7.4	28	15
2-Jun	200	182	7.6	18.3	342	270	7.5	13.8	311	251	14.8	19	53	5.7	330	304	20.5	7.4	12.7	19.6	16.41	170	51	16.3	5.7	7.0	19	13	13.4		0.3	7.3	24	19
3-Jun	222	200	7.6	22.8	440	558	7.3	15.7	396	486	17.1	-68	-98	12.7	328	388	29.8	7.1	5.8	20.2	15.42	200	53	20.7	0.1	6.8	26	24	14.7		3.3	7.2	22	13
4-Jun	232	270	7.7	25.0	430	286	7.2	16.5	390	283	18.2	-70	-45	16.7	320	238	34.9	7.0	6.1	20.8	16.06	212	75	24.0	0.1	6.8	31	39	19.1	280	2.9	7.4	23	27
5-Jun	225	232	7.8	23.7	580	3260	7.2	16.2	505	2617	17.8	-25	-2221	21.2	480	396	39.0	7.7	7.2	20.9	13.76	260	65	28.0	0.2	6.8	34	37	20.1		2.6	7.4	26	21
6-Jun	212	280	7.8	25.8	440	332	7.4	16.3	391	321	18.3	-51	43	14.9	340	364	33.2	7.3	6.4	20.6	14.19	205	68	27.5	0.1	6.7	29	31	21.7	320	0.1	7.3	22	18
7-Jun	295	294	7.8	24.4	470	3090	7.2	16.6	436	2553	18.1	-36	-2187	13.6	400	366	31.7	7.1	5.4	20.4	14.07	290	49	25.1	0.1	6.8	33	30	19.2		3.0	7.4	24	12
8-Jun	185	222	7.7	21.5	490	1854	7.1	16.2	427	1517	17.3	-157	-1305	10.1	270	212	27.4	7.2	6.2	20.4	13.70	218	40	27.3	0.1	6.8	28	27	18.8	320	4.3	7.3	29	15
9-Jun	110	104	7.7	21.6	400	1616	7.2	17.2	335	1275	18.2	-65	-1013	3.9	270	262	22.1	7.0	4.2	21.6	12.06	185	47	23.3	0.1	6.7	20	19	18.1		0.5	7.3	20	17
10-Jun	190	220	7.7	22.1	440	396	7.2	17.8	389	360	18.7	-87	-62	10.9	302	298	29.6	7.0	4.9	20.6	13.92	180	44	22.6	0.1	6.8	27	37	17.9		2.9	7.1	19	17
11-Jun	252	232	7.5	23.9	530	296	7.1	19.1	474	283	20.1	-54	65	12.0	420	348	32.1	7.4	5.7	22.3	12.91	258	63	29.2	0.3	6.7	34	35	19.2	300	3.3	7.4	23	17
12-Jun	240	232	7.7	20.7	430	296	6.9	15.8	390	283	16.8	-45	43	12.7	345	326	29.5	6.8	6.9	21.9	15.91	222	60	23.9	0.2	6.7	61	58	19.6		0.9	7.4	28	21
13-Jun	210	234	7.7	28.6	430	260	7.4	19.1	387	255	20.9	-59	19	7.7	328	274	28.6	7.2	8.2	21.9	13.44	202	54	26.7	0.1	6.8	34	31	19.5	280	2.0	7.4	26	16
14-Jun	228	250	7.7	24.5	520	326	7.0	19.9	462	311	20.8	-32	23	7.3	430	334	28.1	7.1	2.2	21.2	13.02	228	53	24.2	0.1	6.7	46	65	17.3		0.2	7.1	20	11
15-Jun	215	198	7.7	25.1	590	368	7.0	21.3	516	335	22.0	-144	-67	5.3	372	268	27.3	7.0	7.0	22.0	12.85	278	67	25.3	0.1	6.5	51	59	18.6	300	2.1	7.1	23	17
16-Jun	258	370	7.4	26.8	440	212	7.0	21.8	402	245	22.9	-32	93	-0.4	370	338	22.5	7.1	0.7	22.0	11.57	223	54	24.7	0.1	6.6	40	53	18.4		4.1	7.3	20	17
17-Jun	310	278	7.4	27.6	570	394	7.1	21.6	520	372	22.8	-70	-14	10.8	450	358	33.6	7.0	0.6	21.8	12.65	255	62	26.4	0.1	6.7	31	25	17.0		3.3	7.3	23	10
18-Jun	262	242	7.5	25.8	520	234	7.0	20.5	465	236	21.6	-35	78	14.9	430	314	36.5	7.2	3.6	22.6	12.27	288	60	29.6	0.1	6.6	44	38	19.0	300	3.5	7.3	25	14
19-Jun	215	250	7.6	24.7	560	694	6.8	19.9	491	605	20.9	-1	-21	12.6	490	584	33.5	6.6	3.9	22.0	12.60	292	65	25.6	0.1	6.5	29	41	20.8		2.2	7.1	22	17
20-Jun	215	266	7.6	23.4	450	140	6.8	16.8	404	165	18.1	46	169	14.6	450	334	32.7	6.7	7.3	24.5	12.76	340	73	23.2	0.0	6.5	56	35	14.0	320	2.2	7.0	26	15
21-Jun	212	248	7.5	25.1	490	300	7.1	21.2	433	289	22.0	-13	67	7.0	420	356	29.0	6.8	4.4	22.5	12.69	278	71	26.2	0.1	6.5	42	45	17.8		0.2	7.0	23	23
22-Jun	200	222	7.6	26.1	600	426	6.9	20.9	522	386	21.9	-42	-30	12.5	480	356	34.4	6.8	3.8	22.2	12.06	270	63	29.1	6.6	6.6	48	26	21.2	340	1.6	7.1	25	9
23-Jun	215	256	7.5	26.4	390	316	7.1	21.5	355	304	22.5	-15	80	4.9	340	384	27.4	6.6	8.0	22.4	12.10	220	60	27.5	0.7	6.7	33	31	20.9		2.4	7.2	18	15
24-Jun	225	218	7.7	26.2	420	288	7.2	20.8	380	274	21.9	-28	24	5.7	352	298	27.6	6.8	8.2	21.7	11.84	210	55	26.7	1.0	6.7	21	17	19.7		2.6	7.3	12	10
25-Jun	292	226	7.6	26.2	620	326	7.3	22.9	560	308	23.5	-232	8	14.5	328	316	38.0	7.0	3.7	22.4	13.21	235	55	26.6	0.1	6.7	24	25	17.0	300	3.0	7.3	12	15
26-Jun	250	242	7.8	26.7	430	568	7.2	20.6	392	499	21.9	-62	-95	6.9	330	404	28.8	6.8	5.7	22.0	11.30	230	49	26.7	0.1	6.8	29	36	16.7		0.9	7.6	18	14
27-Jun	210	222	8.0	26.9	420	254	7.1	20.7	380	248	21.9	-70	64	7.7	310	312	29.6	7.0	9.2	21.9	12.10	215	54	29.0	0.0	6.7	30	27	19.2	300	3.9	7.2	26	16
28-Jun	130	222	7.6	24.1	240	322	7.1	18.7	220	304	19.7	50	-108	10.8	270	196	30.5	6.9	2.9	23.4	12.57	155	58	25.7	0.1	6.7	25	50	19.1		1.6	7.3	21	23
29-Jun	245	394	7.6	25.4	250	304	7.2	18.6	249	324	20.1	81	-50	9.7	330	274	29.8	6.8	8.4	22.7	12.55	135	62	27.3	0.0	6.8	15	23	19.7	340	2.2	7.4	18	15
30-Jun	222	234	7.6	25.1	450	318	7.1	26.2	399	299	26.0	-57	-43	-7.2	342	256	18.8	6.8	4.3	22.4	12.22	268	55	22.7	0.1	6.6	35	29	17.8		1.3	7.1	20	13
TOTAL	6712	7262	229.4	735.5	13749	18688	214	570.3	12322	16337	603.8	-1377	-6477	290.1	10945	9860	893.9	###	###	651.6	404.48	6912	1738	764.8	16.5	###	1020	1033	559.4	4000.0	66.3	217.7	666	482
Week 1	232	240	7.7	23.0	438	1169	7.3	15.9	396	980	17.4	-36	-629	13.6	359	351	30.9	7.3	6.9	20.5	16.03	218	59	23.6	0.9	6.8	31	29	18.9	300.0	2.2	7.3	24	18
Week 2	202	213	7.7	23.3	463	721	7.1	17.9	409	612	19.0	-71	-319	9.2	338	293	28.2	7.1	5.5	21.4	13.57	213	52	25.3	0.1	6.8	36	39	18.6	300.0	2.0	7.3	24	16
Week 3	241	265	7.5	25.5	517	335	7.0	20.4	462	321	21.5	-36	44	9.3	426	365	30.7	6.9	3.9	22.5	12.48	279	65	25.9	0.1	6.6	42	42	17.9	306.7	2.5	7.2	23	16
Week 4	217	230	7.7	26.1	446	357	7.1	20.9	401	332	21.9	-57	-8	9.0	344	324	30.9	6.8	5.9	22.3	12.17	219	56	27.3	1.2	6.7	30	30	19.1	313.3	2.3	7.3	19	15
Monthly	224	242	7.6	24.5	458	623	7.1	19.0	411	545	20.1	-46	-216	9.7	365	329	29.8	7.0	5.6	21.7	13.48	230	58	25.5	0.5	6.7	34	34	18.6	307.7	2.2	7.3	22	16
Min =	110	104	7.4	18	240	140	6.8	14	220	165	14.8	-232	-2221	-7.2	270	196	18.8	6.6	0.6	19.6	11.30	135	40	16.3	0.0	6.5	15	13	13.4	280.0	0.1	7.0	12	9
Max =	310	394	8.0	29	620	3260	7.5	26	560	2617	26.0	81	169	21.2	490	584	39.0	7.7	12.7	24.5	22.28	340	75	29.6	6.6	7.0	61	65	23.9	340.0	4.3	7.6	29	27
									%Removal						%Removal																			
									96.28	97.81	87.00				95.82	96.38	91.22																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	DO	chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	DO	Nitrite	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
15.4	240	6.0	125	7.4	28	17	17	8.9	180		7.5		7.5		312	1255
8.1		6.1	95	7.2	21	11	13	1.8			5.2		7.3		408	494
8.6		6.4	110	7.4	15	10	11	1.2		9.2	6.8	0.001	7.5	56	350	482
12.7	220	6.0	125	7.3	14	10	13	3.4	160		6.7		7.4		343	1020
15.0		5.5	125	7.3	21	12	15	7.3			7.8		7.5		233	850
16.1	240	6.6	130	7.4	18	12	13	5.7	180		6.5		7.3		318	1095
13.6		6.6	130	7.3	22	11	15	5.5		13.0	6.0	0.490	7.4	92	130	810
10.9	300	7.6	120	7.3	28	10	11	2.8	180		7.7		7.4		226	850
11.3		5.2	130	7.2	15	8	9	2.7			6.3		7.4		60	1135
9.7		4.8	130	7.1	12	8	9	1.2		9.8	6.6	0.178	7.3	40	52	1095
11.4	220	7.0	130	7.3	15	11	12	2.0	180		7.3		7.6		192	865
12.8		5.4	140	7.5	32	16	15	5.7		7.5	6.1	0.392	7.4		288	970
11.0	240	5.0	135	7.3	18	12	15	2.2	180		6.4		7.4		413	1200
10.5		5.2	165	7.1	14	11	11	1.8		7.9	6.7	0.376	7.1	75	357	1030
10.1	240	4.3	155	6.9	14	10	7	1.0	180		6.5		7.3		623	879
9.5		5.9	145	7.2	12	11	10	0.6			8.6		7.5		340	819
9.1		4.5	135	7.2	17	13	13	0.8			6.7		7.5	52	283	832
11.8	220	6.1	135	7.3	21	12	11	3.0	180	12.1	7.2	0.320	7.4		253	915
9.2		3.9	140	7.0	14	12	13	1.0			6.4		7.2		133	1185
7.4	220	6.9	150	6.9	17	16	13	0.6	200		6.2		7.5		92	1210
9.4		2.7	150	7.1	16	14	16	0.6			6.2		7.5	58	144	1260
13.7	320	3.5	160	6.9	20	13	7	3.3	180		5.9		7.3		68	1350
14.1		3.9	145	7.0	18	12	17	4.0			3.5		7.2		66	1250
11.9		4.9	135	7.1	12	8	13	1.4			5.1		7.2	92	83	1300
9.5	240	4.8	130	7.1	12	8	17	0.5	180	10.6	5.9	0.234	8.0		80	1015
9.3		4.8	155	7.5	13	10	17	0.6			6.6		7.6		80	1035
10.2	240	5.5	155	7.3	16	10	17	0.3	180		9.0		7.4		144	1305
10.0		3.6	145	7.2	13	9	15	0.7			6.8		7.5	40	74	1190
11.6	280	4.5	150	7.3	35	9	34	2.5	200		5.9		7.5		54	1225
10.1		5.1	145	7.1	22	16	22	0.9			7.0		7.3		64	1485
334.0	3220.0	158.4	4120.0	216.2	545	342	421	74.0	2360.0	70.1	197.2	1.991	222.3	505	6263	31406
12.8	233.3	6.2	120.0	7.3	20	12	14	4.8	173.3	11.1	6.6	0.246	7.4	74	299	858
11.1	253.3	5.8	135.7	7.3	19	11	12	2.6	180.0	8.4	6.8	0.315	7.4	58	227	1021
9.5	226.7	4.9	144.3	7.1	16	13	12	1.1	186.7	12.1	6.8	0.320	7.4	55	267	1014
11.2	266.7	4.4	146.4	7.1	15	10	15	1.6	180.0	10.6	6.1	0.234	7.4	66	85	1206
11.1	247.7	5.3	137.3	7.2	18	11	14	2.5	181.5	10.0	6.6	0.284	7.4	63	209	1047
7.4	220.0	2.7	95.0	6.9	12	8	7	0.3	160.0	7.5	3.5	0.001	7.1	40	52	482
16.1	320.0	7.6	165.0	7.5	35	17	34	8.9	200.0	13.0	9.0	0.490	8.0	92	623	1485

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
	Flow (MGD)																	
1-Jun	17.570	3.102	0.786	4.710		22.280	22.280	5.210	3.110	0.333	23	14						
2-Jun	12.790	2.305	0.589	3.620		16.410	18.820	8.280	3.460	0.422	50	21						
3-Jun	12.330	2.256	0.683	3.090		15.420	16.650	7.900	5.580	0.745	51	36						
4-Jun	12.850	2.133	0.709	3.210		16.060	17.870	8.470	5.770	0.892	53	36						
5-Jun	10.840	1.874	0.616	2.920		13.760	14.470	8.400	5.750	0.834	61	42						
6-Jun	11.170	1.916	0.660	3.020		14.190	14.560	8.460	5.780	0.967	60	41						
7-Jun	11.370	1.883	0.634	2.700		14.070	15.530	8.390	5.860	0.743	60	42						
8-Jun	10.870	1.834	0.599	2.830		13.700	14.530	8.420	5.730	0.753	61	42						
9-Jun	9.340	1.710	0.511	2.720		12.060	13.390	8.230	5.430	0.390	68	45						
10-Jun	11.090	1.962	0.447	2.830		13.920	12.900	6.970	5.580	0.579	50	40						
11-Jun	10.300	1.716	0.860	2.610		12.910	13.770	8.040	5.710	0.789	62	44						
12-Jun	12.600	1.957	0.691	3.310		15.910	18.360	8.440	2.160	0.949	53	14						
13-Jun	10.840	1.887	0.643	2.600		13.440	14.260	9.370	5.890	0.761	70	44						
14-Jun	10.430	1.789	0.678	2.590		13.020	13.960	9.830	5.570	0.528	75	43						
15-Jun	10.330	1.551	0.627	2.520		12.850	12.860	9.330	4.950	0.335	73	39						
16-Jun	9.140	1.845	0.574	2.430		11.570	12.030	9.380	5.850	0.324	81	51						
17-Jun	10.220	1.725	0.639	2.430		12.650	12.410	9.560	6.400	0.758	76	51						
18-Jun	9.670	1.745	0.616	2.600		12.270	14.100	9.220	6.560	0.784	75	53						
19-Jun	10.080	1.721	0.670	2.520		12.600	13.470	8.750	6.840	0.440	69	54						
20-Jun	10.240	1.751	0.661	2.520		12.760	13.190	5.670	6.780	0.651	44	53						
21-Jun	10.110	1.728	0.677	2.580		12.690	14.010	4.270	6.780	0.474	34	53						
22-Jun	9.700	1.624	0.653	2.360		12.060	11.630	7.750	6.130	0.632	64	51						
23-Jun	9.710	1.640	0.584	2.390		12.100	12.290	9.000	6.280	0.398	74	52						
24-Jun	9.440	1.780	0.587	2.400		11.840	12.030	9.010	6.160	0.351	76	52						
25-Jun	10.790	1.696	0.676	2.420		13.210	12.980	8.910	6.550	0.677	67	50						
26-Jun	8.900	1.689	0.633	2.400		11.300	12.320	8.730	6.450	0.455	77	57						
27-Jun	9.770	1.641	0.657	2.330		12.100	12.520	8.890	5.800	0.654	73	48						
28-Jun	10.310	1.580	0.679	2.260		12.570	13.720	8.710	3.810	0.492	69	30						
29-Jun	9.800	1.647	0.601	2.747		12.547	12.900	8.400	3.690	0.681	67	29						
30-Jun	9.470	1.648	0.565	2.747		12.217	12.160	8.200	4.130	0.009	67	34						
	Influent flow metering used due to inconsistency over 25 MGD																	
Total	322.070	55.335	19.205	82.414	0.000	404.484	425.970	248.190	164.540	17.800	1887	1260						
Week 1	12.703	2.210	0.668	3.324	#DIV/0!	16.027	17.169	7.873	5.044	0.705	51	33						
Week 2	10.781	1.836	0.633	2.784	#DIV/0!	13.566	14.453	8.471	5.153	0.678	63	39						
Week 3	9.970	1.724	0.638	2.514	#DIV/0!	12.484	13.153	8.026	6.309	0.538	65	51						
Week 4	9.803	1.664	0.638	2.366	#DIV/0!	12.169	12.499	8.714	5.883	0.523	72	49						
Monthly	10.736	1.845	0.640	2.747	#DIV/0!	13.483	14.199	8.273	5.485	0.593	63	42						
	Monthly average used due to 30" totalizer out of service																	
Min =	8.900	1.551	0.447	2.260	0.000	11.300	11.630	4.270	2.160	0.009	23	14						
Max =	17.570	3.102	0.860	4.710	0.000	22.280	22.280	9.830	6.840	0.967	81	57						

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	June 2012			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jun										7.2	473	5200	7.2	771	5000
2-Jun															
3-Jun	7.1	406	5100	7.2	496	5180	7.0	412	5580						
4-Jun										7.2	344	5180	7.1	652	5060
5-Jun	7.1		5040	7.2		5120	7.0		5340						
6-Jun										7.2		5280	7.1		5320
7-Jun	7.2	402	3940	7.1	212	5240	7.1	346	5360						
8-Jun										7.2	535	5440	7.1	408	5300
9-Jun															
10-Jun	7.2	144	5060	7.2	479	5200	7.2	371	5300						
11-Jun										7.0	592	1200	7.1	552	2400
12-Jun	7.1		5080	7.2		5620	7.2		4260						
13-Jun										7.2		5400	7.3		5400
14-Jun	7.1	304	5100	7.2	342	5440	7.0	492	5220						
15-Jun										7.4	383	4800	7.3	562	5360
16-Jun															
17-Jun	7.1	213	5060	7.2	275	5360	7.1	337	5580						
18-Jun										7.2	244	5140	7.2	175	5360
19-Jun	7.1		5140	7.1		5420	7.1		4840						
20-Jun										7.1		5080	7.1		5320
21-Jun	7.2	121	5340	7.1	152	5340	7.1	259	5360						
22-Jun										7.2	346	5280	7.1	254	5380
23-Jun															
24-Jun	7.3	417	5300	7.3	331	5184	7.2	523	5220						
25-Jun										7.1	360	5300	7.2	410	5440
26-Jun	7.5		5660	7.3		5400	7.2		4900						
27-Jun										7.2		5340	7.2		2400
28-Jun	7.2	385	5360	7.1	227	5200	7.2	285	5240						
29-Jun										7.2	326	5340	7.2	344	5460
30-Jun															
Total	86.1	2392	61180	86.2	2514	63704	85.5	3025	62200	93.5	3603	63980	93.2	4128	63200
Week 1	7.1	404	4693	7.2	354	5180	7.0	379	5427	7.2	409	5220	7.1	712	5127
Week 2	7.1	224	5080	7.2	411	5420	7.2	432	4927	7.1	564	4013	7.2	480	4367
Week 3	7.1	167	5180	7.1	214	5373	7.1	298	5260	7.3	314	5007	7.2	369	5347
Week 4	7.3	401	5440	7.2	279	5261	7.2	404	5120	7.2	353	5307	7.2	332	4407
Monthly	7.2	299	5098	7.2	314	5309	7.1	378	5183	7.2	400	4922	7.2	459	4862
Min =	7.1	121	3940	7.1	152	5120	7.0	259	4260	7.0	244	1200	7.1	175	2400
Max =	7.5	417	5660	7.3	496	5620	7.2	523	5580	7.4	592	5440	7.3	771	5460

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Dissolved Oxygen -June 2011

	Dissolved Oxygen by Operations						Laboratory	Lowest DO reading for the day/Operator and Lab	FECAL COLIFORM Colonies/100 ml		
6/1/2011	6.7	6.8	6.7	6.9	6.9	6.3	6.3	6.3	5		
6/2/2011	6.0	6.0	6.0	7.6	7.6	7.2	5.5	5.5	6		
6/3/2011	7.1	7.2	7.7	7.9	7.6	7.0	7.0	7.0	15		
6/4/2011	7.1	7.2	7.4	7.2	7.1	6.8	7.1	6.8	6		
6/5/2011	6.8	7.0	6.9	7.2	7.1	6.9	6.2	6.2	8		
6/6/2011	7.1	7.0	7.2	7.4	7.1	6.9	6.9	6.9	1		
6/7/2011	6.9	6.9	6.8	7.1	6.8	6.6	6.5	6.5	5		
6/8/2011	6.8	6.8	6.8	7.2	7.0	6.7	8.3	6.7	5		
6/9/2011	6.7	6.6	6.7	6.8	6.8	6.4	6.7	6.4	2		
6/10/2011	6.6	6.6	7.0	7.2	6.6	6.5	6.8	6.5	7		
6/11/2011	6.6	6.6	6.7	7.0	6.8	6.6	8.3	6.6	5		
6/12/2011	6.4	6.5	6.7	6.5	6.4	6.2	6.6	6.2	4		
6/13/2011	6.4	6.5	6.9	6.9	6.7	6.5	6.5	6.4	2		
6/14/2011	6.7	6.9	7.0	6.8	6.7	6.6	7.0	6.6	5		
6/15/2011	6.6	6.8	7.2	7.3	7.0	6.6	6.6	6.6	22		
6/16/2011	6.6	6.9	6.9	7.1	7.0	6.7	8.9	6.6	4800		
6/17/2011	6.8	7.2	7.1	7.0	7.3	7.1	7.1	6.8	2800		
6/18/2011	7.0	7.2	7.2	7.0	6.9	6.7	7.2	6.7	33		
6/19/2011	6.6	6.7	7.0	7.0	6.6	6.8	6.7	6.6	10		
6/20/2011	7.1	7.0	7.2	6.7	6.4	6.4	7.3	6.4	9		
6/21/2011	6.8	6.7	6.9	6.7	6.6	6.4	6.7	6.4	664		
6/22/2011	6.4	6.6	6.6	6.5	6.3	6.3	6.4	6.3	5300		
6/23/2011	6.4	6.5	6.4	6.2	6.3	6.3	6.1	6.1	6		
6/24/2011	6.5	6.7	6.4	6.2	6.4	6.2	6.1	6.1	13		
6/25/2011	6.3	6.4	6.6	6.7	6.6	6.7	6.1	6.1	4	9	35
6/26/2011	7.0	6.9	7.2	7.0	6.8	7.0	6.9	6.8	581	17	16
6/27/2011	7.2	7.4	7.5	7.5	7.2	7.1	9.5	7.1	45	42	9
6/28/2011	7.2	7.3	7.3	6.8	6.6	6.6	7.0	6.6	2	5	17
6/29/2011	6.8	6.6	6.6	6.6	6.2	6.2	6.4	6.2	3	4	
6/30/2011	6.2	6.4	6.4	6.1	6.2	6.1	8.5	6.1	1	4	
Min	6.0	6.0	6.0	6.1	6.2	6.1	5.5	Min 5.5	Geomean	14	
Max	7.2	7.4	7.7	7.9	7.6	7.2	9.5	Max 7.1	Min	1	
								Avg 6.47	Max	5300	
									> 1000	3	

June 2012
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Jun	0.06	0.05	0.02	0.06	0.05	0.02	0.04	
2-Jun	0.02	0.02	0.00	0.03	0.06	0.02	0.03	
3-Jun	0.04	0.03	0.00	0.04	0.05	0.03	0.03	
4-Jun	0.04	0.03	0.01	0.03	0.04	0.04	0.03	
5-Jun	0.07	0.05	0.02	0.07	0.05	0.04	0.05	
6-Jun	0.04	0.01	0.00	0.09	0.03	0.05	0.04	
7-Jun	0.09	0.04	0.00	0.05	0.10	0.04	0.05	
8-Jun	0.05	0.04	0.02	0.05	0.06	0.02	0.04	
9-Jun	0.06	0.00	0.03	0.00	0.04	0.05	0.03	
10-Jun	0.05	0.02	0.04	0.03	0.04	0.05	0.04	
11-Jun	0.05	0.03	0.05	0.04	0.03	0.07	0.05	
12-Jun	0.05	0.03	0.00	0.05	0.05	0.05	0.04	
13-Jun	0.03	0.04	0.05	0.04	0.09	0.06	0.05	
14-Jun	0.04	0.04	0.06	0.06	0.02	0.04	0.04	
15-Jun	0.04	0.06	0.04	0.03	0.07	0.03	0.05	
16-Jun	0.02	0.04	0.04	0.05	0.05	0.05	0.04	
17-Jun	0.06	0.06	0.03	0.05	0.04	0.05	0.05	
18-Jun	0.04	0.00	0.01	0.02	0.04	0.05	0.03	
19-Jun	0.03	0.02	0.08	0.02	0.04	0.05	0.04	
20-Jun	0.04	0.02	0.03	0.05	0.04	0.04	0.04	
21-Jun	0.06	0.03	0.03	0.04	0.04	0.05	0.04	
22-Jun	0.03	0.03	0.02	0.08	0.06	0.05	0.05	
23-Jun	0.05	0.00	0.06	0.04	0.03	0.05	0.04	
24-Jun	0.07	0.05	0.11	0.04	0.04	0.03	0.06	
25-Jun	0.05	0.00	0.03	0.06	0.03	0.03	0.03	
26-Jun	0.03	0.02	0.01	0.05	0.03	0.04	0.03	
27-Jun	0.04	0.03	0.03	0.03	0.04	0.04	0.04	
28-Jun	0.06	0.02	0.02	0.07	0.05	0.03	0.04	
29-Jun	0.05	0.03	0.06	0.03	0.05	0.05	0.05	
30-Jun	0.04	0.03	0.04	0.03	0.04	0.04	0.04	
Average	0.05	0.03	0.03	0.04	0.05	0.04	0.04	
Minimum	0.02	0.00	0.00	0.00	0.02	0.02		
Maximum	0.09	0.06	0.11	0.09	0.10	0.07		

CITY OF READING WASTEWATER TREATMENT PLANT

June 2012 Biosolids Report

Solids Processing:

	Total
Sludge Pumped from Primary Settling Tanks (gallons):	2,991,543
Secondary Sludge Pumped to Mix Tank (gallons):	5,710,000
Supernated from Secondary Digesters (gallons):	0

Gravity Belt Thickeners:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	6,129,360	3,274,643	536,823	9,940,826
Thickened Sludge (gallons):	1,255,000	546,200	136,901	1,938,101
Polymer (pounds):	1006.34	435.58	120.16	1562.08
Solids (dry tons):	275.47	77.84	35.44	388.75
Polymer dosage (pounds/dry ton):	3.65	5.60	3.39	4.02
% Reduction:	79.52%	83.32%	74.50%	80.50%
GBT Solids in Filtrate (dry tons):	7.26	19.51	2.86	29.63
GBT 1 Hours of Operation:	202.50	85.00	24.00	311.50
GBT 2 Hours of Operation:	204.00	104.50	24.00	332.50
Total GBT Hours of Operation:	406.50	189.50	48.00	644.00
Dry tons/hour:	0.68	0.41	0.74	0.60

Belt Filter Presses:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	1,274,255	844,103	111,422	2,229,780
Polymer (pounds):	1456.94	1141.52	127.67	2726.13
Solids (dry tons):	132.79	87.73	12.44	232.95
Polymer dosage (pounds/dry ton):	10.97	13.01	10.27	11.70
% Solids Recovery:	95.01%	94.79%	95.81%	95.20%
Solids in Filtrate (dry tons):	7.34	5.13	0.61	13.08
BFP 1 Hours of Operation:	0.50	2.00	0.00	2.50
BFP 2 Hours of Operation:	158.00	77.00	16.00	251.00
BFP 3 Hours of Operation:	182.00	98.00	24.00	304.00
BFP 4 Hours of Operation:	204.00	117.50	24.00	345.50
Total BFP Hours of Operation:	544.50	294.50	64.00	903.00
Dry tons/hour:	0.24	0.30	0.19	0.26

Total Solids in Filtrate (dry tons):	42.71
% Solids (Method 2540 G):	19.74%
Total Wet Tons Removed:	1127.73
Dry Tons Removed:	222.61
Hours of Operation:	352
Fritz Island Scum Disposed (tons):	0.00
Fritz Island Grit Disposed (tons):	0.00
6th & Canal Grit Disposed (tons):	37.43
Mix Tank Cleaning/Snail Shells Disposed (tons):	0.00
Sanitary Sewer Excavation Soil (tons):	23.30

June 2012 Biosolids Report

Date	Volatile Solids Reducton PST (VS%)	Sec Dig (VS%)	VSR (%)	% Solids Feed	Cake (I-3750-85)	Filtrate	Thickened	GBT Filtrate	Polymer (lbs)	BFP Feed (gal)	Solids (dry tons)	Polymer Dose lb/dry ton	Wet Tons	6th St.	Grit	Snail Shells	Scum	Supernated (gpd)	GBT Feed (gal)	Thickened (gal)	GBT Poly (lbs)	Date
Fri 1				3.07%	18.74%	0.16%	4.75%	0.16%	150.20	127,500	16.32	9.20	73.52					0	270,061	54,001	45.06	Fri 1
Sat 2				2.44%	19.07%	0.10%	3.27%	0.10%	105.14	65,600	6.67	15.75	14.00					0	236,481	65,700	45.06	Sat 2
Sun 3				2.96%	18.91%	0.15%	3.27%	0.15%	52.57	41,100	5.07	10.36						0	233,719	66,100	52.57	Sun 3
Mon 4				2.29%	19.13%	0.21%	4.16%	0.21%	127.67	108,800	10.39	12.29	71.33					0	505,540	88,400	82.61	Mon 4
Tue 5				2.17%	18.42%	0.14%	7.89%	0.14%	165.22	144,320	13.06	12.65	73.48					0	276,396	37,300	37.55	Tue 5
Wed 6	77.14%	66.85%	40.24%	2.31%	19.64%	0.15%	4.75%	0.15%	172.73	143,720	13.84	12.48	71.20	13.25				0	494,800	81,500	67.59	Wed 6
Thu 7				1.56%	17.58%	0.16%	3.93%	0.16%	105.14	92,899	6.04	17.40	35.23	6.31				0	475,990	70,600	75.10	Thu 7
Fri 8				2.32%	18.24%	0.13%	3.71%	0.13%	127.67	102,101	9.88	12.93	53.72					0	410,905	75,199	67.59	Fri 8
Sat 9				2.04%	18.86%	0.14%	6.08%	0.14%	52.57	54,299	4.62	11.38	37.50					0	220,607	53,501	37.55	Sat 9
Sun 10				2.66%	19.71%	0.13%	6.34%	0.13%	45.06	40,001	4.44	10.16						0	225,711	60,900	45.06	Sun 10
Mon 11				2.41%	19.91%	0.15%	3.45%	0.15%	97.63	88,200	8.86	11.01	53.15					0	422,741	81,400	60.08	Mon 11
Tue 12				2.24%	18.96%	0.13%	2.85%	0.13%	120.16	107,520	10.04	11.96	37.16					0	413,982	63,999	60.08	Tue 12
Wed 13	79.24%	62.38%	56.57%	2.55%	19.73%	0.16%	4.20%	0.16%	120.16	104,480	11.11	10.82	53.54					0	444,955	67,201	75.10	Wed 13
Thu 14				2.67%	19.70%	0.10%	3.99%	0.10%	97.63	75,780	8.44	11.57	49.68					0	450,829	65,600	60.08	Thu 14
Fri 15				2.60%	20.13%	0.14%	2.12%	0.14%	82.61	62,700	6.80	12.15	33.99					0	764,277	63,700	67.59	Fri 15
Sat 16				2.72%	20.28%	0.14%	2.45%	0.14%	60.08	39,500	4.48	13.41						0	200,437	53,100	30.04	Sat 16
Sun 17				3.07%	23.15%	0.13%	2.48%	0.13%	75.10	33,600	4.30	17.46						0	210,583	66,300	15.02	Sun 17
Mon 18				2.78%	18.92%	0.15%	3.69%	0.15%	172.73	90,540	10.50	16.46	70.06					0	477,653	95,699	30.04	Mon 18
Tue 19				2.75%	20.11%	0.14%	6.26%	0.14%	75.10	36,900	4.23	17.75	56.38	17.87				0	207,216	48,401	30.04	Tue 19
Wed 20	83.33%	67.16%	59.10%	2.53%	19.05%	0.13%	6.29%	0.13%	97.63	88,120	9.30	10.50	34.41					0	309,048	96,300	60.08	Wed 20
Thu 21				2.40%	20.66%	0.12%	6.07%	0.12%	52.57	48,079	4.81	10.93	37.24					0	246,023	42,700	45.06	Thu 21
Fri 22				2.81%	19.52%	0.11%	6.10%	0.11%	90.12	86,401	10.12	8.90	32.30					0	351,358	101,700	75.10	Fri 22
Sat 23				2.07%	19.68%	0.10%	6.11%	0.10%	67.59	65,700	5.67	11.92	36.60					0	205,169	37,400	37.55	Sat 23
Sun 24				2.70%	20.18%	0.13%	5.99%	0.13%	37.55	37,179	4.19	8.97						0	211,259	58,900	45.06	Sun 24
Mon 25				2.39%	20.51%	0.11%	6.08%	0.11%	52.57	42,141	4.20	12.52	35.77					0	312,925	77,200	67.59	Mon 25
Tue 26				3.02%	22.08%	0.13%	6.70%	0.13%	52.57	56,580	7.13	7.38	36.60					0	226,874	34,300	30.04	Tue 26
Wed 27	77.14%	62.86%	49.85%	2.75%	19.73%	0.15%	6.72%	0.15%	82.61	75,420	8.65	9.55	18.62					0	342,505	85,199	60.08	Wed 27
Thu 28				2.49%	20.58%	0.16%	6.99%	0.16%	37.55	34,000	3.53	10.64	37.57					0	212,855	27,801	30.04	Thu 28
Fri 29				2.85%	21.76%	0.14%	5.89%	0.14%	97.63	84,119	10.00	9.77	37.36					0	362,717	83,000	97.63	Fri 29
Sat 30				2.86%	19.35%	0.14%	5.82%	0.14%	52.57	52,481	6.26	8.40	37.32					0	217,210	35,000	30.04	Sat 30
Total:					592.29%				2,726.13	2,229,780	232.95	11.70	1127.73	37.43	0.00	0.00	0.00	0	9,940,626	1,938,101	1562.08	
Ave:	79.21%	64.81%	51.44%	2.55%	19.74%	0.14%	4.95%	0.14%	90.87	74,326	7.77	11.89	45.11	12.48	0.00	0.00	0.00	0	331,361	64,603	52.07	
Min:	77.14%	62.38%	40.24%	1.56%	17.58%	0.10%	2.12%	0.10%	37.55	33,600	3.53	7.38	14.00									
Max:	83.33%	67.16%	59.10%	3.07%	23.15%	0.21%	7.89%	0.21%	172.73	144,320	16.32	17.75	73.52									

Total Dry Tons, Cake =	1127.73	x	19.74	x	0.01 =	222.61 dry tons

June 2012 Solids Operations Report

10 PM - 6 AM

Date	BFP % Solids Feed	BFP % Solids Cake (I-3750-85)	BFP % Solids Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened	GBT % Solids Filtrate (I-3750-85)	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Fri 1	3.07%	18.74%	0.16%	54,799	67.59	7.02	9.63	95.60%	16.00	0.44	0.37	4.75%	0.16%	244,750	45,701	81.33%	37.55	9.05	4.15	16.00	0.57	0.304917
Sat 2	2.44%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 3	2.96%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 4	2.29%	19.13%	0.21%	39,200	45.06	3.74	12.04	91.84%	16.00	0.23	0.34	4.16%	0.21%	280,334	53,800	80.81%	45.06	9.33	4.83	16.00	0.58	0.471127
Tue 5	2.17%	18.42%	0.14%	73,720	75.10	6.67	11.26	94.26%	23.00	0.29	0.43	7.89%	0.14%	239,112	27,400	88.54%	30.04	9.01	3.33	16.00	0.56	0.159961
Wed 6	2.31%	19.64%	0.15%	79,119	75.10	7.62	9.85	94.23%	24.00	0.32	0.49	4.75%	0.15%	279,915	49,100	82.46%	45.06	9.73	4.63	16.00	0.61	0.307121
Thu 7	1.56%	17.58%	0.16%	49,899	60.08	3.25	18.51	90.57%	18.00	0.18	0.33	3.93%	0.16%	277,715	45,499	83.62%	45.06	7.46	6.04	16.00	0.47	0.303569
Fri 8	2.32%	18.24%	0.13%	46,001	60.08	4.45	13.50	95.07%	16.00	0.28	0.25	3.71%	0.13%	262,321	46,900	82.12%	45.06	7.26	6.21	16.00	0.45	0.254245
Sat 9	2.04%	18.86%	0.14%	54,299	52.57	4.62	11.38	93.83%	24.00	0.19	0.32	8.08%	0.14%	220,607	53,501	75.75%	37.55	13.56	2.77	16.00	0.85	0.312339
Sun 10	2.66%	19.71%	0.13%	40,001	45.06	4.44	10.16	95.74%	24.00	0.18	0.22	6.34%	0.13%	225,711	60,900	73.02%	45.06	16.10	2.60	16.00	1.01	0.330139
Mon 11	2.41%	19.91%	0.15%	38,400	37.55	3.86	9.73	94.49%	24.00	0.16	0.24	3.45%	0.15%	262,586	53,400	79.66%	37.55	7.68	4.89	16.00	0.48	0.334017
Tue 12	2.24%	18.96%	0.13%	52,420	60.08	4.90	12.27	94.85%	24.00	0.20	0.28	2.85%	0.13%	258,646	46,000	82.22%	37.55	5.47	6.87	16.00	0.34	0.249366
Wed 13	2.55%	19.73%	0.16%	55,180	60.08	5.87	10.24	94.49%	24.00	0.24	0.37	4.20%	0.16%	274,403	47,500	82.69%	45.06	8.32	5.42	16.00	0.52	0.31692
Thu 14	2.67%	19.70%	0.10%	38,780	52.57	4.32	12.18	96.75%	16.00	0.27	0.16	3.99%	0.10%	253,238	43,799	82.70%	37.55	7.29	5.15	16.00	0.46	0.182642
Fri 15	2.60%	20.13%	0.14%	24,200	30.04	2.62	11.45	95.28%	8.00	0.33	0.14	2.12%	0.14%	126,379	32,100	74.80%	15.02	2.84	5.29	8.00	0.35	0.1874
Sat 16	2.72%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 17	3.07%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 18	2.78%	18.92%	0.15%	32,539	67.59	3.77	17.92	95.36%	16.00	0.24	0.20	3.69%	0.15%	255,307	58,400	77.13%	15.02	8.99	1.67	16.00	0.56	0.365292
Tue 19	2.75%	20.11%	0.14%	38,900	75.10	4.23	17.75	95.57%	24.50	0.17	0.22	6.26%	0.14%	207,216	48,401	76.64%	30.04	12.63	2.38	16.00	0.79	0.282565
Wed 20	2.53%	19.05%	0.13%	66,400	67.59	7.01	9.65	95.51%	24.00	0.29	0.36	6.29%	0.13%	211,108	71,300	66.23%	37.55	18.70	2.01	16.00	1.17	0.386517
Thu 21	2.40%	20.66%	0.12%	48,079	52.57	4.81	10.93	95.56%	23.00	0.21	0.24	6.07%	0.12%	246,023	42,700	82.64%	45.06	10.81	4.17	14.50	0.75	0.213671
Fri 22	2.81%	19.52%	0.11%	67,901	82.61	7.96	10.38	96.63%	24.00	0.33	0.31	6.10%	0.11%	237,991	67,900	71.47%	52.57	17.27	3.04	18.00	1.08	0.311457
Sat 23	2.07%	19.68%	0.10%	65,700	67.59	5.67	11.92	95.66%	24.00	0.24	0.27	6.11%	0.10%	205,189	37,400	81.77%	37.55	9.53	3.94	16.00	0.60	0.155958
Sun 24	2.70%	20.18%	0.13%	37,179	37.55	4.19	8.97	95.80%	16.00	0.26	0.20	5.99%	0.13%	211,259	58,900	72.12%	45.06	14.71	3.06	16.00	0.92	0.319297
Mon 25	2.39%	20.51%	0.11%	23,740	30.04	2.37	12.70	95.91%	16.00	0.15	0.11	6.08%	0.11%	204,769	52,699	74.26%	45.06	13.36	3.37	16.00	0.84	0.24173
Tue 26	3.02%	22.08%	0.13%	56,580	52.57	7.13	7.38	96.26%	24.00	0.30	0.31	6.70%	0.13%	226,874	34,300	84.88%	30.04	9.58	3.13	16.00	0.60	0.18594
Wed 27	2.75%	19.73%	0.15%	43,499	45.06	4.99	9.03	95.27%	24.00	0.21	0.27	6.72%	0.15%	239,415	59,000	75.36%	37.55	16.53	2.27	16.00	1.03	0.369045
Thu 28	2.49%	20.58%	0.16%	34,000	37.55	3.53	10.64	94.31%	24.00	0.15	0.23	6.99%	0.16%	212,855	27,801	86.94%	30.04	8.10	3.71	16.00	0.51	0.185488
Fri 29	2.85%	21.76%	0.14%	63,239	67.59	7.52	8.99	95.70%	24.00	0.31	0.37	5.89%	0.14%	248,447	55,599	77.62%	67.59	13.66	4.95	16.00	0.85	0.324587
Sat 30	2.86%	19.35%	0.14%	52,481	52.57	6.26	8.40	95.80%	24.00	0.26	0.31	5.82%	0.14%	217,210	35,000	83.89%	30.04	8.49	3.54	16.00	0.53	0.20433
Total =				1,274,255	1458.94	132.79	10.97	95.01%	544.50	6.44	7.34			6,129,360	1,255,000	79.52%	1006.34	275.47	3.65	406.50	17.46	7.28
Average =	2.55%	19.65%	0.14%	42,475	48.56	4.43	11.42	95.01%	18.15	0.25	0.24	5.27%	0.14%	204,312	41,833	79.25%	33.54	10.60	3.99	13.55	0.67	0.28
Minimum =	1.56%	17.58%	0.10%	0	0.00	0.00	7.38	90.57%	0.00	0.15	0.00	2.12%	0.10%	0	0	66.23%	0.00	2.84	1.67	0.00	0.34	0.16
Maximum =	3.07%	22.08%	0.21%	79,119	82.61	7.96	18.51	96.75%	24.50	0.44	0.49	7.89%	0.21%	280,334	71,300	88.54%	67.59	18.70	6.87	16.00	1.17	0.47

(%feed)(%cake - %filtrate)

June 2012 Solids Operations Report

10 PM - 6 AM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Fri 1	8	1.90%	18.97%	0.14%	5.15%	2.40%	17.84%	0.13%	5.71%	0	29200	0	25599	4	5	82,800	161,950	45,701	3	2	0.00	8.00	0.00	8.00	8.00	8.00
Sat 2																										
Sun 3																										
Mon 4	8	1.50%	18.28%	0.14%	5.22%	1.95%	18.88%	0.12%	5.19%	0	-300	16200	23300	2	4	102,200	178,134	53,800	4	2	0.00	0.00	8.00	8.00	8.00	8.00
Tue 5	8	1.50%	18.61%	0.14%	4.93%	1.85%	18.06%	0.14%	6.18%	0	22800	23820	27100	6	4	63,100	176,012	27,400	3	1	0.00	7.00	8.00	8.00	8.00	8.00
Wed 6	8	1.20%	18.26%	0.14%	5.89%	1.84%	18.01%	0.14%	5.64%	0	27200	24720	27199	6	4	100,400	179,515	49,100	4	2	0.00	8.00	8.00	8.00	8.00	8.00
Thu 7	8	1.60%	17.48%	0.14%	5.15%	1.55%	18.15%	0.15%	5.58%	0	24500	0	25399	3	5	104,100	173,615	45,499	4	2	0.00	8.00	2.00	8.00	8.00	8.00
Fri 8	8	1.55%	18.01%	0.21%	5.20%	1.88%	18.36%	0.16%	6.06%	0	24300	0	21701	4	4	90,200	172,121	46,900	3	3	0.00	8.00	0.00	8.00	8.00	8.00
Sat 9	8	1.30%	18.57%	0.14%	5.28%	1.35%	18.12%	0.14%	5.35%	0	19700	16800	17799	5	2	66,600	154,007	53,501	3	2	0.00	8.00	8.00	8.00	8.00	8.00
Sun 10	8	1.65%	19.23%	0.15%	5.07%	1.41%	18.91%	0.14%	5.91%	0	0	19200	20801	2	4	76,900	148,811	60,900	4	2	0.00	8.00	8.00	8.00	8.00	8.00
Mon 11	8	1.55%	20.15%	0.14%	5.33%	2.25%	19.60%	0.15%	5.85%	0	2400	17700	18300	2	3	89,900	172,686	53,400	3	2	0.00	8.00	8.00	8.00	8.00	8.00
Tue 12	8	1.55%	19.06%	0.14%	5.10%	1.21%	18.56%	0.14%	5.85%	0	18300	17520	16600	5	3	88,900	169,746	46,000	3	2	0.00	8.00	8.00	8.00	8.00	8.00
Wed 13	8	2.50%	20.85%	0.15%	5.40%	1.35%	19.68%	0.14%	5.69%	0	12000	22080	21100	5	3	96,400	178,003	47,500	4	2	0.00	8.00	8.00	8.00	8.00	8.00
Thu 14	8	1.45%	18.60%	0.13%	5.80%	2.10%	18.51%	0.15%	6.10%	0	0	16680	22100	3	4	88,000	165,238	43,799	3	2	0.00	0.00	8.00	8.00	8.00	8.00
Fri 15	4	2.90%	20.19%	0.14%	2.05%					0	0	12000	12200	1	3	45,500	80,879	32,100	2	0	0.00	0.00	4.00	4.00	4.00	4.00
Sat 16																										
Sun 17																										
Mon 18	8	2.30%	18.10%	0.13%	4.68%	2.14%	18.12%	0.15%	5.14%	0	0	15240	17299	4	5	93,001	162,306	56,400	0	2	0.00	0.00	8.00	8.00	8.00	8.00
Tue 19	8	1.75%	19.46%	0.14%	5.18%	1.95%	18.93%	0.14%	6.05%	0	16200	1800	18900	6	4	42,601	164,615	48,401	3	1	0.50	8.00	8.00	8.00	8.00	8.00
Wed 20	8	1.30%	18.48%	0.15%	5.02%	1.97%	17.87%	0.16%	5.10%	0	23400	20700	22300	6	3	42,300	168,808	71,300	4	1	0.00	8.00	8.00	8.00	8.00	8.00
Thu 21	8	1.95%	19.36%	0.16%	5.82%	1.80%	20.39%	0.14%	5.48%	0	3700	21780	22599	3	4	0	246,023	42,700	4	2	0.00	7.00	8.00	8.00	6.50	8.00
Fri 22	8	2.15%	18.69%	0.14%	5.03%	2.30%	19.98%	0.14%	5.56%	0	23700	21000	23201	7	4	18,800	219,191	67,900	4	3	0.00	8.00	8.00	8.00	8.00	8.00
Sat 23	8	1.30%	18.69%	0.15%	5.45%	1.44%	19.98%	0.15%	5.73%	0	19600	22800	23300	5	4	65,200	139,969	37,400	3	2	0.00	8.00	8.00	8.00	8.00	6.00
Sun 24	8	1.95%	18.86%	0.16%	5.66%	2.30%	21.57%	0.13%	5.51%	0	0	18780	18399	2	3	76,300	134,959	58,900	4	2	0.00	0.00	8.00	8.00	6.00	8.00
Mon 25	8	2.05%	22.24%	0.15%	5.28%	2.60%	20.45%	0.16%	6.05%	0	0	9240	14500	1	3	86,500	116,269	52,899	3	3	0.00	0.00	8.00	8.00	8.00	8.00
Tue 26	8	2.00%	20.29%	0.13%	6.01%	1.10%	19.01%	0.16%	5.84%	0	19400	20280	16900	4	3	91,700	135,174	34,300	2	2	0.00	8.00	8.00	8.00	8.00	8.00
Wed 27	8	1.75%	19.11%	0.17%	5.05%	2.05%	18.95%	0.15%	6.34%	0	15300	15000	13199	4	2	97,299	142,116	59,000	3	2	0.00	8.00	8.00	8.00	8.00	8.00
Thu 28	8	1.75%	20.34%	0.12%	6.12%	2.40%	19.45%	0.14%	6.04%	0	11700	11700	10600	3	2	88,200	124,655	27,801	2	2	0.00	8.00	8.00	8.00	6.00	8.00
Fri 29	8	1.85%	22.56%	0.15%	6.23%	2.20%	19.35%	0.14%	6.20%	0	23100	21240	18899	5	4	94,199	154,248	55,599	7	2	0.00	8.00	8.00	8.00	8.00	8.00
Sat 30	8	1.70%	19.30%	0.15%	6.10%	1.65%	18.38%	0.14%	5.40%	0	14200	20880	17401	4	3	90,299	126,911	35,000	3	1	0.00	8.00	8.00	8.00	8.00	8.00
	204	1.77%	19.30%	0.15%	5.28%	1.68%	19.01%	0.14%	5.74%	0	350400	407160	516695	102	92	1,981,399	4,147,961	1,255,000	65	49	0.50	158.00	182.00	204.00	202.50	204.00
	Min:	1.20%	17.48%	0.12%	2.05%	1.10%	17.84%	0.12%	5.10%																	
	Max:	2.90%	22.56%	0.21%	6.23%	2.60%	21.57%	0.16%	6.34%	0	29200	24720	27199	7	5	104,100	246,023	71,300	7	3	0.50	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

June 2012 Solids Operations Report

6 AM - 2 PM

Date	% Solids Feed (I-3750-85)	% Solids Cake (I-3750-85)	% Solids Filtrate (I-3750-85)	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened (I-3750-85)	GBT % Solids Filtrate (I-3750-85)	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Fri 1	3.07%	18.74%	0.16%	72,701	82.61	9.31	6.88	95.60%	14.50	0.64	0.49	4.75%	0.16%	25,311	8,300	67.21%	7.51	1.64	4.57	3.50	0.47	0.17
Sat 2	2.44%	19.07%	0.10%	65,600	105.14	6.67	15.75	96.41%	20.00	0.33	0.27	3.27%	0.10%	236,481	65,700	72.22%	45.06	8.96	5.03	16.00	0.56	0.99
Sun 3	2.96%	18.91%	0.15%	41,100	52.57	5.07	10.36	95.89%	14.00	0.36	0.26	3.27%	0.15%	233,719	66,100	71.72%	52.57	9.01	5.83	14.00	0.64	1.46
Mon 4	2.29%	19.13%	0.21%	69,600	82.61	6.65	12.43	91.84%	20.50	0.32	0.61	4.16%	0.21%	225,206	34,600	84.64%	37.55	6.00	6.26	13.00	0.46	1.97
Tue 5	2.17%	18.42%	0.14%	70,600	90.12	6.39	14.11	94.26%	23.00	0.28	0.41	7.89%	0.14%	37,284	9,900	73.45%	7.51	3.26	2.31	4.00	0.81	0.22
Wed 6	2.31%	19.64%	0.15%	64,601	97.63	6.22	15.69	94.23%	22.50	0.28	0.40	4.75%	0.15%	214,885	32,400	84.92%	22.53	6.42	3.51	12.00	0.53	1.34
Thu 7	1.56%	17.58%	0.16%	43,000	45.06	2.60	16.11	90.57%	15.00	0.19	0.29	3.93%	0.16%	198,275	25,101	87.34%	30.04	4.11	7.30	13.00	0.32	1.32
Fri 8	2.32%	18.24%	0.13%	56,100	67.59	5.43	12.45	95.07%	20.50	0.26	0.30	3.71%	0.13%	148,584	28,299	80.95%	22.53	4.38	5.15	12.00	0.36	0.81
Sat 9	2.04%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 10	2.66%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 11	2.41%	19.91%	0.15%	49,800	60.08	5.00	12.00	94.49%	21.00	0.24	0.31	3.45%	0.15%	160,155	28,000	82.52%	22.53	4.03	5.59	10.50	0.38	1.00
Tue 12	2.24%	18.96%	0.13%	55,100	60.08	5.15	11.67	94.85%	21.00	0.25	0.30	2.85%	0.13%	155,336	17,999	88.41%	22.53	2.14	10.53	10.50	0.20	0.84
Wed 13	2.55%	19.73%	0.16%	49,300	60.08	5.24	11.46	94.49%	24.00	0.22	0.33	4.20%	0.16%	170,552	19,701	88.45%	30.04	3.45	8.71	11.00	0.31	1.14
Thu 14	2.67%	19.70%	0.10%	37,000	45.06	4.12	10.94	96.75%	14.00	0.29	0.15	3.99%	0.10%	197,591	21,801	88.97%	22.53	3.63	6.21	12.00	0.30	0.82
Fri 15	2.60%	20.13%	0.14%	38,500	52.57	4.17	12.59	95.28%	14.50	0.29	0.22	2.12%	0.14%	637,898	31,600	95.05%	52.57	2.79	18.82	15.00	0.19	3.72
Sat 16	2.72%	20.28%	0.14%	39,500	60.08	4.48	13.41	95.51%	16.00	0.28	0.23	2.45%	0.14%	200,437	53,100	73.51%	30.04	5.42	5.54	16.00	0.34	1.17
Sun 17	3.07%	23.15%	0.13%	33,600	75.10	4.30	17.46	96.31%	14.00	0.31	0.18	2.48%	0.13%	210,583	68,300	68.52%	15.02	6.86	2.19	13.00	0.53	1.14
Mon 18	2.78%	18.92%	0.15%	58,001	105.14	6.72	15.64	95.36%	20.00	0.34	0.36	3.69%	0.15%	222,346	37,299	83.22%	15.02	5.74	2.62	14.00	0.41	1.39
Tue 19	2.75%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 20	2.53%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 21	2.40%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 22	2.81%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 23	2.07%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 24	2.70%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 25	2.38%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 26	3.02%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 27	2.75%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 28	2.49%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 29	2.85%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 30	2.86%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				844,103	1141.52	87.73	13.01	94.79%	294.50	4.88	5.13			3,274,643	546,200	83.32%	435.58	77.84	5.60	189.50	6.83	19.51
Average =	2.55%	19.41%	0.14%	28,137	38.05	2.92	13.18	94.79%	9.82	0.30	0.17	3.81%	0.14%	109,155	18,207	80.89%	14.52	4.87	6.26	6.32	0.43	1.22
Minimum =	1.56%	17.58%	0.10%	0	0.00	0.00	8.88	90.57%	0.00	0.19	0.00	2.12%	0.10%	0	0	67.21%	0.00	1.64	2.19	0.00	0.19	0.17
Maximum =	3.07%	23.15%	0.21%	72,701	105.14	9.31	17.46	96.75%	24.00	0.64	0.61	7.89%	0.21%	637,898	66,300	95.05%	52.57	9.01	18.82	16.00	0.81	3.72

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

June 2012 Solids Operations Report

6 AM - 2 PM

Date	Hours of Operation	Mix Tank Level	% Solids								BFP Sludge Processed				BFP Polymer			Thicknd	GBT Polymer		Hours of Operation					
			1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Fri 1	8	6.71	2.30%	19.41%	0.30%	3.22%	2.63%	17.35%	0.20%		0	24,700	23,400	24,601	4	7	0	25,311	8,300	1	0	0.00	7.00	0.00	7.50	0.00	3.50
Sat 2	8	9.88	2.30%	18.70%	0.20%	3.25%	2.00%	18.80%	0.18%	1.87%	0	18,200	25,200	22,200	7	7	94,500	141,981	65,700	3	3	0.00	6.00	7.00	7.00	8.00	8.00
Sun 3	8	9.97	2.75%	19.25%	1.80%	3.92%	2.50%	17.90%	0.20%	2.75%	0	0	21,600	19,500	3	4	88,600	145,119	66,100	4	3	0.00	0.00	7.00	7.00	7.00	7.00
Mon 4	8	8.42	2.43%	19.56%	0.26%	2.86%	1.76%	18.65%	0.16%	2.70%	0	20,500	24,000	25,100	6	5	88,100	137,106	34,600	3	2	0.00	6.50	6.00	8.00	6.00	7.00
Tue 5	8	3.60	2.15%	19.59%	0.10%		1.45%	16.35%	0.30%		0	25,300	21,600	23,700	7	5	15,100	22,184	9,900	1	0	0.00	7.50	7.50	8.00	2.00	2.00
Wed 6	8	8.74	2.25%	18.30%	0.17%	2.32%	3.20%	20.15%	0.19%	3.20%	0	20,800	23,100	20,701	7	6	63,400	151,485	32,400	2	1	0.00	7.50	7.50	7.50	6.00	6.00
Thu 7	8	8.28	0.84%	17.25%	0.25%	2.35%	1.16%	17.00%	0.18%	2.20%	0	23,200	0	19,800	3	3	73,500	124,775	25,101	2	2	0.00	7.50	0.00	7.50	6.50	6.50
Fri 8	8	8.24	2.25%	16.50%	0.18%	2.05%	2.10%	18.40%	0.20%	3.00%	0	21,000	15,000	20,100	3	6	38,100	110,484	28,299	3	0	0.00	7.00	6.50	7.00	5.00	7.00
Sat 9																											
Sun 10																											
Mon 11	8	9.17	1.60%	19.10%	0.26%	1.76%	2.29%	18.90%	0.18%	2.75%	0	18,000	16,500	15,300	5	3	39,400	120,755	28,000	3	0	0.00	7.00	7.00	7.00	4.50	6.00
Tue 12	8	8.03	2.10%	18.75%	0.15%	1.95%	1.85%	17.67%	0.09%	2.10%	0	11,800	22,200	21,100	2	6	35,500	119,836	17,999	3	0	0.00	7.00	7.00	7.00	4.00	6.50
Wed 13	8	8.35	1.99%	18.40%	0.25%	1.60%	2.60%	19.10%	0.20%	2.10%	0	8,700	18,900	21,700	4	4	37,400	133,152	19,701	3	1	0.00	8.00	8.00	8.00	4.00	7.00
Thu 14	8	7.47	3.05%	20.40%	0.25%	1.50%	2.96%	19.70%	0.16%	2.78%	0	0	18,000	19,000	2	4	45,300	152,291	21,801	2	1	0.00	0.00	7.00	7.00	4.50	7.50
Fri 15	8	7.88	2.58%	19.20%	0.21%	2.50%	2.25%		0.16%	2.63%	0	0	21,000	17,500	3	4	525,010	112,888	31,600	4	3	0.00	0.00	7.00	7.50	8.00	7.00
Sat 16	8	8.94	1.50%	18.71%	0.18%	2.45%	2.51%	19.90%	0.19%	3.05%	0	0	21,000	18,500	4	4	65,700	134,737	53,100	3	1	2.00	0.00	7.00	7.00	8.00	8.00
Sun 17	8	10.15	2.60%	25.05%	0.34%	3.31%	2.90%	18.93%	0.24%	2.55%	0	0	16,500	17,100	6	4	53,199	157,384	66,300	0	2	0.00	0.00	7.00	7.00	5.00	8.00
Mon 18	8	9.24	2.05%	17.90%	0.18%	2.61%	2.00%	17.50%	0.27%	2.54%	0	18,300	19,200	20,501	7	7	65,200	157,146	37,299	0	2	0.00	6.00	6.50	7.50	6.50	7.50
Tue 19																											
Wed 20																											
Thu 21																											
Fri 22																											
Sat 23																											
Sun 24																											
Mon 25																											
Tue 26																											
Wed 27																											
Thu 28																											
Fri 29																											
Sat 30																											
	128		2.17%	19.13%	0.32%	2.51%	2.26%	18.42%	0.19%	2.59%	0	210,500	307,200	326,403	73	79	1,328,009	1,946,634	546,200	37	21	2.00	77.00	98.00	117.50	85.00	104.50
		3.60	0.84%	16.50%	0.10%	1.50%	1.16%	16.35%	0.09%	1.87%																	
		10.15	3.05%	25.05%	1.80%	3.92%	3.20%	20.15%	0.30%	3.20%	0	25,300	25,200	25,100	7	7	525,010	157,384	66,300	4	3	2.00	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

June 2012 Solids Operations Report

2 PM - 10 PM

Date	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened	GBT % Solids Filtrate (I-3750-85)	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Fri 1	3.07%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 2	2.44%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 3	2.96%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 4	2.29%		0.21%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 5	2.17%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 6	2.31%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 7	1.56%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 8	2.32%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 9	2.04%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 10	2.66%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 11	2.41%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 12	2.24%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 13	2.55%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 14	2.67%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 15	2.60%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 16	2.72%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 17	3.07%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 18	2.78%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 19	2.75%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 20	2.53%	19.05%	0.13%	21,720	30.04	2.29	13.11	95.51%	8.00	0.29	0.12	6.29%	0.13%	97,940	25,000	74.47%	22.53	6.56	3.44	8.00	0.82	0.53
Thu 21	2.40%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 22	2.81%	19.52%	0.11%	18,500	7.51	2.17	3.46	96.63%	8.00	0.27	0.08	6.10%	0.11%	113,367	33,800	70.19%	22.53	8.60	2.62	8.00	1.07	0.52
Sat 23	2.07%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 24	2.70%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 25	2.39%	20.51%	0.11%	18,401	22.53	1.83	12.29	95.91%	24.00	0.08	0.08	6.08%	0.11%	108,156	24,501	77.35%	22.53	6.21	3.63	16.00	0.39	0.50
Tue 26	3.02%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 27	2.75%	19.73%	0.15%	31,921	37.55	3.66	10.26	95.27%	12.00	0.31	0.20	6.72%	0.15%	103,090	26,199	74.59%	22.53	7.34	3.07	8.00	0.92	0.64
Thu 28	2.49%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 29	2.85%	21.76%	0.14%	20,880	30.04	2.48	12.11	95.70%	12.00	0.21	0.12	5.89%	0.14%	114,270	27,401	76.02%	30.04	6.73	4.46	8.00	0.84	0.67
Sat 30	2.86%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				111,422	127.67	12.44	10.27	95.81%	64.00	1.15	0.61			536,823	136,901	74.50%	120.16	35.44	3.39	46.00	4.04	2.86
Average =	2.55%	20.11%	0.14%	3,714	4.26	0.41	10.24	95.81%	2.13	0.23	0.02	6.22%	0.13%	17,894	4,563	74.52%	4.01	7.09	3.44	1.60	0.61	0.57
Minimum =	1.56%	19.05%	0.10%	0	0.00	0.00	3.46	95.27%	0.00	0.08	0.00	5.89%	0.11%	0	0	70.19%	0.00	6.21	2.62	0.00	0.39	0.50
Maximum =	3.07%	21.76%	0.21%	31,921	37.55	3.66	13.11	96.63%	24.00	0.31	0.20	6.72%	0.15%	114,270	33,800	77.35%	30.04	8.60	4.46	16.00	1.07	0.67

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

June 2012 Solids Operations Report

2 PM - 10 PM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd Sludge	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Fri 1																										
Sat 2																										
Sun 3																										
Mon 4																										
Tue 5																										
Wed 6																										
Thu 7																										
Fri 8																										
Sat 9																										
Sun 10																										
Mon 11																										
Tue 12																										
Wed 13																										
Thu 14																										
Fri 15																										
Sat 16																										
Sun 17																										
Mon 18																										
Tue 19																										
Wed 20	4									0	0	10,320	11,400	2	2	2,900	95,040	25,000	2	1	0.00	0.00	4.00	4.00	4.00	4.00
Thu 21																										
Fri 22	4									0	0	9,000	9,500	0	1	40,700	72,667	33,800	2	1	0.00	0.00	4.00	4.00	4.00	4.00
Sat 23																										
Sun 24																										
Mon 25	4									0	0	9,600	8,801	2	1	47,400	60,756	24,501	2	1	0.00	8.00	8.00	8.00	8.00	8.00
Tue 26																										
Wed 27	4									0	12,100	10,320	9,501	3	2	42,601	60,489	26,199	2	1	0.00	4.00	4.00	4.00	4.00	4.00
Thu 28																										
Fri 29	4									0	0	10,980	9,900	2	2	43,201	71,069	27,401	2	2	0.00	4.00	4.00	4.00	4.00	4.00
Sat 30																										
	20									0	12,100	50,220	49,102	9	8	176,802	360,021	136,901	10	6	0.00	16.00	24.00	24.00	24.00	24.00
	Min:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%																	
	Max:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0	12,100	10,980	11,400	3	2	47,400	95,040	33,800	2	2	0.00	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

RECEIVED
EPA REGION III
FEB 28 2012
WATER PROTECTION DIVISION
(3WP00)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PERMIT NUMBER	DISCHARGE NUMBER
PA0026549	001-A

DMR Mailing ZIP CODE: 196013690

MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2012	TO	01/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	57	******		0	DAILY	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	7.8	******	******		0	7/DAILY	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	7.9		0	DAILY	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1347	1473		******	9	10		0	DAILY	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	1346	******		******	9.4	******		0	DAILY	COMP24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	17.03	22.48		******	******	******	******	0	CONTINUOUS	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.02	******		0	2/SHIFT	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	(610)655-6258 AREA Code / NUMBER		2/22/2012 MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NONE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2012	TO	01/31/2012

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01365	******		******	<0.00010	******		0	WEEKLY	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	8	******		0	DAILY	GRAB
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1312	1518		******	9	10		0	DAILY	COMP24
80082 1 1 Effluent Gross	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	(610)655-6258		2/22/2012
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NONE

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* January 2012

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to incineration)***

Hauled as liquid sludge

Gallons	X	% Solids	X	Conv. Factor	=	Dry Tons
	X		X	0.0000417	=	0.00
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
				TOTAL	=	0.00

Hauled as dewatered sludge

Tons dewatered sludge	X	% Solids	X	0.01	=	Dry Tons
0.00	X	17.82	X	0.01	=	0.00
0.00	X	17.82	X	0.01	=	0.00
0.00	X	17.82	X	0.01	=	0.00
945.36	X	17.82	X	0.01	=	168.46
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
				TOTAL	=	168.46

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	168.46
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

_____ *Signature*

Waste Water Superintendent *Title*

610-655-6258 *Telephone*

_____ *Date*

City of Reading 3-C Watershed *for the Month* January 2012

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

	January 2012					City of Reading Wastewater Treatment Plant								
	Final Effluent								preSO2		COLOR			Air Temp.
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Jan	20.4	16	10	7	5.2	16.43	8.0	7.9	0.45		1	60	0.1	34	56
2-Jan	20.3	13	7	8	11.6	16.19	8.3	7.9	0.57		11	65	0.0	31	46
3-Jan	16.7	14	5	10	14.0	16.49	8.3	7.8	0.52		2	60	0.0	15	31
4-Jan	11.7	22	13	12	12.3	16.26	9.2	7.6	0.42		5	60	0.0	11	28
5-Jan	14.3	19	9	9	11.4	16.06	8.8	7.5	0.30		114	60	0.0	21	41
6-Jan	12.8	14	8	8	8.4	16.00	8.5	7.5	0.34		39	60	0.0	24	58
7-Jan	16.2	13	10	8	7.7	16.98	8.1	7.5	0.49		13	60	0.0	27	63
8-Jan	16.9	15	7	10	6.4	14.76	8.4	7.4	0.93		1	60	0.0	25	47
9-Jan	15.0	18	9	10	10.0	17.18	8.2	7.4	0.76		2	60	0.0	24	44
10-Jan	15.4	12	3	9	11.8	15.09	8.0	7.6	0.45		32	60	0.0	27	48
11-Jan	16.0	20	11	11	12.0	18.80	8.4	7.7	0.42		56	60	0.2	23	48
12-Jan	19.7	18	9	12	10.4	22.48	7.8	7.7	0.83		9	50	0.8	42	49
13-Jan	17.2	15	8	10	6.3	17.69	8.3	7.6	0.69		11	50	0.1	27	50
14-Jan	13.5	18	8	8	5.4	15.93	9.1	7.6	0.58		11	50	0.0	26	35
15-Jan	17.2	20	9	6	6.9	15.77	9.5	7.7	0.48		19	50	0.0	14	28
16-Jan	13.6	14	8	12	9.4	17.02	9.4	7.6	0.83		3	50	0.0	11	37
17-Jan	19.0	20	12	8	10.9	16.27	8.5	7.8	0.49		6	60	0.2	36	55
18-Jan	15.8	16	10	9	8.2	15.64	8.3	7.6	0.48		15	50	0.0	23	54
19-Jan	12.8	22	13	14	10.4	15.72	9.0	7.6	0.40		17	50	0.0	15	35
20-Jan	13.5	19	10	11	10.2	14.81	8.6	7.8	0.42		19	50	0.0	23	34
21-Jan	20.9	16	8	10	11.4	14.73	9.0	7.6	0.37		4	50	0.0	23	30
22-Jan	16.2	15	8	8	9.0	15.23	9.4	7.6	0.31		7	60	0.0	14	29
23-Jan	13.7	20	13	10	12.5	19.86	9.0	7.7	0.50		6	65	0.5	28	48
24-Jan	16.2	19	10	9	9.5	17.94	8.3	7.3	0.53		9	50	0.0	36	52
25-Jan	17.4	18	11	8	9.5	16.64	9.3	7.4	0.75		1	60	0.0	33	46
26-Jan	18.3	16	8	6	9.5	20.61	8.8	7.5	0.77		7	65	0.3	34	40
27-Jan	15.1	20	10	15	10.3	22.44	8.2	7.3	1.13		2	60	0.4	40	58
28-Jan	12.2	16	8	8	5.3	17.80	8.9	7.3	0.55		4	60	0.0	36	49
29-Jan	14.5	23	11	9	7.3	16.86	9.0	7.5	0.63		4	60	0.0	30	46
30-Jan	15.2	18	8	8	9.7	17.36	9.1	7.5	0.54		9	60	0.0	31	41
31-Jan	12.9	19	11	9	10.0	16.78	9.0	7.7	0.51		9	65	0.0	25	64
						See DO profile					<				
TOTAL		538	285	292	292.8	527.8	###	234.9	17.44			1780	2.8		
Week 1	16.1	16	9	9	10.1	16.34	8.46	7.64	0.44		26	61	0.0	23	46
Week 2	16.2	17	8	10	8.9	17.42	8.29	7.56	0.67		17	56	0.2	28	46
Week 3	16.1	18	10	10	9.6	15.71	8.89	7.66	0.50		12	51	0.0	21	39
Week 4	15.6	18	10	9	9.4	18.65	8.84	7.44	0.65		5	60	0.2	32	46
Monthly	15.8	17	9	9	9.4	17.03	8.66	7.58			8	57	0.1	26	45
Weekly averages: 1/1 - 7, 1/8-14, 1/15-21 and 1/22-28. 1/29-31 will be included in February's weekly averages.															
Min =	11.7	12	3	6	5.2	14.73	7.8	7.3	0.30		1	50	0.0	11	28
Max =	20.9	23	13	15	14.0	22.48	9.5	7.9	1.13		114	65	0.8	42	64
DISCHARGE LIMITATIONS															
Ave Monthly			25	30	18		Min.	6.0			10,000	186			
Ave Weekly			40	45			of	to							
Inst. Max			50	60	24		5.0	9.0				465			

Print Date: 2/21/2012

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS							TSS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent		Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day		lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Jan	5,313	31,403	36,715	264		36,980	2,192	1,370	4,857	26,757	31,615	5,365	36,980	959		2,690	641	1,830	2,471	2,410	2,535	4,881	714
2-Jan	5,539	45,922	51,461	-17,801		33,660	1,755	945	5,355	34,562	39,917	-16,870	23,046	1,080		2,663	557	2,054	2,611	4,303	7,064	6,914	1,566
3-Jan	7,589	34,786	42,376	-6,551	841	35,824	1,925	688	6,375	44,979	51,354	-15,530	35,824	1,375		1,826	592	1,367	1,959	2,880	6,686	4,840	1,925
4-Jan	4,040	45,883	49,923	-7,742		42,182	2,983	1,763	5,887	29,126	35,013	10,513	45,525	1,627		4,015	638	1,815	2,453	3,218	12,383	5,671	1,668
5-Jan	4,343	46,037	50,380	-15,793	301	34,588	2,545	1,205	5,604	27,822	33,427	-6,525	26,902	1,205		3,299	600	1,811	2,411	2,098	7,061	4,509	1,527
6-Jan	5,576	59,834	65,411	-9,932		55,479	1,868	1,068	5,963	38,943	44,906	4,896	49,802	1,068		240	588	1,704	2,292	1,527	5,521	3,819	1,120
7-Jan	5,493	35,440	40,932	-2,061		38,872	1,841	1,416	5,226	31,265	36,491	-1,174	35,316	1,133		202	653	1,572	2,225	1,176	4,764	3,401	1,093
8-Jan	4,369	33,290	37,659	-10,169	250	27,490	1,846	862	6,145	96,149	102,294	-67,743	34,552	1,231		255	623	1,860	2,483	657	5,722	3,140	782
9-Jan	5,388	44,042	49,430	-9,558		39,871	2,579	1,290	5,926	43,659	49,585	-11,554	38,031	1,433		1,949	601	1,781	2,382	2,894	5,164	5,275	1,433
10-Jan	2,802	26,455	29,257	-17,172		12,085	1,510	378	5,604	66,833	72,438	-37,392	35,046	1,133		1,965	642	1,792	2,433	2,594	5,824	5,027	1,485
11-Jan	4,414	36,506	40,919	-3,299		37,620	3,136	1,725	7,440	69,950	77,390	-31,111	46,279	1,725		1,165	690	2,226	2,916	1,742	5,667	4,658	1,882
12-Jan	5,554	37,156	42,711	-3,473	661	39,238	3,375	1,687	5,777	63,095	68,872	-18,094	50,778	2,250		3,243	596	1,659	2,255	2,699	4,848	4,955	1,950
13-Jan	4,666	37,075	41,741	189		41,930	2,213	1,180	5,226	23,373	28,600	2,518	31,118	1,475		673	600	1,622	2,222	678	2,760	2,901	929
14-Jan	4,718	34,561	39,279	-5,949		33,330	2,391	1,063	5,053	41,868	46,921	-11,524	35,397	1,063		889	606	1,738	2,344	808	1,764	3,152	721
15-Jan	5,108	41,683	46,792	-11,086		35,705	2,630	1,184	5,021	37,316	42,337	-9,971	32,366	789		988	581	1,767	2,347	1,287	1,858	3,635	908
16-Jan	5,632	44,210	49,842	-8,662		41,180	1,987	1,136	6,575	38,119	44,694	-13,038	31,657	1,703		3,693	715	1,926	2,641	2,056	11,736	4,697	1,334
17-Jan	4,245	39,425	43,669	-5,359	291	38,311	2,714	1,628	5,972	30,087	36,059	-1,739	34,320	1,086		911	638	1,784	2,423	1,661	3,686	4,084	1,479
18-Jan	5,728	50,913	56,641	-9,212		47,429	2,087	1,304	5,501	25,157	30,658	2,670	33,328	1,174		1,008	601	1,777	2,378	1,506	5,421	3,884	1,072
19-Jan	4,720	37,401	42,121	45	797	42,165	2,884	1,704	6,007	24,043	30,051	4,922	34,972	1,835		5,456	498	1,727	2,225	1,483	5,578	3,708	1,363
20-Jan	5,756	37,320	43,076	-1,788		41,288	2,347	1,235	7,175	26,802	33,977	7,311	41,288	1,359		1,058	656	1,747	2,403	2,272	6,882	4,676	1,260
21-Jan	5,661	34,365	40,025	4,119		44,144	1,966	983	6,333	22,773	29,106	13,210	42,316	1,228		197	642	2,072	2,714	1,204	4,857	3,918	1,400
22-Jan	6,091	39,617	45,708	-7,002	140	38,706	1,905	1,016	5,104	31,287	36,391	-7,748	28,642	1,016		257	617	2,875	3,492	-499	5,791	2,993	1,148
23-Jan	4,966	38,228	43,195	8,194		51,389	3,313	2,153	7,019	30,582	37,602	22,575	60,177	1,656		2,733	838	1,749	2,587	2,790	5,636	5,377	2,070
24-Jan	4,891	36,982	41,873	-3,643		38,231	2,843	1,496	6,326	24,465	30,791	5,655	36,446	1,347		2,588	600	1,489	2,089	2,244	4,406	4,333	1,417
25-Jan	5,476	42,974	48,451	-2,851		45,599	2,498	1,527	5,077	23,297	28,374	13,261	41,634	1,110		1,534	590	1,923	2,513	1,268	5,086	3,781	1,314
26-Jan	4,582	42,024	46,606	11,685	480	58,291	2,750	1,375	6,110	28,922	35,032	31,136	66,168	1,031		1,133	635	1,866	2,501	2,351	5,482	4,852	1,628
27-Jan	5,207	39,980	45,188	-8,990		36,198	3,743	1,871	7,365	17,606	24,971	-2,965	22,006	2,807		1,182	562	1,541	2,102	2,586	2,678	4,688	1,928
28-Jan	6,291	57,151	63,442	-6,474		56,967	2,375	1,188	6,887	32,597	39,484	44,716	84,200	1,188		2,380	560	1,810	2,369	1,285	1,204	3,654	779
29-Jan	4,854	32,933	37,787	766	226	38,553	3,234	1,547	4,595	17,084	21,679	14,845	36,524	1,266		1,162	576	1,626	2,202	1,450	2,550	3,652	1,019
30-Jan	5,848	47,411	53,260	-3,964		49,296	2,606	1,158	5,475	32,972	38,447	6,544	44,991	1,158		1,598	510	1,519	2,029	2,220	6,335	4,249	1,409
31-Jan	20,842	48,622	69,464	-21,197		48,267	2,659	1,539	5,121	24,311	29,432	19,851	49,283	1,260		2,328	584	1,789	2,373	2,301	5,951	4,674	1,394
TOTAL	175,705	1,259,629	1,435,334	-174,468	3,987	1,260,865	76,703	40,684	182,101	1,105,806	1,287,908	-42,993	1,244,914	41,770		55,276	19,028	55,819	74,847	59,153	162,899	134,000	41,718
Week 1	5,413	42,758	48,171	-8,516	571	39,655	2,159	1,208	5,610	33,351	38,960	-2,761	36,199	1,207		2,134	610	1,736	2,346	2,516	6,573	4,862	1,373
Week 2	4,559	35,584	40,142	-7,062	456	33,081	2,436	1,169	5,882	57,847	63,729	-24,986	38,743	1,473		1,448	623	1,811	2,434	1,725	4,536	4,158	1,312
Week 3	5,264	40,760	46,024	-4,563	544	41,460	2,374	1,311	6,083	29,186	35,269	481	35,750	1,311		1,902	619	1,829	2,447	1,639	5,717	4,086	1,260
Week 4	5,358	42,422	47,780	-1,297	310	46,483	2,775	1,518	6,270	26,965	33,235	15,233	48,468	1,451		1,686	629	1,893	2,522	1,718	4,326	4,240	1,469
Monthly	5,668	40,633	46,301	-5,628	443	40,673	2,474	1,312	5,874	35,671	41,545	-1,387	40,159	1,347		1,783	614	1,801	2,414	1,908	5,255	4,323	1,346
Min =	2802	26455	29257	-21197	140	12,085	1,510	378	4,595	17,084	21,679	-67,743	22,006	789		197	498	1,367	1,959	-499	1,204	2,901	714
Max =	20842	59834	69464	11685	841	58,291	3,743	2,153	7,440	96,149	102,294	44,716	84,200	2,807		5,456	838	2,875	3,492	4,303	12,383	6,914	2,070
								4,170						7,130									3,000
								6,255						10,696									

Print Date: 2/21/2012

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Jan								
2-Jan								
3-Jan	0.00030	0.00911	< 0.00010	< 0.00809	0.00020	0.02225	< 0.00010	< 0.01375
4-Jan								
5-Jan								
6-Jan								
7-Jan								
8-Jan								
9-Jan								
10-Jan	< 0.00010	< 0.00280	0.00010	0.00928	0.00020	0.02417	< 0.00010	< 0.01259
11-Jan								
12-Jan								
13-Jan								
14-Jan								
15-Jan								
16-Jan								
17-Jan	< 0.00010	< 0.00293	< 0.00010	< 0.01037	0.00010	0.01330	< 0.00010	< 0.01357
18-Jan	< 0.00010	< 0.00284	< 0.00010	< 0.00998	0.00010	0.01282	< 0.00010	< 0.01304
19-Jan								
20-Jan								
21-Jan								
22-Jan								
23-Jan								
24-Jan	< 0.00010	< 0.00326	0.00010	0.00948	0.00020	0.02549	< 0.00010	< 0.01496
25-Jan								
26-Jan								
27-Jan								
28-Jan								
29-Jan								
30-Jan								
31-Jan	< 0.00010	< 0.00298	0.00010	0.00972	0.00020	0.02540	< 0.00010	< 0.01399
Total	0.00080	0.02391	0.00060	0.05694	0.00100	0.12343	0.00060	0.08191
Week 1	0.00030	0.00911	< 0.00010	< 0.00809	0.00020	0.02225	< 0.00010	< 0.01375
Week 2	< 0.00010	< 0.00280	0.00010	0.00928	0.00020	0.02417	< 0.00010	< 0.01259
Week 3	< 0.00010	< 0.00288	< 0.00010	< 0.01018	0.00010	0.01306	< 0.00010	< 0.01331
Week 4	< 0.00010	< 0.00326	0.00010	0.00948	0.00020	0.02549	< 0.00010	< 0.01496
Monthly	< 0.00013	< 0.00399	< 0.00010	< 0.00949	0.00017	0.02057	< 0.00010	< 0.01365
Min =	< 0.00010	< 0.00280	0.00010	0.00809	0.00010	0.01282	< 0.00010	< 0.01259
Max =	0.00030	0.00911	0.00010	0.01037	0.00020	0.02549	< 0.00010	< 0.01496
							0.00023	0.055
							0.00046	

	January 2012				City of Reading Wastewater Treatment Plant																				Laboratory Process Control Data							
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent						
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jan	175	160	7.7	21.1	338	288	8.3	19.7	298	256	20.0	2	44	19.6	300	300	39.6	7.3	10.3	12.4	14.78	175	58	21.7	1.1	7.0	26	23	19.6		5.1	7.3	24	14
2-Jan	180	174	7.9	18.1	380	286	7.6	17.0	339	263	17.2	-117	-111	28.4	222	152	45.6	7.7	9.2	15.9	18.18	185	101	26.9	0.2	7.1	40	38	24.6		5.7	7.5	ns	ns
3-Jan	250	210	7.7	19.5	430	556	7.6	16.9	381	462	17.6	-59	-140	25.9	322	322	43.5	7.5	11.5	16.1	13.34	205	78	30.9	0.1	7.1	33	32	24.8		6.3	7.6	39	19
4-Jan	140	204	8.1	22.1	460	292	7.4	18.2	388	272	19.1	-60	82	25.0	328	354	44.1	7.8	9.7	15.3	15.42	220	84	26.3	3.0	6.9	42	35	22.5	240	3.8	7.5	42	21
5-Jan	155	200	7.8	21.4	460	278	7.4	18.1	393	261	18.8	-123	-51	16.4	270	210	35.2	7.1	9.8	15.9	15.36	200	76	26.0	0.1	6.8	48	45	25.8		5.5	7.3	26	13
6-Jan	202	216	8.1	21.3	590	384	7.6	16.8	507	348	17.8	-77	38	11.8	430	386	29.6	7.5	10.5	15.0	15.47	205	71	21.8	0.1	6.7	32	29	18.2	300	5.0	7.4	27	16
7-Jan	185	176	7.9	22.0	399	352	8.2	17.7	345	308	18.8	-17	-10	9.9	328	298	28.7	7.2	9.4	17.5	14.21	215	78	21.9	0.1	6.9	34	40	18.5		4.5	7.4	24	17
8-Jan	155	218	8.0	22.1	340	982	7.6	19.0	299	811	19.7	-81	-537	5.2	218	274	24.9	7.3	13.4	15.5	15.12	165	78	20.9	0.1	7.0	61	52	18.3		5.2	7.3	22	9
9-Jan	200	220	7.9	22.3	460	456	7.4	18.6	403	404	19.4	-78	-94	23.6	325	310	43.0	7.4	10.5	15.8	14.71	180	78	26.9	0.1	7.0	30	31	22.2	280	4.5	7.9	17	18
10-Jan	100	200	7.9	22.9	285	720	7.6	19.3	242	599	20.1	-142	-309	21.5	100	290	41.6	7.5	11.9	15.2	14.49	100	72	27.1	2.4	7.0	39	29	22.6		4.3	7.4	20	17
11-Jan	140	236	8.2	21.9	310	594	7.7	18.9	274	518	19.5	-22	-208	11.7	252	310	31.2	7.4	9.2	16.4	17.90	192	75	25.5	1.9	7.0	36	30	23.8	320	4.8	7.3	28	17
12-Jan	150	156	7.6	16.1	318	540	7.4	14.2	278	448	14.7	-23	-118	17.5	255	330	32.2	7.3	7.1	16.3	18.45	183	72	19.9	6.6	7.1	35	25	18.2		1.8	7.1	24	16
13-Jan	150	168	7.7	19.3	368	232	7.4	16.1	317	217	16.9	1	19	5.1	318	236	22.0	7.3	11.3	15.0	15.81	220	74	17.7	3.3	7.1	30	32	14.9	260	5.1	7.5	24	15
14-Jan	155	166	7.8	19.9	350	424	7.7	17.6	304	363	18.1	-46	-89	6.3	258	274	24.4	7.4	12.1	15.2	15.49	208	71	19.1	1.0	7.0	44	29	15.4		6.0	7.5	30	11
15-Jan	175	172	7.7	19.9	420	376	7.4	17.8	364	330	18.3	-86	-78	10.0	278	252	28.3	7.4	11.2	14.8	15.40	230	78	19.4	1.4	7.1	46	29	16.5		6.8	7.6	28	17
16-Jan	185	216	7.9	23.5	450	388	7.4	19.6	387	347	20.5	-67	-101	16.0	320	246	36.5	7.3	11.6	14.5	15.43	268	56	27.6	3.3	7.1	52	62	20.3	260	1.7	7.5	24	16
17-Jan	145	204	9.1	21.8	380	290	7.3	17.2	328	271	18.2	-40	-13	12.5	288	258	30.7	7.5	12.5	15.0	15.95	210	76	22.8	2.8	7.0	42	31	19.2		3.4	7.7	33	13
18-Jan	202	194	7.8	21.2	510	252	7.6	17.8	442	239	18.6	-72	21	11.7	370	260	30.3	7.4	11.2	15.0	15.37	200	67	23.0	0.9	7.0	36	28	19.5	220	4.7	7.5	24	15
19-Jan	165	210	7.8	17.4	392	252	7.5	18.1	340	242	17.9	0	40	12.0	340	282	29.9	7.5	12.0	14.8	14.87	230	89	23.1	2.8	7.0	66	89	21.5		5.7	7.3	27	9
20-Jan	215	268	8.0	24.5	440	316	7.6	20.6	386	304	21.5	-16	66	20.4	370	370	41.9	7.2	10.2	14.0	13.38	245	90	27.9	0.1	6.8	33	23	23.0	240	3.4	7.5	32	19
21-Jan	202	226	7.7	22.9	335	222	7.6	20.2	306	223	20.8	32	101	9.2	338	324	30.0	7.2	19.1	6.2	15.66	208	84	23.6	1.0	7.0	39	33	21.8		5.9	7.2	26	17
22-Jan	222	186	7.9	22.5	390	308	7.5	28.3	354	282	27.1	-54	-60	-3.9	300	222	23.2	7.2	11.5	9.2	15.47	225	78	22.6	1.1	7.0	55	51	19.2		6.1	7.2	48	21
23-Jan	150	212	7.8	25.3	330	264	7.7	15.1	290	252	17.4	55	152	18.7	345	404	36.1	7.6	12.5	14.5	17.86	195	62	21.4	0.1	6.8	66	91	21.5	220	4.2	7.4	33	25
24-Jan	150	194	7.8	18.4	390	258	7.5	15.7	329	242	16.4	-29	44	17.6	300	286	34.0	7.7	13.1	14.3	15.28	240	76	21.5	0.4	7.0	42	37	17.5		4.3	7.4	28	16
25-Jan	192	178	7.8	20.7	380	206	7.9	17.0	342	200	17.7	-20	94	9.0	322	294	26.7	7.6	14.2	14.9	16.98	205	70	20.8	8.0	6.9	39	36	20.1	280	3.2	7.4	ns	ns
26-Jan	135	180	7.8	18.7	340	234	7.5	15.1	296	222	15.9	74	198	14.9	370	420	30.8	7.4	10.8	14.5	18.89	208	74	20.8	0.2	6.8	42	36	17.5		4.3	7.3	ns	ns
27-Jan	140	198	8.0	15.1	327	144	7.4	12.6	283	157	13.2	-56	-19	16.2	227	138	29.4	7.5	11.2	14.3	19.12	175	89	15.8	0.5	6.9	54	67	14.8	280	2.6	7.2	ns	ns
28-Jan	190	208	7.6	16.9	540	308	7.7	17.1	457	284	17.1	-47	322	9.2	410	606	26.3	7.3	17.0	13.8	16.66	200	85	17.6	0.1	7.0	34	30	15.1		5.7	7.5	25	21
29-Jan	150	142	7.7	17.8	320	166	7.6	15.8	279	160	16.3	6	110	10.7	285	270	27.0	7.5	14.0	14.0	16.22	180	69	16.5	0.6	7.0	40	35	13.6		5.6	7.2	34	19
30-Jan	188	176	8.7	16.4	440	306	7.6	14.1	384	277	14.6	-29	47	16.0	355	324	30.6	7.2	12.0	14.1	16.65	240	78	22.5	1.6	6.8	36	31	18.8	260	5.3	7.3	25	17
31-Jan	700	172	8.2	19.6	500	250	7.7	18.4	547	232	18.7	-167	156	18.1	380	388	36.8	7.2	13.0	14.5	15.23	240	85	24.7	4.8	6.8	49	54	17.4		0.9	7.3	27	18
					Average used due to missed samples																												
TOTAL	5843	6040	245.3	632.6	12372	10924	235.3	548.6	10882	9797	567.8	-1358	-407	446.3	9524	9390	1014.1	###	###	449.9	493.15	6352	2372	704.2	49.5	###	1301	1233	606.7	3160.0	141.3	229.1	761	446
Week 1	184	191	7.9	20.8	437	348	7.7	17.8	379	310	18.5	-65	-21	19.6	314	289	38.0	7.4	10.0	15.4	15.25	201	78	25.1	0.7	6.9	36	35	22.0	270.0	5.1	7.4	30	17
Week 2	150	195	7.9	20.6	347	564	7.5	17.7	302	480	18.3	-56	-191	13.0	247	289	31.3	7.4	10.8	15.6	16.00	178	74	22.4	2.2	7.0	39	33	19.3	286.7	4.5	7.4	24	15
Week 3	184	213	8.0	21.6	418	299	7.5	18.8	365	280	19.4	-36	5	13.1	329	285	32.5	7.3	12.5	13.5	15.15	227	77	23.9	1.7	7.0	45	42	20.3	240.0	4.5	7.5	28	15
Week 4	168	194	7.8	19.7	385	246	7.6	17.3	336	234	17.8	-11	104	11.7	325	339	29.5	7.5	12.9	13.6	17.18	207	76	20.1	1.5	6.9	47	50	18.0	260.0	4.4	7.3	34	21
Monthly	188	195	7.9	20.4	399	352	7.6	17.7	351	316	18.3	-44	-13	14.4	307	303	32.7	7.4	11.7	14.5	15.91	205	77	22.7	1.6	7.0	42	40	19.6	263.3	4.6	7.4	28	17
Min =	100	142	7.6	15	285	144	7.3	13	242	157	13.2	-167	-537	-3.9	100	138	22.0	7.1	7.1	6.2	13.34	100	56	15.8	0.1	6.7	26	23	13.6	220.0	0.9	7.1	17	9
Max =	700	268	9.1	25	590	982	8.3	28	547	811	27.1	74	322	28.4	430	606	45.6	7.8	19.1	17.5	19.12	268	101	30.9	8.0	7.1	66	91	25.8	320.0	6.8	7.9	48	25
									%Removal						%Removal																			
									95.06	97.02	48.44				94.35	96.89	71.13																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	chloride	DO	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	DO	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
12.9		105	8.6	7.4	22	12	3	5.6				7.4	7.3		383.0	361.0
ns		ns	8.3	7.7	32	14	15	12.6				7.6	7.4		377.0	1000.0
21.8		140	8.1	7.6	32	16	11	14.2		5.7	0.746	8.0	7.6	117.0	254.0	930.0
18.7	220	125	8.5	7.6	29	13	16	10.7	180			8.5	7.3		569.0	1755.0
18.6		145	8.0	7.4	24	14	11	12.2				8.1	7.1	52.0	570.0	1220.0
13.7	220	140	8.4	7.4	24	14	8	8.1	180			8.1	7.3		47.0	1080.0
14.1		115	7.2	7.6	22	11	12	8.0				7.5	7.5		54.0	1275.0
13.7		105	8.0	7.6	23	11	8	6.4		10.3	0.658	7.5	7.3	56.0	57.0	1280.0
16.7	220	125	8.5	7.6	29	10	11	9.6	200			8.0	7.6		302.0	800.0
18.3		115	7.8	7.5	33	4	10	11.7				7.3	7.5		312.0	925.0
19.1	240	130	8.1	7.6	28	13	9	12.2	200			7.7	7.4		218.0	1060.0
14.4		120	7.9	7.4	ns	ns	ns	ns				7.2	7.4	105.0	515.0	770.0
12.0	200	130	8.0	7.7	27	12	9	6.9	160			7.8	7.4		240.0	985.0
11.6		120	8.0	7.7	22	13	6	5.6				8.4	7.5		320.0	635.0
12.5		110	8.6	7.7	26	14	8	6.2				8.9	7.4		177.0	333.0
17.5	220	105	9.2	7.7	24	13	13	11.4	180			8.9	7.4		557.0	1770.0
16.0		135	7.5	7.5	30	15	5	10.9		4.5	0.680	8.0	7.4	62.0	194.0	785.0
14.2	200	135	7.9	7.7	32	15	9	8.0	180			7.7	7.7		186.0	1000.0
16.7		135	8.1	7.7	34	17	7	9.7				8.5	7.4	130.0	890.0	910.0
17.6	220	140	7.2	7.7	28	16	13	10.0	200			8.3	7.5		186.0	1210.0
17.3		150	9.5	7.6	22	14	11	11.6				8.4	7.5		56.0	1380.0
15.2		150	9.7	7.8	23	14	9	9.0				8.6	7.4	36.0	66.0	1490.0
17.3	220	230	6.8	7.6	36	20	13	12.4	200	3.2	0.622	8.3	7.4		434.0	895.0
14.2		260	7.2	7.4	31	14	9	9.3				8.0	7.4		518.0	882.0
ns	240	ns	8.2	7.5	30	16	8	9.2	180			8.6	7.5		380.0	1260.0
ns		ns	8.2	7.5	26	13	9	9.1				8.1	7.5	92.0	217.0	1050.0
ns	240	ns	7.6	7.5	32	10	13	10.5	200			7.9	7.3		406.0	920.0
11.6		145	7.9	7.5	23	10	12	5.5				8.6	7.5		767.0	388.0
9.1		120	8.6	7.6	27	13	7	7.0				8.6	7.6	46.0	237.0	520.0
15.7	220	135	8.4	7.4	26	15	9	11.5	200	6.5	0.540	8.5	7.3		227.0	900.0
17.5		135	7.5	7.4	30	15	6	11.0				8.3	7.4		397.0	1015.0
418.0	2660.0	3700.0	251.4	234.5	827	401	290	286.0	2260.0	30.2	3.246	251.1	230.3	696.0	10113.0	30784.0
16.6	220.0	128.3	8.1	7.5	26	13	11	10.2	180.0	5.7	0.746	7.9	7.4	84.5	322.0	1088.7
15.1	220.0	120.7	8.1	7.6	27	11	9	8.7	186.7	10.3	0.658	7.7	7.5	80.5	280.6	922.1
16.0	213.3	130.0	8.3	7.6	28	15	9	9.7	186.7	4.5	0.680	8.4	7.5	96.0	320.9	1055.4
14.6	233.3	196.3	7.9	7.5	29	14	10	9.3	193.3	3.2	0.622	8.3	7.4	64.0	398.3	983.6
15.5	221.7	137.0	8.1	7.6	28	13	10	9.5	188.3	6.0	0.649	8.1	7.4	77.3	326.2	993.0
9.1	200.0	105.0	6.8	7.4	22	4	3	5.5	160.0	3.2	0.540	7.2	7.1	36.0	47.0	333.0
21.8	240.0	260.0	9.7	7.8	36	20	16	14.2	200.0	10.3	0.746	8.9	7.7	130.0	890.0	1770.0

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DATE	Flow (MGD) 6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
1-Jan	11.140	2.272	0.496	3.640	OOS	14.780	16.430	8.410	OOS	0.842	56.901	#VALUE!						
2-Jan	14.490	2.992	0.766	3.690	OOS	18.180	16.190	8.420	OOS	0.847	46.315	#VALUE!						
3-Jan	9.700	1.777	0.420	3.640	OOS	13.340	16.490	8.690	OOS	0.862	65.142	#VALUE!						
4-Jan	11.960	2.228	0.684	3.460	OOS	15.420	16.260	8.650	OOS	0.846	56.096	#VALUE!						
5-Jan	12.000	2.187	0.633	3.360	OOS	15.360	16.060	8.630	OOS	0.694	56.185	#VALUE!						
6-Jan	12.160	2.104	0.554	3.310	OOS	15.470	16.000	8.790	OOS	0.613	56.820	#VALUE!						
7-Jan	10.650	2.106	0.527	3.560	OOS	14.210	16.980	8.920	OOS	0.448	62.773	#VALUE!						
8-Jan	11.740	2.365	0.667	3.380	OOS	15.120	14.760	8.840	OOS	0.536	58.466	#VALUE!						
9-Jan	11.480	2.127	0.671	3.230	OOS	14.710	17.180	8.690	OOS	0.774	59.075	#VALUE!						
10-Jan	11.130	2.049	0.668	3.360	OOS	14.490	15.090	8.960	OOS	0.755	61.836	#VALUE!						
11-Jan	14.120	2.613	0.757	3.780	OOS	17.900	18.800	9.000	OOS	0.641	50.279	#VALUE!						
12-Jan	14.010	2.557	0.707	4.440	OOS	18.450	22.480	9.290	OOS	0.755	50.352	#VALUE!						
13-Jan	12.080	2.216	0.631	3.730	OOS	15.810	17.690	5.780	OOS	0.336	36.559	#VALUE!						
14-Jan	11.840	2.314	0.582	3.650	OOS	15.490	15.930	12.000	OOS	0.333	77.469	#VALUE!						
15-Jan	11.900	2.318	0.655	3.500	OOS	15.400	15.770	8.790	OOS	0.669	57.078	#VALUE!						
16-Jan	11.780	2.180	0.686	3.650	OOS	15.430	17.020	9.010	OOS	0.795	58.393	#VALUE!						
17-Jan	12.440	2.299	0.679	3.510	OOS	15.950	16.270	8.900	0.000	0.563	55.799	0.000						
18-Jan	11.970	2.138	0.690	3.400	OOS	15.370	15.640	9.170	6.060	0.650	59.662	39.427						
19-Jan	11.440	2.095	0.647	3.430	OOS	14.870	15.720	8.980	5.790	0.735	60.390	38.937						
20-Jan	10.170	1.493	0.629	3.210	OOS	13.380	14.810	8.970	5.620	0.682	67.040	42.003						
21-Jan	12.300	2.654	0.580	3.360	OOS	15.660	14.730	9.310	5.790	0.422	59.451	36.973						
22-Jan	12.180	2.173	0.614	3.290	OOS	15.470	15.230	8.850	5.520	0.466	57.207	35.682						
23-Jan	13.890	2.533	0.756	3.970	OOS	17.860	19.860	9.350	4.600	0.755	52.352	25.756						
24-Jan	11.370	2.286	0.654	3.910	OOS	15.280	17.940	9.610	5.690	0.599	62.893	37.238						
25-Jan	13.560	1.677	0.656	3.420	OOS	16.980	16.640	9.320	4.750	0.484	54.888	27.974						
26-Jan	14.820	3.081	0.762	4.070	OOS	18.890	20.610	9.800	5.650	0.626	51.879	29.910						
27-Jan	14.660	2.661	0.613	4.460	OOS	19.120	22.440	9.460	4.860	0.349	49.477	25.418						
28-Jan	12.690	2.434	0.567	3.970	OOS	16.660	17.800	9.320	5.790	0.372	55.942	34.754						
29-Jan	12.340	2.420	0.625	3.880	OOS	16.220	16.860	9.360	3.380	0.588	57.707	20.838						
30-Jan	12.920	2.476	0.701	3.730	OOS	16.650	17.360	9.420	5.390	0.844	56.577	32.372						
31-Jan	11.660	2.146	0.624	3.570	OOS	15.230	16.780	9.250	5.170	0.703	60.735	33.946						
Total	380.590	70.971	19.901	112.560	0.000	493.150	527.820	279.940	74.060	19.584	1771.738	#VALUE!						
Week 1	11.729	2.238	0.583	3.523	#DIV/0!	15.251	16.344	8.644	#DIV/0!	0.736	57.176	#VALUE!						
Week 2	12.343	2.320	0.669	3.653	#DIV/0!	15.996	17.419	8.937	#DIV/0!	0.590	56.291	#VALUE!						
Week 3	11.714	2.168	0.652	3.437	#DIV/0!	15.151	15.709	9.019	4.652	0.645	59.688	#VALUE!						
Week 4	13.310	2.406	0.660	3.870	#DIV/0!	17.180	18.646	9.387	5.266	0.522	54.948	30.96						
Monthly	12.277	2.289	0.642	3.631	#DIV/0!	15.908	17.026	9.030	4.937	0.632	57.153	#VALUE!						
Min =	9.700	1.493	0.420	3.210	0.000	13.340	14.730	5.780	0.000	0.333	36.559	#VALUE!						
Max =	14.820	3.081	0.766	4.460	0.000	19.120	22.480	12.000	6.060	0.862	77.469	#VALUE!						

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	January 2012			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jan															
2-Jan															
3-Jan															
4-Jan	7.1	392	4980	7.1	850	4500	7.2	467	5380	7.2	138	5440	7.1	102	5200
5-Jan															
6-Jan	7.2	166	4520	7.2	673	4300	7.2	400	4720	7.2	329	5000	7.1	206	5000
7-Jan															
8-Jan	7.2	348	4700	7.2	390	4760	7.1	256	4860						
9-Jan										7.1	408	5400	7.1	171	5040
10-Jan	7.2		4700	7.0		4720	7.2		5000						
11-Jan										7.2		5000	7.1		5040
12-Jan	7.1	423	4820	7.3	254	4720	7.2	315	4920						
13-Jan										7.2	335	5140	7.1	179	4980
14-Jan															
15-Jan															
16-Jan															
17-Jan	7.2	427	5000	6.9	771	5040	7.2	579	4960						
18-Jan										7.2	367	5120	7.2	525	5000
19-Jan	7.1	223	5020	7.1	358	5380	7.2	331	5000						
20-Jan										7.1	444	5100	7.1	348	5360
21-Jan															
22-Jan	7.2	458	5240	7.1	350	4500	7.1	358	5140						
23-Jan										7.2	285	5180	7.1	433	5420
24-Jan	7.1		5020	6.8		4520	7.2		5160						
25-Jan										7.2		5360	7.3		5120
26-Jan	7.1	419	5140	7.2	685	2640	7.2	221	5180						
27-Jan										7.3	310	5280	7.1	240	5220
28-Jan															
29-Jan	7.1	802	4980	7.0	375	4860	7.0	417	4980						
30-Jan										7.1	525	5340	7.2	606	5120
31-Jan	7.1		5080	6.6		3240	7.2		5440						
Total	85.7	3658	59200	84.5	4706	53180	86.0	3344	60740	79.1	3141	57360	78.6	2810	56500
Week 1	7.2	279	4750	7.2	762	4400	7.2	434	5050	7.2	234	5220	7.1	154	5100
Week 2	7.2	386	4740	7.2	322	4733	7.2	286	4927	7.2	372	5180	7.1	175	5020
Week 3	7.2	325	5010	7.0	565	5210	7.2	455	4980	7.1	406	5110	7.1	437	5180
Week 4	7.1	439	5133	7.0	518	3887	7.2	290	5160	7.2	298	5273	7.2	337	5253
Monthly	7.1	406	4933	7.0	523	4432	7.2	372	5062	7.2	349	5215	7.1	312	5136
Min =	7.1	166	4520	6.6	254	2640	7.0	221	4720	7.1	138	5000	7.1	102	4980
Max =	7.2	802	5240	7.3	850	5380	7.2	579	5440	7.3	525	5440	7.3	606	5420

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Dissolved Oxygen -January 2012

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
1/1/2012	7.8	7.9	8.0	7.9	7.8	7.8			8.0
1/2/2012	7.9	8.0	8.1	8.1	8.1	8.1			8.3
1/3/2012	8.2	8.2	8.1	8.3	8.4	8.5			8.3
1/4/2012	8.6	8.6	8.7	8.7	8.6	8.4			9.2
1/5/2012	8.4	8.2	8.2	8.1	8.1	8.2			8.8
1/6/2012	8.1	8.0	7.8	7.8	7.7	7.7			8.5
1/7/2012	7.7	7.8	7.5	7.5	7.6	7.6			8.1
1/8/2012	7.6	7.6	7.6	7.8	7.9	7.8			8.4
1/9/2012	7.9	7.9	8.0	7.9	7.9	7.8			8.2
1/10/2012	7.7	7.6	7.5	7.6	7.6	7.7			8.0
1/11/2012	7.8	7.7	7.7	7.7	7.7	7.8			8.4
1/12/2012	7.6	7.5	7.3	7.4	7.6	7.7			7.8
1/13/2012	7.8	8.0	8.1	8.3	8.5	8.5			8.3
1/14/2012	8.5	8.6	8.7	8.7	8.6	8.7			9.1
1/15/2012	8.6	8.6	8.7	8.8	8.9	8.9			9.5
1/16/2012	8.9	8.7	8.8	8.8	8.7	8.4			9.4
1/17/2012	8.5	8.2	8.1	7.9	7.9	7.8			8.5
1/18/2012	8.0	8.0	8.2	8.4	8.5	8.6			8.3
1/19/2012	8.7	8.9	8.3	8.3	8.2	8.1			9.0
1/20/2012	8.1	8.6	8.6	8.7	8.8	8.8			8.6
1/21/2012	8.8	8.8	8.8	8.8	8.8	9.0			9.0
1/22/2012	9.0	8.9	8.7	8.8	8.9	8.9			9.4
1/23/2012	8.9	8.7	8.6	8.2	8.0	7.7			9.0
1/24/2012	7.7	8.0	8.3	8.4	8.4	8.4			8.3
1/25/2012	8.4	8.4	8.5	8.5	8.4	8.4			9.3
1/26/2012	8.4	8.4	8.0	8.0	8.0	7.8			8.8
1/27/2012	7.9	7.8	7.7	7.7	7.8	8.0			8.2
1/28/2012	8.3	8.5	8.5	8.2	8.1	8.2			8.9
1/29/2012	8.2	8.4	8.3	8.3	8.2	8.2			9.0
1/30/2012	8.2	8.2	8.1	8.4	8.3	8.3			9.1
1/31/2012	8.4	8.3	8.1	7.7	7.6	7.5			9.0
Min	7.59	7.45	7.34	7.44	7.55	7.52	0.0	Min	7.80
Max	9.00	8.90	8.80	8.82	8.93	9.00	0.0	Max	9.46
								Avg	8.66

	January 2012 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	
1-Jan	0.02	0.01	0.02	0.02	0.04	0.02	0.02	
2-Jan	0.02	0.00	0.02	0.03	0.02	0.01	0.02	
3-Jan	0.02	0.01	0.02	0.03	0.02	0.01	0.02	
4-Jan	0.00	0.02	0.01	0.00	0.01	0.02	0.01	
5-Jan	0.01	0.01	0.04	0.02	0.02	0.01	0.02	
6-Jan	0.01	0.00	0.03	0.00	0.06	0.00	0.02	
7-Jan	0.01	0.04	0.03	0.04	0.04	0.04	0.03	
8-Jan	0.03	0.02	0.14	0.04	0.02	0.03	0.05	
9-Jan	0.02	0.03	0.07	0.02	0.05	0.02	0.04	
10-Jan	0.01	0.03	0.09	0.03	0.40	0.02	0.09	0.07
11-Jan	0.01	0.03	0.03	0.00	0.02	0.02	0.02	
12-Jan	0.01	0.03	0.00	0.00	0.02	0.01	0.01	
13-Jan	0.01	0.03	0.02	0.03	0.04	0.02	0.03	
14-Jan	0.01	0.03	0.02	0.02	0.02	0.01	0.02	
15-Jan	0.01	0.00	0.01	0.00	0.01	0.00	0.01	
16-Jan	0.01	0.02	0.02	0.04	0.04	0.00	0.02	
17-Jan	0.01	0.01	0.02	0.04	0.02	0.01	0.02	
18-Jan	0.01	0.02	0.01	0.04	0.02	0.00	0.02	
19-Jan	0.01	0.01	0.02	0.02	0.03	0.01	0.02	
20-Jan	0.01	0.02	0.01	0.02	0.01	0.01	0.01	
21-Jan	0.02	0.01	0.00	0.06	0.00	0.01	0.02	
22-Jan	0.01	0.02	0.00	0.03	0.02	0.01	0.02	
23-Jan	0.01	0.01	0.00	0.03	0.00	0.02	0.01	
24-Jan	0.00	0.00	0.01	0.02	0.01	0.03	0.01	
25-Jan	0.03	0.00	0.00	0.02	0.03	0.03	0.02	
26-Jan	0.01	0.03	0.02	0.03	0.00	0.01	0.02	
27-Jan	0.00	0.03	0.00	0.01	0.03	0.02	0.02	
28-Jan	0.01	0.00	0.01	0.01	0.02	0.01	0.01	
29-Jan	0.01	0.02	0.02	0.03	0.02	0.00	0.02	
30-Jan	0.01	0.03	0.03	0.02	0.03	0.00	0.02	
31-Jan	0.01	0.03	0.03	0.04	0.02	0.03	0.03	
Average	0.01	0.02	0.02	0.02	0.04	0.01	0.02	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.03	0.04	0.14	0.06	0.40	0.04		

CITY OF READING WASTEWATER TREATMENT PLANT

January 2012 Biosolids Report

Solids Processing:

	Total
Sludge Pumped from Primary Settling Tanks (gallons):	3,014,441
Secondary Sludge Pumped to Mix Tank (gallons):	4,722,000
Supernated from Secondary Digesters (gallons):	0

Gravity Belt Thickeners:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	3,946,760	4,019,256	0	7,966,016
Thickened Sludge (gallons):	951,404	995,696	0	1,947,100
Polymer (pounds):	1081.44	856.14	0.00	1937.58
Solids (dry tons):	167.68	148.26	0.00	315.94
Polymer dosage (pounds/dry ton):	6.45	5.77		6.13
% Reduction:	75.89%	75.23%		75.56%
GBT Solids in Filtrate (dry tons):	4.80	21.37	0.00	26.18
GBT 1 Hours of Operation:	208.00	152.50	0.00	360.50
GBT 2 Hours of Operation:	194.00	177.50	0.00	371.50
Total GBT Hours of Operation:	402.00	330.00	0.00	732.00
Dry tons/hour:	0.42	0.45		0.43

Belt Filter Presses:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	1,148,903	1,117,625	28,400	2,294,928
Polymer (pounds):	1051.40	1246.66	45.06	2343.12
Solids (dry tons):	81.61	83.39	1.76	166.76
Polymer dosage (pounds/dry ton):	12.88	14.95	25.54	14.05
% Solids Recovery:	89.25%	93.05%	93.15%	91.81%
Solids in Filtrate (dry tons):	6.26	6.03	0.13	12.41
BFP 1 Hours of Operation:	125.50	58.00	3.00	186.50
BFP 2 Hours of Operation:	174.50	119.00	3.00	296.50
BFP 3 Hours of Operation:	203.00	183.50	3.00	389.50
BFP 4 Hours of Operation:	184.00	156.50	3.00	343.50
Total BFP Hours of Operation:	687.00	517.00	12.00	1216.00
Dry tons/hour:	0.12	0.16	0.15	0.14

Total Solids in Filtrate (dry tons):	38.59
% Solids (Method 2540 G):	17.82%
Total Wet Tons Removed:	945.36
Dry Tons Removed:	168.46
Hours of Operation:	423
Fritz Island Scum Disposed (tons):	0.00
Fritz Island Grit Disposed (tons):	2.75
6th & Canal Grit Disposed (tons):	38.50
Mix Tank Cleaning/Snail Shells Disposed (tons):	0.00
Sanitary Sewer Excavation Soil (tons):	0.00

January 2012 Biosolids Report

Date	Volatile Solids Reducton PST (VS%)	Sec Dig (VS%)	VSR (%)	% Solids Feed	Cake (I-3750-85)	Filtrate	Thickened	GBT Filtrate	Polymer (lbs)	BFP Feed (gal)	Solids (dry tons)	Polymer Dose lb/dry ton	Wet Tons	6th St.	Grit	Snail Shells	Scum	Supernated (gpd)	GBT Feed (gal)	Thickened (gal)	GBT Poly (lbs)	Date
Sun 1				2.90%	19.70%	0.06%	3.96%	0.06%	52.57	29,299	3.54	14.84						0	196,570	67,399	67.59	Sun 1
Mon 2				1.49%	19.37%	0.11%	5.17%	0.11%	165.22	180,200	11.20	14.76	92.46					0	275,906	53,701	60.08	Mon 2
Tue 3					14.35%	0.11%	2.62%	0.11%	135.18	141,581	0.00		85.26					0	290,820	66,800	75.10	Tue 3
Wed 4	84.38%	65.71%	64.53%	0.58%	16.19%	0.16%	3.00%	0.16%	105.14	135,660	3.28	32.04	14.46					0	293,963	64,400	60.08	Wed 4
Thu 5				0.94%	19.73%	0.14%	4.88%	0.14%	90.12	116,940	4.58	19.66						0	254,339	54,899	60.08	Thu 5
Fri 6				1.86%	18.69%	0.12%	6.29%	0.12%	60.08	68,640	5.32	11.29	36.47		2.75			0	201,539	44,400	67.59	Fri 6
Sat 7				2.29%	18.08%	0.09%	6.44%	0.09%	45.06	53,900	5.15	8.75						0	179,983	61,601	60.08	Sat 7
Sun 8				2.66%	19.19%	0.10%	6.66%	0.10%	45.06	41,200	4.57	9.86						0	179,140	65,800	60.08	Sun 8
Mon 9				2.30%	17.98%	0.12%	3.29%	0.12%	67.59	53,101	5.09	13.27	71.22					0	295,203	84,800	90.12	Mon 9
Tue 10				1.24%	17.22%	0.13%	3.77%	0.13%	97.63	113,039	5.85	16.70	37.04					0	279,314	55,599	82.61	Tue 10
Wed 11				2.21%	18.15%	0.13%	3.95%	0.13%	97.63	86,080	7.93	12.31	52.13					0	278,278	60,701	67.59	Wed 11
Thu 12	84.07%			1.77%	18.24%	0.16%	5.06%	0.16%	82.61	73,681	5.44	15.19	16.61					0	304,427	72,799	60.08	Thu 12
Fri 13		66.96%		1.88%	18.90%	0.14%	3.94%	0.14%	52.57	60,820	4.77	11.03	18.18	6.15				0	302,834	74,301	67.59	Fri 13
Sat 14				1.71%	17.73%	0.10%	2.54%	0.10%	67.59	51,500	3.67	18.41	16.96					0	176,443	55,300	22.53	Sat 14
Sun 15				2.72%	18.45%	0.08%	3.16%	0.08%	67.59	33,200	3.77	17.95						0	143,482	52,799	30.04	Sun 15
Mon 16				1.92%	17.71%	0.14%	3.20%	0.14%	67.59	78,300	6.27	10.78	54.27					0	268,231	60,800	75.10	Mon 16
Tue 17	85.47%			2.04%	17.66%	0.10%	3.31%	0.10%	82.61	81,600	6.94	11.90	37.13					0	284,346	54,601	60.08	Tue 17
Wed 18		67.60%		2.16%	4.37%	0.11%	4.35%	0.11%	60.08	66,900	6.03	9.97	17.64					0	300,346	70,500	75.10	Wed 18
Thu 19				2.26%	18.60%	0.19%	3.25%	0.19%	67.59	73,400	6.92	9.77	35.35					0	329,773	61,400	67.59	Thu 19
Fri 20				1.79%	18.39%	0.12%	2.87%	0.12%	67.59	54,347	4.06	16.66	47.30					0	321,493	73,699	67.59	Fri 20
Sat 21				2.09%	17.16%	0.11%	5.70%	0.11%	45.06	46,920	4.09	11.02	18.59					0	203,606	41,501	60.08	Sat 21
Sun 22				2.55%	19.65%	0.11%	5.81%	0.11%	45.06	37,200	3.96	11.39						0	197,646	52,100	45.06	Sun 22
Mon 23				1.71%	17.62%	0.16%	2.86%	0.16%	75.10	74,779	5.33	14.08	49.55	8.44				0	383,054	74,000	90.12	Mon 23
Tue 24	80.90%			1.74%	18.88%	0.14%	3.72%	0.14%	82.61	92,221	6.69	12.35	35.14					0	166,318	32,600	37.55	Tue 24
Wed 25		64.86%		2.03%	18.48%	0.18%	4.30%	0.18%	75.10	64,960	5.50	13.66	36.72	12.86				0	198,670	42,500	45.06	Wed 25
Thu 26				2.69%	19.85%	0.10%	4.43%	0.10%	52.57	50,180	5.63	9.34	17.41	11.05				0	307,052	85,400	90.12	Thu 26
Fri 27				1.72%	19.06%	0.13%	3.40%	0.13%	82.61	86,600	6.21	13.30	32.19					0	260,808	70,500	60.08	Fri 27
Sat 28				2.56%	16.70%	0.12%	3.13%	0.12%	82.61	44,580	4.76	17.36						0	226,437	79,600	37.55	Sat 28
Sun 29				2.78%	18.43%	0.10%	2.70%	0.10%	52.57	35,380	4.10	12.82						0	186,124	66,799	30.04	Sun 29
Mon 30				3.06%	20.05%	0.15%	3.91%	0.15%	82.61	85,120	10.86	7.61	88.03					0	294,608	73,201	82.61	Mon 30
Tue 31									0.00	0	0.00		35.25					0	0	0	0.00	Tue 31
Total:					534.58%				2,253.00	2,211,328	161.50	13.95	945.36	38.50	2.75	0.00	0.00	0	7,580,753	1,874,500	1854.97	
Ave:	83.71%	66.28%	64.53%	2.06%	17.82%	0.12%	4.06%	0.12%	72.68	71,333	5.21	13.73	41.10	9.63	2.75	0.00	0.00	0	244,540	60,468	59.84	
Min:	80.90%	64.86%	64.53%	0.58%	4.37%	0.06%	2.54%	0.06%	0.00	0	0.00	7.61	14.46									
Max:	85.47%	67.60%	64.53%	3.06%	20.05%	0.19%	6.66%	0.19%	165.22	180,200	11.20	32.04	92.46									

Total Dry Tons, Cake =	945.36	x	17.82	x	0.01 =	168.46 dry tons

January 2012 Solids Operations Report

10 PM - 6 AM

Date	BFP % Solids Feed	BFP % Solids Cake (I-3750-85)	BFP % Solids Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened	GBT % Solids Filtrate (I-3750-85)	Gravity Belt Thickener Feed (gal)	Thickned (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Sun 1	2.90%		0.06%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 2	1.49%	19.37%	0.11%	68,601	67.59	4.26	15.86	93.15%	32.00	0.13	0.31	5.17%	0.11%	240,539	36,201	84.95%	52.57	7.80	6.74	16.00	0.49	0.166054
Tue 3	0.00%	14.35%	0.11%	77,201	67.59	0.00			32.00	0.00	0.35	2.62%	0.11%	163,120	44,700	72.60%	45.06	4.88	9.23	14.00	0.35	0.205039
Wed 4	0.58%	16.19%	0.16%	71,600	60.08	1.73	34.69	73.14%	32.00	0.05	0.48	3.00%	0.16%	128,700	25,400	80.26%	37.55	3.18	11.82	8.00	0.40	0.169469
Thu 5	0.94%	19.73%	0.14%	67,740	45.06	2.66	16.97	85.71%	32.00	0.08	0.40	4.88%	0.14%	112,939	22,800	79.81%	30.04	4.64	6.47	16.00	0.29	0.133106
Fri 6	1.86%	18.69%	0.12%	46,200	37.55	3.58	10.48	94.15%	32.00	0.11	0.23	6.29%	0.12%	100,539	24,701	75.43%	30.04	6.48	4.64	12.00	0.54	0.123604
Sat 7	2.29%	18.08%	0.09%	53,900	45.06	5.15	8.75	96.55%	32.00	0.16	0.20	6.44%	0.09%	179,983	61,601	65.77%	60.08	16.54	3.63	16.00	1.03	0.231189
Sun 8	2.66%	19.19%	0.10%	41,200	45.06	4.57	9.86	96.74%	32.00	0.14	0.17	6.66%	0.10%	179,140	65,800	63.27%	60.08	18.27	3.29	16.00	1.14	0.274386
Mon 9	2.30%	17.98%	0.12%	8,100	7.51	0.78	9.67	95.42%	32.00	0.02	0.04	3.29%	0.12%	174,478	53,300	69.45%	52.57	7.31	7.19	16.00	0.46	0.266713
Tue 10	1.24%	17.22%	0.13%	63,400	60.08	3.28	18.33	90.20%	32.00	0.10	0.34	3.77%	0.13%	145,858	33,499	77.03%	45.06	5.27	8.56	16.00	0.33	0.181598
Wed 11	2.21%	18.15%	0.13%	55,361	52.57	5.10	10.30	94.80%	24.00	0.21	0.30	3.95%	0.13%	124,433	26,001	79.10%	37.55	4.28	8.77	16.00	0.27	0.140951
Thu 12	1.77%	18.24%	0.16%	31,481	30.04	2.32	12.93	91.77%	24.00	0.10	0.21	5.06%	0.16%	119,783	29,100	75.71%	30.04	6.14	4.89	16.00	0.38	0.194155
Fri 13	1.88%	18.90%	0.14%	42,219	45.06	3.31	13.61	93.24%	19.00	0.17	0.25	3.94%	0.14%	151,768	29,501	80.56%	30.04	4.85	6.20	16.00	0.30	0.172227
Sat 14	1.71%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 15	2.72%		0.08%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 16	1.92%	17.71%	0.14%	28,800	15.02	2.31	6.51	93.45%	32.00	0.07	0.17	3.20%	0.14%	128,945	31,601	75.49%	37.55	4.22	8.90	16.00	0.26	0.184487
Tue 17	2.04%	17.66%	0.10%	53,400	52.57	4.54	11.57	95.64%	32.00	0.14	0.22	3.31%	0.10%	119,377	24,600	79.39%	30.04	3.40	8.85	16.00	0.21	0.102582
Wed 18	2.16%	4.37%	0.11%	33,000	30.04	2.97	10.11	97.36%	24.00	0.12	0.15	4.35%	0.11%	126,501	34,200	72.96%	37.55	6.20	6.05	16.00	0.39	0.156875
Thu 19	2.26%	18.60%	0.19%	33,300	30.04	3.14	9.57	92.54%	16.00	0.20	0.26	3.25%	0.19%	134,614	27,800	79.35%	30.04	3.77	7.97	16.00	0.24	0.220259
Fri 20	1.79%	18.39%	0.12%	24,000	22.53	1.79	12.58	93.91%	20.50	0.09	0.12	2.87%	0.12%	142,706	33,900	76.24%	37.55	4.06	9.26	16.00	0.25	0.169636
Sat 21	2.09%	17.16%	0.11%	46,920	45.06	4.09	11.02	95.35%	24.00	0.17	0.22	5.70%	0.11%	203,806	41,501	79.62%	60.06	9.86	6.09	16.00	0.62	0.190365
Sun 22	2.55%	19.65%	0.11%	37,200	45.06	3.96	11.39	96.22%	31.00	0.13	0.17	5.81%	0.11%	197,646	52,100	73.64%	45.06	12.62	3.57	16.00	0.79	0.238983
Mon 23	1.71%	17.62%	0.16%	40,780	37.55	2.91	12.91	91.47%	30.50	0.10	0.27	2.86%	0.16%	197,197	43,199	78.09%	52.57	5.15	10.20	16.00	0.32	0.288224
Tue 24	1.74%	18.88%	0.14%	51,921	45.06	3.77	11.96	92.64%	24.00	0.16	0.30	3.72%	0.14%	125,592	30,799	75.48%	37.55	4.78	7.86	16.00	0.30	0.179805
Wed 25	2.03%	18.48%	0.18%	42,960	45.06	3.64	12.39	92.03%	24.00	0.15	0.32	4.30%	0.18%	162,398	30,200	81.40%	37.55	5.42	6.93	16.00	0.34	0.226681
Thu 26	2.69%	19.85%	0.10%	22,179	15.02	2.49	6.04	96.77%	23.00	0.11	0.09	4.43%	0.10%	138,643	42,099	69.63%	52.57	7.78	6.76	16.00	0.49	0.175553
Fri 27	1.72%	19.06%	0.13%	40,900	37.55	2.93	12.80	93.08%	16.00	0.18	0.22	3.40%	0.13%	122,705	37,500	69.44%	30.04	5.32	5.65	16.00	0.33	0.203288
Sat 28	2.56%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 29	2.78%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 30	3.06%	20.05%	0.15%	33,320	30.04	4.25	7.07	95.81%	16.00	0.27	0.21	3.91%	0.15%	115,139	33,501	70.90%	37.55	5.46	6.87	16.00	0.34	0.209549
Tue 31	1.51%		0.17%	33,200	37.55	2.09	17.96	0.00%	19.00		0.24			210,413	35,800		45.06			16.00		
Total =				1,148,903	1051.40	81.61	12.88	89.25%	687.00	3.18	6.26			3,946,760	951,404	75.89%	1081.44	167.88	6.45	402.00	10.86	4.80
Average =	1.97%	17.74%	0.13%	37,061	33.92	2.63	12.61	89.25%	22.16	0.13	0.20	4.25%	0.13%	127,315	30,690	75.42%	34.89	6.71	7.06	12.97	0.43	0.19
Minimum =	0.00%	4.37%	0.06%	0	0.00	0.00	6.04	0.00%	0.00	0.00	0.00	2.62%	0.09%	0	0	63.27%	0.00	3.18	3.29	0.00	0.21	0.10
Maximum =	3.06%	20.05%	0.19%	77,201	67.59	5.15	34.69	97.36%	32.00	0.27	0.48	6.66%	0.19%	240,539	65,800	84.95%	60.08	18.27	11.82	16.00	1.14	0.29

(%feed)(%cake - %filtrate)

January 2012 Solids Operations Report

10 PM - 6 AM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thickn'd Sludge	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Sun 1																										
Mon 2	8	3.20%	20.22%	0.13%	4.70%	0.80%	19.23%	0.15%	5.25%	0	0	33900	34701	4	5	127,400	113,139	36,201	3	4	8.00	8.00	8.00	8.00	8.00	8.00
Tue 3	8	2.25%	19.47%	0.14%	6.05%	2.30%	18.31%	0.14%	5.05%	0	0	36900	40301	4	5	113,100	50,020	44,700	2	4	8.00	8.00	8.00	8.00	8.00	6.00
Wed 4	8	2.75%	18.34%	0.14%	5.40%	1.35%	18.59%	0.18%	4.95%	0	0	35400	36200	3	5	128,700	0	25,400	2	3	8.00	8.00	8.00	8.00	8.00	0.00
Thu 5	8	0.35%		0.17%		0.35%		0.19%	4.28%	0	0	31440	36300	3	3	0	112,939	22,800	1	3	8.00	8.00	8.00	8.00	6.00	8.00
Fri 6	8	2.25%	18.17%	0.12%	5.55%	2.35%	18.82%	0.14%	4.80%	0	0	10500	35700	1	4	83,800	16,739	24,701	2	2	8.00	8.00	8.00	8.00	8.00	4.00
Sat 7	8	3.05%	18.26%	0.12%	5.20%	1.65%	17.91%	0.16%	5.80%	0	0	24600	29300	3	3	82,899	97,084	61,601	3	5	8.00	8.00	8.00	8.00	8.00	8.00
Sun 8	8	2.65%	19.42%	0.14%	6.40%	2.55%	18.82%	0.13%	5.60%	0	0	20700	20500	3	3	81,501	97,639	65,800	4	4	8.00	8.00	8.00	8.00	8.00	8.00
Mon 9	8	2.95%	18.14%	0.13%	5.35%				5.75%	0	0	0	8100	0	1	112,000	62,478	53,300	3	4	8.00	8.00	8.00	8.00	8.00	8.00
Tue 10	8	2.95%	18.64%	0.16%	3.95%	2.10%	18.11%	0.15%	5.75%	0	0	33900	29500	4	4	103,200	42,658	33,499	3	3	8.00	8.00	8.00	8.00	8.00	8.00
Wed 11	8	2.35%	17.88%	0.12%	4.80%	2.15%	18.15%	0.14%	5.40%	0	0	19980	35401	0	7	0	124,433	26,001	2	3	0.00	8.00	8.00	8.00	8.00	8.00
Thu 12	8	2.35%	20.18%	0.14%	4.95%	2.10%	17.84%	0.13%	5.30%	0	0	1980	29501	0	4	0	119,783	29,100	1	3	0.00	8.00	8.00	8.00	8.00	8.00
Fri 13	8	2.55%	19.02%	0.10%	5.25%	1.85%	19.32%	0.14%	4.00%	0	0	20220	21999	3	3	53,600	96,166	29,501	2	2	0.00	3.00	8.00	8.00	8.00	8.00
Sat 14																										
Sun 15																										
Mon 16	8	2.97%	18.93%	0.14%	4.50%	1.50%	18.09%	0.15%	5.05%	0	0	14700	14100	1	1	49,301	79,644	31,601	3	2	8.00	8.00	8.00	8.00	8.00	8.00
Tue 17	8	2.50%	18.74%	0.15%		2.40%	18.12%	0.12%	5.60%	0	0	20100	33300	2	5	42,001	77,376	24,600	2	2	8.00	8.00	8.00	8.00	8.00	8.00
Wed 18	8	2.90%	20.54%	0.13%	4.45%	2.05%	19.92%	0.14%	4.25%	0	0	33000	0	4	0	42,100	84,401	34,200	2	3	8.00	8.00	8.00	0.00	8.00	8.00
Thu 19	8	2.30%	18.84%	0.12%		2.37%	21.01%	0.10%	5.55%	0	0	33300	0	4	0	56,000	78,614	27,800	2	2	8.00	0.00	8.00	0.00	8.00	8.00
Fri 20	8	2.35%	19.12%	0.15%	4.40%	1.95%	18.42%	0.14%	6.03%	0	0	24000	0	3	0	53,800	88,906	33,900	3	2	8.00	4.50	8.00	0.00	8.00	8.00
Sat 21	8	2.25%	18.05%	0.13%	5.25%	1.70%	17.38%	0.14%	6.08%	0	0	18120	28800	2	4	91,000	112,606	41,501	4	4	0.00	8.00	8.00	8.00	8.00	8.00
Sun 22	8	2.70%	19.46%	0.13%	4.25%	2.55%	19.60%	0.12%	6.00%	0	0	15300	21900	3	3	96,700	100,946	52,100	3	3	7.00	8.00	8.00	8.00	8.00	8.00
Mon 23	8	3.20%	21.04%	0.16%	4.30%	1.55%	17.88%	0.14%	5.35%	0	0	16980	23800	2	3	89,800	107,397	43,199	3	4	6.50	8.00	8.00	8.00	8.00	8.00
Tue 24	8	2.45%	19.03%	0.14%	4.90%	2.35%	19.40%	0.10%	5.40%	0	0	21720	30201	2	4	31,900	93,692	30,799	3	2	0.00	8.00	8.00	8.00	8.00	8.00
Wed 25	8	2.10%	18.45%	0.13%	4.90%	1.70%	17.95%	0.10%	5.60%	0	0	20460	22500	3	3	23,600	138,798	30,200	3	2	0.00	8.00	8.00	8.00	8.00	8.00
Thu 26	8				5.05%	2.75%	19.73%	0.13%	6.04%	0	0	13680	8499	1	1	41,699	96,944	42,099	3	4	0.00	7.00	8.00	8.00	8.00	8.00
Fri 27	8	2.09%	21.01%	0.13%	8.02%	1.60%	18.75%	0.12%	5.88%	0	0	20700	20200	3	2	78,900	43,805	37,500	1	3	0.00	0.00	8.00	8.00	8.00	8.00
Sat 28																										
Sun 29																										
Mon 30	8	3.10%	20.16%	0.10%	5.48%	3.17%	20.66%	0.15%	5.98%	0	0	15120	18200	2	2	40,299	74,840	33,501	2	3	0.00	0.00	8.00	8.00	8.00	8.00
Tue 31	8	1.79%	17.92%	0.12%	5.78%	1.59%	16.94%	0.15%	5.95%	0	2900	30300	0	5	0	112,301	98,112	35,800	3	3	0.00	8.00	3.00	8.00	8.00	8.00
	208	2.49%	19.13%	0.13%	5.08%	1.95%	18.70%	0.14%	5.41%	0	2900	567000	579003	65	75	1,735,601	2,211,159	951,404	65	79	125.50	174.50	203.00	184.00	208.00	194.00
	Min:	0.35%	17.88%	0.10%	3.95%	0.35%	16.94%	0.10%	4.00%																	
	Max:	3.20%	21.04%	0.17%	8.40%	3.17%	21.01%	0.19%	6.08%	0	2900	38900	40301	5	7	128,700	138,798	65,800	4	5	8.00	8.00	8.00	8.00	8.00	8.00

January 2012 Solids Operations Report

6 AM - 2 PM

Date	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened	GBT % Solids Filtrate (I-3750-85)	Gravity Belt Thickener Feed (gal)	Thickned (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Sun 1	2.90%	19.70%	0.06%	29,299	52.57	3.54	14.84	98.23%	26.00	0.14	0.07	3.96%	0.06%	196,570	67,399	65.71%	67.59	11.13	6.07	13.00	0.86	0.49
Mon 2	1.49%	19.37%	0.11%	83,199	52.57	5.17	10.17	93.15%	32.00	0.16	0.38	5.17%	0.11%	35,367	17,500	50.52%	7.51	3.77	1.99	12.00	0.31	0.16
Tue 3	0.00%	14.35%	0.11%	64,380	67.59	0.00			27.00	0.00	0.30	2.62%	0.11%	127,700	22,100	82.69%	30.04	2.41	12.44	7.00	0.34	0.59
Wed 4	0.56%	16.19%	0.16%	64,060	45.06	1.55	29.08	73.14%	19.00	0.08	0.43	3.00%	0.16%	165,263	39,000	76.40%	22.53	4.88	4.62	14.00	0.35	1.10
Thu 5	0.94%	19.73%	0.14%	49,200	45.06	1.93	23.36	85.71%	21.00	0.09	0.29	4.88%	0.14%	141,400	32,099	77.30%	30.04	6.53	4.60	10.50	0.62	0.83
Fri 6	1.86%	18.69%	0.12%	22,440	22.53	1.74	12.94	94.15%	16.00	0.11	0.11	6.29%	0.12%	101,000	19,699	80.50%	37.55	5.17	7.27	4.00	1.29	0.51
Sat 7	2.29%		0.09%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 8	2.66%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 9	2.30%	17.98%	0.12%	45,001	60.08	4.32	13.92	95.42%	25.50	0.17	0.23	3.29%	0.12%	120,725	31,500	73.91%	37.55	4.32	8.69	10.50	0.41	0.60
Tue 10	1.24%	17.22%	0.13%	49,639	37.55	2.57	14.63	90.20%	17.00	0.15	0.27	3.77%	0.13%	133,456	22,100	83.44%	37.55	3.47	10.81	16.00	0.22	0.72
Wed 11	2.21%	18.15%	0.13%	30,699	45.06	2.83	15.93	94.80%	13.50	0.21	0.17	3.95%	0.13%	153,845	34,700	77.44%	30.04	5.72	5.26	12.50	0.46	0.83
Thu 12	1.77%	18.24%	0.16%	42,200	52.57	3.11	16.88	91.77%	21.00	0.15	0.28	5.08%	0.16%	184,644	43,699	76.33%	30.04	9.22	3.26	13.00	0.71	1.23
Fri 13	1.88%	18.90%	0.14%	18,601	7.51	1.46	5.15	93.24%	10.00	0.15	0.11	3.94%	0.14%	151,068	44,600	70.34%	37.55	7.36	5.10	12.00	0.61	0.88
Sat 14	1.71%	17.73%	0.10%	51,500	67.59	3.67	18.41	94.69%	22.50	0.16	0.21	2.54%	0.10%	176,443	55,300	68.66%	22.53	5.86	3.85	13.00	0.45	0.74
Sun 15	2.72%	18.45%	0.08%	33,200	67.59	3.77	17.95	97.48%	14.00	0.27	0.11	3.16%	0.08%	143,482	52,799	63.20%	30.04	6.96	4.32	11.50	0.60	0.48
Mon 16	1.92%	17.71%	0.14%	49,500	52.57	3.96	13.26	93.45%	16.50	0.24	0.29	3.20%	0.14%	139,286	29,199	79.04%	37.55	3.90	9.64	10.50	0.37	0.81
Tue 17	2.04%	17.66%	0.10%	28,200	30.04	2.40	12.52	95.64%	16.00	0.15	0.12	3.31%	0.10%	164,969	30,001	81.81%	30.04	4.14	7.25	13.00	0.32	0.69
Wed 18	2.16%	4.37%	0.11%	33,900	30.04	3.05	9.84	97.36%	17.50	0.17	0.16	4.35%	0.11%	173,845	36,300	79.12%	37.55	6.58	5.70	13.50	0.49	0.80
Thu 19	2.26%	18.80%	0.19%	40,100	37.55	3.78	9.94	92.54%	21.00	0.18	0.32	3.25%	0.19%	195,159	33,600	82.78%	37.55	4.55	8.25	14.00	0.33	1.55
Fri 20	1.79%	18.39%	0.12%	30,347	45.06	2.27	19.89	93.91%	19.50	0.12	0.15	2.87%	0.12%	178,787	39,799	77.74%	30.04	4.76	6.31	12.50	0.38	0.89
Sat 21	2.09%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 22	2.55%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 23	1.71%	17.62%	0.16%	33,999	37.55	2.42	15.49	91.47%	16.00	0.15	0.23	2.86%	0.16%	185,857	30,801	83.43%	37.55	3.87	10.22	12.50	0.29	1.24
Tue 24	1.74%	18.88%	0.14%	40,300	37.55	2.92	12.84	92.64%	16.00	0.18	0.24	3.72%	0.14%	40,726	1,601	95.58%	0.00	0.28	0.00	11.50	0.02	0.24
Wed 25	2.03%	18.48%	0.18%	22,000	30.04	1.86	16.13	92.03%	12.00	0.16	0.17	4.30%	0.18%	36,272	12,300	66.09%	7.51	2.21	3.41	7.00	0.32	0.27
Thu 26	2.69%	19.85%	0.10%	28,001	37.55	3.14	11.95	96.77%	7.00	0.45	0.12	4.43%	0.10%	188,409	43,301	74.29%	37.55	8.00	4.69	14.00	0.57	0.70
Fri 27	1.72%	19.06%	0.13%	45,700	45.08	3.28	13.75	93.08%	19.50	0.17	0.25	3.40%	0.13%	136,103	33,000	76.10%	30.04	4.68	6.42	14.50	0.32	0.75
Sat 28	2.56%	16.70%	0.12%	44,580	82.61	4.76	17.36	96.00%	22.50	0.21	0.22	3.13%	0.12%	226,437	79,600	64.85%	37.55	10.39	3.61	16.00	0.65	1.13
Sun 29	2.78%	18.43%	0.10%	35,380	52.57	4.10	12.82	96.93%	16.00	0.26	0.15	2.70%	0.10%	186,124	66,799	64.11%	30.04	7.52	3.99	14.00	0.54	0.78
Mon 30	3.06%	20.05%	0.15%	51,800	52.57	6.61	7.95	95.81%	21.00	0.31	0.32	3.91%	0.15%	179,489	39,700	77.88%	45.06	6.47	6.96	14.00	0.46	1.12
Tue 31	1.51%	17.56%	0.17%	50,400	52.57	3.17	16.57	89.61%	32.00	0.10	0.36	2.80%	0.17%	174,850	36,800	78.95%	37.55	4.30	8.74	14.00	0.31	1.24
Total =				1,117,625	1246.66	83.39	14.95	93.05%	517.00	4.68	6.03			4,019,256	995,696	75.23%	856.14	148.26	5.77	330.00	12.61	21.37
Average =	1.97%	17.71%	0.13%	36,052	40.21	2.69	14.75	93.05%	16.68	0.17	0.19	3.70%	0.13%	129,653	32,119	75.12%	27.62	5.49	6.05	10.65	0.47	0.79
Minimum =	0.00%	4.37%	0.06%	0	0.00	0.00	5.15	73.14%	0.00	0.00	0.00	2.54%	0.06%	0	0	50.52%	0.00	0.28	0.00	0.00	0.02	0.16
Maximum =	3.06%	20.05%	0.19%	83,199	82.61	6.61	29.08	98.23%	32.00	0.45	0.43	6.29%	0.19%	226,437	79,600	95.58%	67.59	11.13	12.44	16.00	1.29	1.55

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

January 2012 Solids Operations Report

6 AM - 2 PM

Date	Hours of Operation	Mix Tank Level	% Solids								BFP Sludge Processed				BFP Polymer				GBT Polymer		Hours of Operation					
			1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Thicknd Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Sun 1	8	9.08	3.25%	19.80%	0.20%	2.86%	2.25%	18.40%	0.13%	3.56%	0	8,400	12,000	8,899	3	4	124,801	71,769	67,399	4	5	6.00	6.00	7.00	7.00	6.50	6.50
Mon 2	8	7.02	2.25%	18.80%	0.11%	4.20%	1.65%	17.40%	0.11%		0	0	42,900	40,299	3	4	17,599	17,768	17,500	1	0	8.00	8.00	8.00	8.00	6.00	6.00
Tue 3	8	7.75	1.95%	17.50%	0.10%	2.00%	0.70%	13.23%	0.13%	1.75%	0	5,700	33,480	25,200	4	5	127,700	0	22,100	1	3	4.00	7.00	8.00	8.00	7.00	0.00
Wed 4	8	8.59	0.40%	11.15%	0.15%	1.76%	0.42%	11.08%	0.11%	2.50%	0	0	29,160	34,900	2	4	79,200	86,063	39,000	1	2	7.00	7.00	2.50	2.50	6.50	7.50
Thu 5	8	8.29	1.22%	19.05%	0.15%	2.70%	2.15%	17.25%	0.20%	2.25%	0	0	25,200	24,000	2	4	0	141,400	32,099	2	2	2.50	2.50	8.00	8.00	3.00	7.50
Fri 6	4	8.82	1.35%	18.89%	0.16%	4.95%					0	0	9,540	12,900	1	2	101,000	0	19,699	2	3	4.00	4.00	4.00	4.00	4.00	0.00
Sat 7																											
Sun 8																											
Mon 9	8	8.25	1.55%	18.16%	0.18%	2.55%	2.09%	16.15%	0.05%	4.15%	0	0	17,001	28,000	2	6	37,200	83,525	31,500	3	2	3.00	7.50	7.50	7.50	3.00	7.50
Tue 10	8	7.42	1.65%	18.20%	0.20%	2.16%	0.70%	12.05%	0.17%	2.82%	0	0	28,440	21,199	2	3	103,700	29,756	22,100	1	4	1.00	1.00	7.50	7.50	8.00	8.00
Wed 11	8	8.56	2.45%	17.30%	0.20%	2.26%	2.20%	17.50%	0.22%	3.28%	0	0	17,100	13,599	2	4	0	153,845	34,700	2	2	0.00	0.50	6.50	6.50	5.00	7.50
Thu 12	8	9.03	1.20%	18.60%	0.20%	2.10%	1.89%	15.80%	2.00%	2.36%	0	7,500	16,200	18,500	2	5	80,200	104,444	43,699	1	3	0.00	7.00	7.00	7.00	6.00	7.00
Fri 13	8	7.66	2.05%	17.65%	0.20%	2.07%				2.85%	0	0	10,800	7,801	0	1	89,200	61,868	44,800	2	3	0.00	0.00	5.00	5.00	7.00	5.00
Sat 14	8	8.42	2.25%	19.16%	0.20%	2.00%	1.35%	16.80%	0.28%	2.28%	0	0	25,200	26,300	3	6	74,299	102,144	55,300	1	2	0.00	7.50	7.50	7.50	6.50	6.50
Sun 15	8	8.76	2.64%	20.04%	0.21%	3.16%	2.60%	17.20%	0.10%	4.20%	0	0	17,400	15,800	3	6	50,400	93,082	52,799	2	2	0.00	0.00	7.00	7.00	5.00	6.50
Mon 16	8	7.38	2.85%	19.60%	0.15%	1.95%	1.45%	18.63%	0.25%	2.55%	0	0	24,300	25,200	1	6	59,799	79,487	29,199	3	2	0.00	4.50	6.00	8.00	4.50	6.00
Tue 17	8	8.28	1.65%	15.86%	0.19%	2.65%	2.65%	17.40%	0.05%	2.71%	0	0	20,700	7,500	2	2	75,400	89,569	30,001	2	2	1.50	3.00	7.50	4.00	5.50	7.50
Wed 18	8	8.10	1.95%	18.85%	0.18%	3.95%	1.94%	20.08%	0.08%	3.05%	0	5,100	28,800	0	4	0	75,200	98,645	36,300	3	2	6.00	4.50	7.00	0.00	6.00	7.50
Thu 19	8	9.11	2.55%	19.90%	0.20%	3.50%	1.45%	16.80%	0.20%	1.75%	0	10,400	29,700	0	5	0	74,699	120,460	33,600	3	2	7.00	6.50	7.50	0.00	6.00	8.00
Fri 20	8	8.54	1.60%	17.10%	0.11%	2.51%	2.61%	17.82%	0.15%	3.21%	0	10,200	6,347	13,800	2	4	76,401	102,386	39,799	2	2	0.00	7.50	7.00	5.00	5.50	7.00
Sat 21																											
Sun 22																											
Mon 23	8	8.70	1.60%	16.40%	0.15%	1.90%	1.95%	17.00%	0.10%	2.50%	0	9,900	10,800	13,299	3	2	74,200	111,657	30,801	3	2	0.00	7.00	4.50	4.50	4.50	6.00
Tue 24	8	5.77	2.45%	18.50%	0.30%	2.85%	1.75%	16.40%	0.23%		0	0	21,000	19,300	3	2	0	40,726	1,801	0	0	0.00	1.00	7.50	7.50	4.50	7.00
Wed 25	8	5.43	1.60%	17.10%	0.24%	3.55%	2.95%	19.68%	0.20%	2.25%	0	0	10,800	11,200	2	2	0	36,272	12,300	1	0	0.00	0.00	6.00	6.00	0.00	7.00
Thu 26	8	7.37	1.80%	19.00%	0.12%	3.21%	2.25%	19.03%	0.06%	3.58%	0	0	20,400	7,601	2	3	90,701	77,708	43,301	2	3	0.00	0.00	7.00	0.00	6.50	7.50
Fri 27	8	8.25	1.20%	17.65%	0.15%	3.01%	2.90%	20.35%			0	0	23,100	22,600	3	3	120,000	18,103	33,000	1	3	0.00	4.50	7.50	7.50	8.00	6.50
Sat 28	8	9.86	3.25%	19.25%	0.10%	2.75%	2.20%	19.10%			0	9,500	17,280	17,800	6	5	90,300	136,137	79,600	2	3	0.00	7.50	7.50	7.50	8.00	8.00
Sun 29	8	9.22	3.05%	19.95%	0.08%	2.75%	2.86%				0	0	17,280	18,100	2	5	82,000	104,124	66,799	1	3	0.00	0.00	8.00	8.00	7.00	7.00
Mon 30	8	8.37	2.80%	19.80%	0.19%	2.14%	2.62%	18.87%	0.10%	2.83%	0	11,500	20,700	19,600	4	3	92,300	87,169	39,700	3	3	0.00	7.00	7.00	7.00	7.00	7.00
Tue 31	8	8.65	1.72%	19.78%	0.24%	1.78%	1.43%	17.11%	0.09%	3.84%	0	13,100	23,400	13,900	5	2	79,599	95,251	38,800	3	2	8.00	8.00	8.00	8.00	6.00	8.00
	212		2.01%	18.25%	0.17%	2.71%	1.96%	17.13%	0.23%	2.87%	0	91,300	559,028	467,297	73	93	1,875,898	2,143,358	995,696	52	62	58.00	119.00	183.50	156.50	152.50	177.50
		5.43	0.40%	11.15%	0.08%	1.76%	0.42%	11.08%	0.05%	1.75%																	
		9.86	3.25%	20.04%	0.30%	4.95%	2.95%	20.35%	2.00%	4.20%	0	13,100	42,900	40,299	6	6	127,700	153,845	79,600	4	5	8.00	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

January 2012 Solids Operations Report

2 PM - 10 PM

Date	% Solids Feed (I-3750-85)	% Solids Cake (I-3750-85)	% Solids Filtrate (I-3750-85)	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids Thickened (I-3750-85)	GBT % Solids Filtrate (I-3750-85)	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Sun 1	2.90%		0.06%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 2	1.49%	19.37%	0.11%	28,400	45.06	1.76	25.54	93.15%	12.00	0.15	0.13			0	0		0.00			0.00		
Tue 3	0.00%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 4	0.58%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 5	0.94%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 6	1.86%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 7	2.29%		0.09%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 8	2.66%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 9	2.30%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 10	1.24%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 11	2.21%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 12	1.77%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 13	1.88%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 14	1.71%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 15	2.72%		0.08%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 16	1.92%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 17	2.04%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 18	2.16%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 19	2.26%		0.19%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 20	1.79%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 21	2.09%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 22	2.55%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 23	1.71%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 24	1.74%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 25	2.03%		0.18%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 26	2.69%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 27	1.72%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 28	2.56%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 29	2.78%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 30	3.06%		0.15%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 31	1.51%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				28,400	45.06	1.76	25.54	93.15%	12.00	0.15	0.13			0	0		0.00	0.00		0.00	0.00	0.00
Average =	1.97%	19.37%	0.13%	916	1.45	0.06	25.54	93.15%	0.39	0.15	0.00			0	0	#DIV/0!	0.00	#DIV/0!	#DIV/0!	0.00	#DIV/0!	#DIV/0!
Minimum =	0.00%	19.37%	0.06%	0	0.00	0.00	25.54	93.15%	0.00	0.15	0.00	0.00%	0.00%	0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00
Maximum =	3.06%	19.37%	0.19%	26,400	45.06	1.76	25.54	93.15%	12.00	0.15	0.13	0.00%	0.00%	0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00

$$\% \text{ Solids Recovery} = \frac{(\%\text{cake})(\%\text{feed} - \%\text{filtrate})}{(\%\text{feed})(\%\text{cake} - \%\text{filtrate})}$$

January 2012 Solids Operations Report

2 PM - 10 PM

Date	Hours of Operation	% Solids 1st Feed	% Solids 1st Cake	% Solids 1st Filtrate	% Solids 1st GBT	% Solids 2nd Feed	% Solids 2nd Cake	% Solids 2nd Filtrate	% Solids 2nd GBT	BFP Sludge Processed BFP 1	BFP 2	BFP 3	BFP 4	BFP Polymer 1-2-3	4-5-6	GBT 1	GBT 2	Thicknd Sludge	GBT Polymer 7	8	Hours of Operation BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Sun 1																										
Mon 2	3	1.68%	18.40%	0.14%						0	0	14,100	14,300	1	5	0	0	0	0	0	3.00	3.00	3.00	3.00	0.00	0.00
Tue 3																										
Wed 4																										
Thu 5																										
Fri 6																										
Sat 7																										
Sun 8																										
Mon 9																										
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Fri 27																										
Sat 28																										
Sun 29																										
Mon 30																										
Tue 31																										
	3	1.68%	18.40%	0.14%						0	0	14,100	14,300	1	5	0	0	0	0	0	3.00	3.00	3.00	3.00	0.00	0.00
	Min:	1.68%	18.40%	0.14%	0.00%	0.00%	0.00%	0.00%	0.00%																	
	Max:	1.68%	18.40%	0.14%	0.00%	0.00%	0.00%	0.00%	0.00%	0	0	14,100	14,300	1	5	0	0	0	0	0	3.00	3.00	3.00	3.00	0.00	0.00

Numbers in Red Font are Lab Data

January 2012 Sludge Inventory Report

Date	Pumped from PSTs to Pri. Dig. (gal)	Pumped from PSTs to Mix Tank (gal)	Pumped from PSTs Total (gal)	Thickened Sludge to Pri. Dig. (gal)	Secondary Sludge to Mix Tank (gal)	Dig 1 (in.)	Dig 2 (in.)	Dig 3 (in.)	Mix Tank (in.)	Dig 4 (in.)	Dig 5 (in.)	Pri.Dig.Sldg. Inventory (gal)	Sec.Dig.Sldg. Inventory (gal)	Transfer (calculated) (gal)	Supernated (gal)	Pressed (gal)	Mix Tank Overflow Potential Calculated (gal)
									107			498,800	294,250				
Sun 1	0	97,081	97,081	67,399	245,000	54	32	37	109	51	56	599,850	294,250	0	0	29,299	0
Mon 2	0	97,366	97,366	53,701	150,000	29	17	17	84	60	56	374,850	319,000	278,701	0	180,200	0
Tue 3	0	96,394	96,394	66,800	181,000	18	13	35	93	48	39	404,700	239,250	36,950	0	141,581	0
Wed 4	0	93,850	93,850	64,400	164,000	18	39	33	103	23	19	494,700	115,500	0	0	135,660	0
Thu 5	0	94,797	94,797	54,899	140,000	37	24	18	99	5	21	454,850	71,500	94,749	0	116,940	0
Fri 6	0	94,340	94,340	44,400	70,000	18	23	34	106	13	12	460,650	68,750	38,600	0	68,640	0
Sat 7	0	96,146	96,146	61,601	83,000	32	22	21	0	34	6	206,250	110,000	316,001	0	53,900	0
Sun 8	0	94,231	94,231	65,800	136,000	20	22	43	0	19	6	233,750	68,750	38,300	0	41,200	0
Mon 9	0	117,306	117,306	84,800	143,000	12	37	19	99	23	33	424,600	154,000	0	0	53,101	0
Tue 10	0	93,473	93,473	55,599	182,000	20	18	19	89	23	19	370,350	115,500	109,849	0	113,039	0
Wed 11	0	83,185	83,185	60,701	179,000	31	16	29	103	7	6	456,200	35,750	0	0	86,080	0
Thu 12	0	100,334	100,334	72,799	198,000	30	21	20	108	4	18	454,450	60,500	74,549	0	73,681	0
Fri 13	0	83,664	83,664	74,301	87,000	20	16	27	92	40	4	394,050	121,000	134,701	0	60,820	0
Sat 14	0	81,733	81,733	55,300	65,000	19	15	39	101	30	4	443,150	93,500	6,200	0	51,500	0
Sun 15	0	85,234	85,234	52,799	162,000	20	37	18	105	18	19	458,250	101,750	37,699	0	33,200	0
Mon 16	0	84,239	84,239	60,800	144,000	49	24	19	89	5	19	466,600	66,000	52,450	0	78,300	0
Tue 17	0	88,836	88,836	54,601	200,000	33	24	18	99	25	4	443,850	79,750	77,351	0	81,600	0
Wed 18	0	111,686	111,686	70,500	204,000	16	16	38	97	20	10	425,300	82,500	89,050	0	66,900	0
Thu 19	0	110,944	110,944	61,400	192,000	35	23	20	109	8	15	476,100	63,250	10,600	0	73,400	0
Fri 20	0	113,155	113,155	73,699	135,000	13	22	35	102	11	18	437,300	79,750	112,499	0	54,347	0
Sat 21	0	94,194	94,194	41,501	93,000	31	21	24	0	19	8	209,000	74,250	269,801	0	46,920	0
Sun 22	0	93,614	93,614	52,100	205,000	30	21	40	0	5	5	250,250	27,500	10,850	0	37,200	0
Mon 23	0	97,716	97,716	74,000	133,000	23	6	34	104	8	37	422,850	123,750	0	0	74,779	0
Tue 24	35,750	55,894	91,644	32,600	100,000	26	29	15	69	6	22	358,100	77,000	133,100	0	92,221	0
Wed 25	0	100,500	100,500	42,500	150,000	42	27	16	65	3	3	389,750	16,500	10,850	0	64,960	0
Thu 26	0	104,817	104,817	85,400	191,000	16	12	41	88	35	3	400,950	104,500	74,200	0	50,180	0
Fri 27	0	100,922	100,922	70,500	72,000	37	23	31	99	6	14	487,850	55,000	0	0	86,600	0
Sat 28	0	103,148	103,148	79,600	85,000	23	22	40	118	18	14	516,950	88,000	50,500	0	44,580	0
Sun 29	0	102,064	102,064	66,799	162,000	33	37	20	111	18	19	513,900	101,750	69,849	0	35,380	113,140
Mon 30	0	104,382	104,382	73,201	286,000	17	23	39	100	13	26	457,250	107,250	129,851	0	85,120	0
Tue 31	0	103,446	103,446	0	185,000	33	33	19	104	18	14	483,350	88,000	0	0	0	0
	35,750	2,978,691	3,014,441	1,874,500	4,722,000									2,257,250	0	2,211,328	113,140
Ave:	1,153	96,087	97,240	60,468	152,323							418,387	103,347	72,815	0	71,333	3,650
Min:	0	55,894	81,733	0	65,000							206,250	16,500	0	0	0	0
Max:	35,750	117,306	117,306	85,400	286,000							599,850	319,000	316,001	0	180,200	113,140

Transfer = (change in Primary Sludge Inventory) + (sludge pumped from PSTs to Pri. Dig.) + (Thickened Sludge pumped to Pri. Dig.)

Mix Tank Overflow Potential = (change in Mix Tank level) + gallons from PSTs + secondary sludge (350 gpm) - GBT feed

January 2012 Soluble Sulfides Report

	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	Sludge Processed BFPs	GBTs
1-Jan							29,299	196,570
2-Jan							180,200	275,906
3-Jan							141,581	290,820
4-Jan							135,660	293,963
5-Jan							116,940	254,339
6-Jan							68,640	201,539
7-Jan							53,900	179,983
8-Jan							41,200	179,140
9-Jan							53,101	295,203
10-Jan							113,039	279,314
11-Jan							86,080	278,278
12-Jan							73,681	304,427
13-Jan							60,820	302,834
14-Jan							51,500	176,443
15-Jan							33,200	143,482
16-Jan							78,300	268,231
17-Jan							81,600	284,346
18-Jan							66,900	300,346
19-Jan							73,400	329,773
20-Jan							54,347	321,493
21-Jan							46,920	203,606
22-Jan							37,200	197,646
23-Jan							74,779	383,054
24-Jan							92,221	166,318
25-Jan							64,960	198,670
26-Jan							50,180	307,052
27-Jan							86,600	260,808
28-Jan							44,580	226,437
29-Jan							35,380	186,124
30-Jan							85,120	294,608
31-Jan							0	0
Ave:	N/A	N/A	N/A	N/A	N/A	N/A		
Min:	0.000	0.000	0.000	0.000	0.000	0.000		
Max:	0.000	0.000	0.000	0.000	0.000	0.000		

January 2012 Disposal Site Report

Date	Sludge Conestoga (Tons)	Sludge Rolling Hills (Tons)	Sludge Modern (Tons)	Sludge Pioneer Crossing (Tons)	6th St. (Tons)	Grit (Tons)	Tank Cleanings (Tons)	Scum (Tons)	San Swr Soil (Tons)	Exeter Sludge (Gallons)	Exeter % Solids	Valley Forge Sludge (Gallons)	Valley Forge % Solids	Total Cans Hauled Biosolids
Sun 1														
Mon 2				92.46										5
Tue 3				85.26										5
Wed 4				14.46										1
Thu 5														
Fri 6				36.47		2.75								2
Sat 7														
Sun 8														
Mon 9				71.22										4
Tue 10				37.04										2
Wed 11				52.13										3
Thu 12				16.61										1
Fri 13				18.18	6.15									1
Sat 14				16.96										1
Sun 15														
Mon 16				54.27										3
Tue 17				37.13										2
Wed 18				17.64										1
Thu 19				35.35										2
Fri 20				47.30										3
Sat 21				18.59										1
Sun 22														
Mon 23				49.55	8.44									3
Tue 24				35.14										2
Wed 25				36.72	12.86									2
Thu 26				17.41	11.05									1
Fri 27				32.19										2
Sat 28														5
Sun 29														
Mon 30				88.03										5
Tue 31				35.25										2
Total:	0.00	0.00	0.00	945.36	38.50	2.75	0.00	0.00	0.00	0		0		59
Ave:	0.00	0.00	0.00	41.10	9.63	2.75	0.00	0.00	0.00	0		0		
Min:	0.00	0.00	0.00	14.46	6.15	2.75	0.00	0.00	0.00	0		0		
Max:	0.00	0.00	0.00	92.46	12.86	2.75	0.00	0.00	0.00	0		0		

January 2012 Supernating Data

	Digester#4	Gallons Supernated	%Solids	lbs supernated	Digester#5	Gallons Supernated	%Solids	lbs supernated	Total Gallons Supernated	Total lbs Supernated
Sun 1									0	0
Mon 2									0	0
Tue 3									0	0
Wed 4									0	0
Thu 5									0	0
Fri 6									0	0
Sat 7									0	0
Sun 8									0	0
Mon 9									0	0
Tue 10									0	0
Wed 11									0	0
Thu 12									0	0
Fri 13									0	0
Sat 14									0	0
Sun 15									0	0
Mon 16									0	0
Tue 17									0	0
Wed 18									0	0
Thu 19									0	0
Fri 20									0	0
Sat 21									0	0
Sun 22									0	0
Mon 23									0	0
Tue 24									0	0
Wed 25									0	0
Thu 26									0	0
Fri 27									0	0
Sat 28									0	0
Sun 29									0	0
Mon 30									0	0
Tue 31									0	0
TOTAL		0		0		0		0	0	0
AVG.										

January 2012 Laboratory Results

	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	% Solids GBT	% Solids GBT Filtrate	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	P1-4 %TS	P1-4 %VS	Dig 4 %TS	Dig 4 %VS	Dig 5 %TS	Dig 5 %VS
1-Jan	2.90%	19.70%	0.06%	3.96%													
2-Jan	1.49%	19.37%	0.11%	5.17%													
3-Jan		14.35%	0.11%	2.62%													
4-Jan	0.58%	16.19%	0.16%	3.00%								2.02%	84.38%	0.85%	65.71%	0.38%	70.59%
5-Jan	0.94%	19.73%	0.14%	4.88%													
6-Jan	1.86%	18.69%	0.12%	6.29%										0.76%		2.35%	
7-Jan	2.29%	18.08%	0.09%	6.44%													
8-Jan	2.66%	19.19%	0.10%	6.66%													
9-Jan	2.30%	17.98%	0.12%	3.29%										2.98%		1.88%	
10-Jan	1.24%	17.22%	0.13%	3.77%								3.11%					
11-Jan	2.21%	18.15%	0.13%	3.95%										0.45%		2.03%	
12-Jan	1.77%	18.24%	0.16%	5.06%								3.07%	84.07%				
13-Jan	1.88%	18.90%	0.14%	3.94%										2.71%	66.96%	2.05%	68.97%
14-Jan	1.71%	17.73%	0.10%	2.54%													
15-Jan	2.72%	18.45%	0.08%	3.16%													
16-Jan	1.92%	17.71%	0.14%	3.20%													
17-Jan	2.04%	17.66%	0.10%	3.31%								2.86%	85.47%				
18-Jan	2.16%	4.37%	0.11%	4.35%										1.71%	67.60%	1.70%	67.10%
19-Jan	2.26%	18.60%	0.19%	3.25%													
20-Jan	1.79%	18.39%	0.12%	2.87%										2.98%		2.09%	
21-Jan	2.09%	17.16%	0.11%	5.70%													
22-Jan	2.55%	19.65%	0.11%	5.81%													
23-Jan	1.71%	17.62%	0.16%	2.86%										1.41%		3.09%	
24-Jan	1.74%	18.88%	0.14%	3.72%								2.37%	80.90%				
25-Jan	2.03%	18.48%	0.18%	4.30%										2.64%	64.86%	1.59%	66.67%
26-Jan	2.69%	19.85%	0.10%	4.43%													
27-Jan	1.72%	19.06%	0.13%	3.40%										1.94%		5.87%	
28-Jan	2.56%	16.70%	0.12%	3.13%													
29-Jan	2.78%	18.43%	0.10%	2.70%													
30-Jan	3.06%	20.05%	0.15%	3.91%										2.63%		2.02%	
31-Jan	1.51%	17.56%	0.17%	2.80%								3.31%	84.75%				
Avg	2.04%	17.81%	0.13%	4.02%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.79%	83.91%	1.91%	66.28%	2.28%	68.33%
Min	0.58%	4.37%	0.06%	2.54%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	3.31%	85.47%	2.98%	67.60%	5.87%	70.59%
Max	3.06%	20.05%	0.19%	6.66%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	2.02%	80.90%	0.45%	64.86%	0.38%	66.67%

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

RECEIVED
EPA REGION III
JAN 24 2012
WATER PROTECTION DIVISION

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 196013690

(3WP00)
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	12/01/2011	TO	12/31/2011

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	56	******		0	DAILY	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.6	******	******		0	7/DAILY	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	7.9		0	DAILY	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	2367	3410		******	15	18		0	DAILY	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	890	******		******	5.6	******		0	DAILY	COMP24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	18.95	31.44		******	******	******	******	0	CONTIN UOUS	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.02	******		0	2/SHIFT	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	(610)655-6258		1/13/2012
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NONE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		**MM/DD/YYYY**
FROM	12/01/2011	**TO**	12/31/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01769	******		******	<0.00010	******		0	WEEKLY	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	8	******		0	DAILY	GRAB
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1795	2152		******	11	12		0	DAILY	COMP24
80082 1 1 Effluent Gross	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	(610)655-6258 AREA Code / NUMBER		1/13/2012 MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NONE

	December 2011					City of Reading Wastewater Treatment Plant								
	Final Effluent								preSO2		COLOR			Air Temp.
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Dec	18.1	19	4	15	6.4	20.23	7.7	7.5	0.31		458	50	0.0	32	52
2-Dec	19.6	19	10	17	6.7	18.38	7.5	7.6	0.69		71	75	0.0	26	54
3-Dec	18.9	16	9	16	3.7	18.00	7.9	7.5	1.01		4	75	0.0	26	52
4-Dec	18.6	19	12	23	3.5	19.12	7.7	7.5	0.96		5	65	0.0	29	57
5-Dec	16.4	26	16	20	3.3	18.38	7.2	7.3	0.70		45	60	0.0	35	59
6-Dec	18.1	25	13	24	5.5	18.01	6.9	7.5	0.71		7	60	0.1	52	62
7-Dec	18.4	28	14	28	8.1	[redacted]	6.7	7.6	0.67		11	50	1.6	37	62
8-Dec	14.8	16	10	14	3.2	[redacted]	6.7	7.5	1.25		11	33	0.2	29	44
9-Dec	17.0	14	8	9	3.6	22.02	7.6	7.5	1.18		7	33	0.0	27	51
10-Dec	16.1	14	10	11	3.1	20.29	7.8	7.6	1.03		1	42	0.0	25	44
11-Dec	18.0	12	9	8	3.2	19.08	8.0	7.9	1.03		1	50	0.0	20	45
12-Dec	17.0	18	19	15	6.5	19.69	8.0	7.5	0.96		1	42	0.0	19	46
13-Dec	14.7	16	10	14	7.1	18.21	7.9	7.5	0.87		1	60	0.0	21	49
14-Dec	19.9	21	9	11	5.6	18.21	7.4	7.7	0.98		2	60	0.0	28	50
15-Dec	17.2	21	12	8	5.0	18.41	7.2	7.5	0.54		9	60	0.0	45	59
16-Dec	18.9	22	13	14	3.7	16.41	7.3	7.6	0.66		14	60	0.0	39	59
17-Dec	20.0	22	12	16	4.5	16.46	7.8	7.9	0.54		72	60	0.0	28	40
18-Dec	17.7	18	12	12	5.2	16.81	7.0	7.7	0.48		5	60	0.0	24	38
19-Dec	16.7	23	11	19	5.6	17.97	7.7	7.7	0.56		17	60	0.0	22	48
20-Dec	15.8	27	13	15	5.9	16.71	7.3	7.6	0.34		58	60	0.2	39	50
21-Dec	20.1	34	17	18	7.5	18.06	7.1	7.7	0.68		5	60	0.2	40	62
22-Dec	17.9	20	9	12	6.0	20.55	7.1	7.6	0.42		57	65	0.1	42	62
23-Dec	20.9	20	13	13	6.7	19.10	6.8	7.8	0.84		6	60	0.7	32	49
24-Dec	16.0	16	10	10	5.3	16.97	7.6	7.4	0.41		11	50	0.0	26	42
25-Dec	14.1	22	12	12	6.9	15.74	7.7	7.5	0.51		7	50	0.0	25	49
26-Dec	19.2	24	14	17	8.6	16.89	8.1	7.9	0.36		1.3	60	0.0	28	48
27-Dec	18.4	24	13	15	9.9	[redacted]	7.2	7.6	0.47		9	50	0.7	27	53
28-Dec	17.1	23	12	18	5.0	18.93	6.6	7.4	0.74		4	50	0.0	27	44
29-Dec	14.6	15	8	16	5.7	17.78	8.4	7.5	0.59		11	50	0.0	22	35
30-Dec	16.8	17	9	5	6.5	17.50	7.4	7.6	0.51		11	50	0.0	25	55
31-Dec	20.4	18	9	11	6.3	17.39	7.5	7.9	0.35		2	65	0.0	36	55
						See DO profile					<				
TOTAL		629	352	456	173.4	587.3		235.5	21.35			1725	3.9		
Week 1	18.3	20	12	18	5.3	21.74	7.38	7.49	0.72		86	62	0.2	34	57
Week 2	16.8	19	12	12	4.6	18.07	7.63	7.61	1.04		3	46	0.0	24	47
Week 3	18.1	23	12	14	5.3	18.02	7.34	7.68	0.54		26	60	0.1	34	51
Week 4	17.7	20	11	13	6.9	17.99	7.30	7.60	0.54		14	55	0.2	30	50
Monthly	17.7	20	11	15	5.6	18.95	7.45	7.60	0.69		8	56	0.1	30	51
	Weekly averages: 12/4 - 12/10, 12/11-17, 12/18-24 and 12/25-31.														
Min =	14.1	12	4	5	3.1	15.74	6.6	7.3	0.31		1	33	0.0	19	35
Max =	20.9	34	19	28	9.9	31.44	8.4	7.9	1.25		458	75	1.6	52	62
DISCHARGE LIMITATIONS															
Ave Monthly:			25	30	18		Min.	6.0			10,000	186			
Ave Weekly:			40	45			of	to							
Inst. Max:			50	60	24		5.0	9.0				465			

Print Date: 1/17/2012

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Dec	6,013	30,941	36,955	-1,598		35,356	3,206	675	6,391	23,869	30,260	13,690	43,950	2,531	3,071	584	1,255	1,839	2,285	7,314	4,125	1,085
2-Dec	5,768	37,346	43,114	41		43,154	2,912	1,533	5,705	48,488	54,192	-16,702	37,490	2,606	1,843	589	1,661	2,250	1,364	3,182	3,614	1,030
3-Dec	6,053	37,016	43,069	244		43,314	2,402	1,351	6,372	98,778	105,149	-63,302	41,848	2,402	883	605	1,704	2,309	1,383	1,070	3,692	551
4-Dec	7,163	46,872	54,036	-4,540	704	49,496	3,030	1,914	8,018	67,884	75,902	-30,062	45,840	3,668	5,633	647	1,767	2,414	2,380	2,308	4,795	553
5-Dec	6,147	44,792	50,939	-7,518		43,421	3,986	2,453	6,053	30,833	36,886	9,520	46,407	3,066	2,649	549	1,615	2,163	1,758	2,492	3,921	507
6-Dec	3,743	31,332	35,075	-4,714		30,362	3,755	1,953	5,864	59,137	65,001	-19,661	45,340	3,605	3,381	549	1,670	2,219	2,166	1,710	4,386	822
7-Dec	9,132	47,312	56,444	-6,624		49,820	7,342	3,671	12,420	38,252	50,672	-1,377	49,295	7,342	2,679	724	1,949	2,673	2,230	1,755	4,903	2,119
8-Dec	4,745	30,177	34,922	2,353	478	37,275	3,058	1,912	4,840	22,130	26,970	13,555	40,524	2,676	3,594	531	1,326	1,858	1,411	1,386	3,269	612
9-Dec	3,903	37,755	41,658	-12,950		28,708	2,571	1,469	5,074	20,503	25,577	6,577	32,153	1,653	2,135	543	1,525	2,068	1,000	1,408	3,068	661
10-Dec	4,345	30,389	34,734	5,210		39,943	2,369	1,692	4,760	22,018	26,778	7,372	34,150	1,861	1,787	593	1,617	2,210	717	964	2,927	516
11-Dec	6,165	37,604	43,769	-1,413	294	42,356	1,910	1,432	5,679	27,146	32,826	762	33,588	1,273	2,094	717	1,880	2,598	1,162	981	3,760	512
12-Dec	5,127	39,898	45,025	-9,372		35,654	2,956	3,120	5,587	24,025	29,612	2,049	31,660	2,463	1,720	622	1,737	2,360	2,703	6,048	5,063	1,072
13-Dec	4,910	41,698	46,608	-3,248		43,360	2,430	1,519	6,095	28,013	34,108	10,097	44,205	2,126	1,994	582	1,604	2,186	1,981	5,057	4,167	1,075
14-Dec	7,722	38,502	46,224	2,865		49,089	3,189	1,367	8,478	27,945	36,423	15,394	51,816	1,671	2,516	624	1,801	2,425	1,993	1,349	4,418	855
15-Dec	6,702	43,512	50,214	-10,176	237	40,039	3,224	1,842	6,146	29,279	35,426	582	36,008	1,228	1,291	582	1,535	2,117	476	468	2,593	763
16-Dec	12,365	13,649	26,014	17,144		43,158	3,011	1,779	21,256	13,844	35,100	2,219	37,319	1,916	331	477	1,755	2,232	1,424	4,849	3,656	505
17-Dec	5,479	29,204	34,683	2,122		36,806	3,020	1,647	6,210	48,385	54,595	-20,711	33,885	2,196	249	609	1,676	2,285	75	4,330	2,360	614
18-Dec	6,245	49,167	55,412	-10,331	1,822	45,081	2,524	1,682	6,469	96,733	103,202	-28,848	74,354	1,682	291	599	1,967	2,566	713	5,916	3,279	722
19-Dec	4,516	32,263	36,779	968		37,747	3,447	1,649	10,056	21,264	31,320	11,297	42,617	2,848	403	548	1,338	1,886	1,779	8,064	3,665	836
20-Dec	5,298	40,566	45,864	-10,966		34,897	3,763	1,812	6,236	40,160	46,397	-17,952	28,445	2,090	486	575	1,714	2,289	2,373	7,860	4,662	819
21-Dec	3,367	42,973	46,340	-3,297		43,043	5,121	2,561	3,000	39,307	42,306	-191	42,116	2,711	503	588	1,772	2,360	1,468	6,929	3,827	1,136
22-Dec	5,212	48,887	54,099	-15,769	527	38,331	3,428	1,542	6,398	33,664	40,063	-1,412	38,650	2,057	679	582	1,819	2,402	2,166	7,787	4,568	1,020
23-Dec	11,218	37,491	48,709	20,546		69,255	3,186	2,071	6,268	16,083	22,351	32,188	54,539	2,071	234	545	1,554	2,099	2,504	8,494	4,603	1,067
24-Dec	7,722	35,338	43,060	2,142		45,202	2,264	1,415	7,295	21,203	28,498	9,498	37,996	1,415	199	493	1,414	1,906	1,474	7,880	3,380	747
25-Dec	6,277	33,657	39,934	1,920		41,853	2,888	1,575	5,329	46,185	51,514	4,865	56,379	1,575	306	645	1,832	2,478	1,621	11,187	4,099	902
26-Dec	8,489	36,456	44,945	-5,230		39,715	3,381	1,972	9,244	43,177	52,420	-23,367	29,054	2,395	1,636	667	1,935	2,601	2,210	7,926	4,811	1,211
27-Dec	5,004	41,013	46,017	-1,197	590	44,820	4,337	2,349	5,546	32,254	37,801	10,996	48,797	2,711	185	634	1,905	2,539	2,016	8,081	4,554	1,786
28-Dec	8,827	52,482	61,309	-170		61,139	3,631	1,895	8,407	39,476	47,882	49,045	96,927	2,842	576	501	1,449	1,950	2,330	6,575	4,280	789
29-Dec	4,753	31,141	35,894	3,230	609	39,124	2,224	1,186	5,539	20,691	26,230	9,736	35,966	2,373	325	534	1,484	2,018	1,235	6,620	3,253	841
30-Dec	5,044	39,324	44,368	1,692		46,060	2,481	1,314	5,548	31,157	36,705	7,502	44,207	730	84	549	1,553	2,101	1,671	4,564	3,772	941
31-Dec	6,085	33,247	39,331	1,563		40,894	2,611	1,305	5,508	27,202	32,710	19,868	52,578	1,595	973	644	1,834	2,477	1,400	1,625	3,877	911
TOTAL	193,540	1,172,005	1,365,546	-47,073	5,260	1,318,473	99,657	55,656	215,792	1,139,084	1,354,876	13,227	1,368,103	73,377	44,729	18,233	51,647	69,879	51,468	146,180	121,347	27,581
Week 1	6,289	39,373	45,662	-3,530	704	42,132	3,730	2,152	7,260	52,463	59,723	-15,413	44,310	3,410	2,877	607	1,660	2,267	1,938	2,833	4,205	952
Week 2	5,274	36,575	41,849	-2,365	386	39,484	2,820	1,815	5,788	24,540	30,327	7,972	38,300	1,839	2,263	602	1,642	2,243	1,567	2,456	3,810	758
Week 3	6,282	35,905	42,187	-2,077	1,029	40,110	3,390	1,819	8,482	41,282	49,764	-7,658	42,106	2,125	508	568	1,680	2,248	1,187	5,488	3,435	771
Week 4	7,536	40,761	48,296	320	559	48,617	3,079	1,657	6,927	33,149	40,075	11,688	51,763	2,031	545	581	1,701	2,282	2,046	8,276	4,328	1,075
Monthly	6,243	37,807	44,050	-1,518	658	42,531	3,215	1,795	6,961	36,745	43,706	427	44,132	2,367	1,443	588	1,666	2,254	1,660	4,715	3,914	890
Min =	3367	13649	26014	-15769	237	28,708	1,910	675	3,000	13,844	22,351	-63,302	28,445	730	84	477	1,255	1,839	75	468	2,360	505
Max =	12365	52482	61309	20546	1822	69,255	7,342	3,671	21,256	98,778	105,149	49,045	96,927	7,342	5,633	724	1,967	2,673	2,703	11,187	5,063	2,119
								4,170						7,130								3,000
								6,255						10,696								

Print Date: 1/12/2012

		GC Mercury (Hg)			6th St Mercury (Hg)			Inf. Mercury (Hg)			Eff. Mercury (Hg)		
DATE		mg/L		lbs/day		mg/L		lbs/day	mg/L		lbs/day		mg/L		lbs/day
1-Dec															
2-Dec															
3-Dec															
4-Dec															
5-Dec															
6-Dec	<	0.00010	<	0.00312	<	0.00010	<	0.01037	0.00030		0.04048	<	0.00010	<	0.01502
7-Dec		0.00020		0.01218	<	0.00010	<	0.02013	0.00010		0.02622	<	0.00010	<	0.02622
8-Dec															
9-Dec															
10-Dec															
11-Dec															
12-Dec	<	0.00010	<	0.00354		0.00010		0.01073							
13-Dec									0.00020		0.02816	<	0.00010	<	0.01519
14-Dec															
15-Dec															
16-Dec															
17-Dec															
18-Dec															
19-Dec															
20-Dec		0.00010		0.00303		0.00010		0.01014	0.00020		0.02634	<	0.00010	<	0.01394
21-Dec															
22-Dec															
23-Dec															
24-Dec															
25-Dec															
26-Dec															
27-Dec	<	0.00010	<	0.00417	<	0.00010	<	0.01390	0.00020		0.03615		0.00010		0.01807
28-Dec															
29-Dec															
30-Dec															
31-Dec															
Total		0.00060		0.02603		0.00050		0.06528	0.00100		0.15734		0.00050		0.08844
Week 1	<	0.00015	<	0.00765	<	0.00010	<	0.01525	0.00020		0.03335	<	0.00010	<	0.02062
Week 2	<	0.00010	<	0.00354		0.00010		0.01073	0.00020		0.02816	<	0.00010	<	0.01519
Week 3		0.00010		0.00303		0.00010		0.01014	0.00020		0.02634	<	0.00010	<	0.01394
Week 4	<	0.00010	<	0.00417	<	0.00010	<	0.01390	0.00020		0.03615	<	0.00010	<	0.01807
Monthly	<	0.00012	<	0.00521	<	0.00010	<	0.01306	0.00020		0.03147	<	0.00010	<	0.01769
Min =	<	0.00010	<	0.00303	<	0.00010	<	0.01014	0.00010		0.02622	<	0.00010	<	0.01394
Max =		0.00020		0.01218		0.00010		0.02013	0.00030		0.04048	<	0.00010	<	0.02622
													0.00023		0.055
													0.00046		

	December 2011				City of Reading Wastewater Treatment Plant																			Laboratory Process Control Data							
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent						
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-Dec	175	186	7.9	17.0	350	270	7.4	14.2	301	246	15.0	-13	112	18.6	288	358	33.6	7.6	9.6	16.0	14.72	180	44	21.9	0.4	6.9	26	17	18.9		5.0	7.5	26	10
2-Dec	182	180	7.7	18.6	362	470	7.4	16.1	320	402	16.7	0	-124	10.1	320	278	26.8	7.4	9.7	17.9	16.17	208	70	20.4	0.4	6.9	33	30	18.1	220	5.0	7.6	ns	ns
3-Dec	190	200	7.8	19.0	365	974	7.4	16.8	323	789	17.3	2	-475	10.4	325	314	27.7	7.4	9.4	16.6	15.98	205	46	18.7	0.1	6.7	29	25	15.6		5.4	7.4	25	15
4-Dec	218	244	7.7	19.7	435	630	7.5	16.4	384	540	17.2	-32	-214	16.9	352	326	34.1	7.2	13.1	11.2	16.86	212	50	20.3	0.3	6.8	36	32	15.9		1.3	7.4	26	13
5-Dec	195	192	7.7	17.4	430	296	7.3	15.5	375	272	15.9	-55	70	13.0	320	342	28.9	7.6	8.5	17.9	16.27	262	76	20.6	0.2	7.0	38	34	17.3	260	3.5	7.4	32	17
6-Dec	120	188	7.7	17.6	302	570	7.2	16.1	260	482	16.4	-35	-146	16.1	225	336	32.5	7.0	9.2	16.1	16.18	200	64	20.9	2.1	6.6	34	19	17.7		0.5	7.2	32	21
7-Dec	150	204	7.5	11.9	235	190	7.3	9.7	215	193	10.2	-25	-5	8.5	190	188	18.7	7.2	6.5	18.2	31.44	135	43	14.6	0.2	6.1	41	39	19.0	280	1.8	6.9	34	25
8-Dec	100	102	7.6	11.2	210	154	8.2	9.2	183	141	9.7	12	71	7.4	195	212	17.1	7.4	11.2	17.4	22.92	130	83	12.1	7.5	7.2	22	17	12.1		6.3	7.3	22	17
9-Dec	100	130	7.6	13.9	302	164	ns	12.2	254	156	12.6	-79	40	6.1	175	196	18.7	7.3	11.2	10.5	19.67	155	65	15.6	1.8	7.0	26	24	13.6	260	5.9	7.2	22	15
10-Dec	115	126	7.7	15.7	265	192	7.5	14.1	228	176	14.5	34	48	4.7	262	224	19.2	7.7	12.1	17.0	18.28	155	47	15.6	7.8	8.3	38	41	13.8		2.2	7.4	28	18
11-Dec	165	152	7.7	19.2	338	244	7.5	16.9	295	221	17.5	-10	5	7.8	285	226	25.3	7.4	10.7	16.7	17.82	145	51	17.1	0.1	7.0	31	37	14.2		5.5	7.4	26	14
12-Dec	145	158	7.8	17.6	372	224	7.4	16.2	316	208	16.5	-66	14	19.0	250	222	35.5	7.7	8.5	17.0	17.10	180	80	22.3	1.4	7.0	30	29	19.9	220	4.3	7.4	31	23
13-Dec	145	180	7.8	17.2	390	262	7.5	15.0	331	242	15.5	-23	72	14.1	308	314	29.6	7.3	8.2	16.8	16.88	205	50	19.5	0.1	6.9	34	29	15.8		5.1	7.5	33	18
14-Dec	235	258	7.9	19.0	372	270	7.4	17.4	339	267	17.8	21	113	14.6	360	380	32.4	7.3	8.6	16.9	16.35	200	46	20.2	0.9	6.9	38	35	20.0	300	1.3	7.3	23	9
15-Dec	205	188	7.6	17.8	428	288	7.4	15.1	374	264	15.8	-76	4	3.5	298	268	19.3	7.6	7.6	16.1	16.11	200	56	19.4	6.8	6.8	45	33	15.2		7.3	7.3	33	13
16-Dec	420	722	7.7	16.2	140	142	7.3	18.0	205	277	17.6	135	17	11.2	340	294	28.8	7.1	7.3	14.9	15.22	235	74	19.2	0.1	6.7	48	35	16.3	220	5.1	7.6	30	17
17-Dec	180	204	7.7	20.0	338	560	7.4	19.4	297	467	19.6	18	-177	0.6	315	290	20.2	7.2	8.7	17.2	14.01	205	69	20.8	0.1	6.8	27	14	18.2		4.6	7.7	30	15
18-Dec	195	202	7.8	18.7	430	846	7.5	17.2	379	705	17.5	-71	-197	4.9	308	508	22.4	7.3	7.2	13.9	17.55	170	54	20.3	0.1	7.0	90	156	17.4		5.4	7.3	25	15
19-Dec	150	334	7.7	18.2	352	232	7.3	14.6	302	257	15.5	8	93	14.6	310	350	30.1	7.4	9.3	15.7	14.60	212	71	19.4	0.1	6.9	30	33	17.3	220	5.6	7.7	26	17
20-Dec	175	206	7.6	19.0	400	396	7.1	16.9	348	352	17.4	-83	-136	18.0	265	216	35.4	7.4	9.5	17.1	15.79	222	64	23.5	2.1	6.9	42	32	18.5		4.2	7.2	34	18
21-Dec	110	98	7.8	19.2	422	386	7.6	17.4	350	319	17.8	-25	-1	11.1	325	318	28.9	7.6	6.5	14.1	15.88	190	55	22.2	1.5	7.0	42	42	19.9	340	4.7	7.3	200	17
22-Dec	145	178	7.6	16.2	395	272	7.5	14.7	339	251	15.0	-99	-9	13.6	240	242	28.6	7.2	8.6	16.5	19.15	185	61	18.9	0.1	6.9	32	22	17.8		5.3	7.4	28	17
23-Dec	315	176	7.8	15.3	345	148	7.8	14.3	338	155	14.5	142	223	17.4	480	378	31.9	7.4	11.3	15.8	17.30	165	66	17.8	4.9	7.0	40	50	14.9	220	2.0	7.2	26	17
24-Dec	235	222	7.6	15.0	360	216	7.4	14.4	329	218	14.6	16	72	11.2	345	290	25.8	7.8	10.1	16.4	15.71	198	56	19.4	0.1	7.8	48	57	17.1		5.2	7.4	14	5
25-Dec	212	180	7.4	21.8	360	494	7.5	19.6	324	418	20.1	16	40	13.2	340	458	33.3	7.3	9.5	16.1	14.76	205	70	25.6	0.1	7.0	27	18	22.1		6.3	7.4	32	13
26-Dec	270	294	7.6	21.2	358	424	7.6	19.0	337	393	19.5	-39	-175	16.6	298	218	36.1	7.3	10.3	12.8	15.98	238	66	24.4	1.1	6.8	46	52	21.2		5.9	7.4	32	13
27-Dec	120	133	7.7	15.2	295	232	7.6	13.7	255	209	14.0	-7	61	11.2	248	270	25.2	7.3	11.6	16.1	21.67	155	56	20.8	0.1	6.9	38	35	19.5		6.1	6.9	34	19
28-Dec	252	240	7.7	14.3	460	346	7.8	12.7	411	321	13.1	-1	329	15.6	410	650	28.7	7.5	15.3	15.5	17.88	175	67	17.3	5.5	7.1	34	50	14.4	260	7.2	7.4	38	22
29-Dec	145	169	7.6	16.3	298	198	7.4	14.2	261	191	14.7	24	71	9.0	285	262	23.7	7.6	11.1	15.5	16.46	195	97	17.5	0.1	7.0	36	41	13.9		6.5	6.5	26	26
30-Dec	160	176	7.7	17.4	390	309	7.5	15.4	335	277	15.9	13	57	12.6	348	334	28.5	7.4	10.4	15.6	15.87	215	55	19.7	0.1	6.9	40	24	18.0	220	5.5	7.4	34	4
31-Dec	190	172	7.7	20.1	330	270	7.5	18.2	296	246	18.7	12	150	10.5	308	396	29.2	7.2	11.8	14.2	15.92	190	76	20.3	1.1	6.7	36	39	18.5		4.7	7.1	32	19
TOTAL	5714	6394	238.3	536.9	10829	10669	223.8	480.6	9603	9656	494.2	-285	2	362.0	9318	9658	856.2	###	###	489.7	536.50	5927	1928	606.3	46.8	###	1157	1141	532.1	3020.0	144.6	227.0	1034	482
Week 1	176	199	7.7	17.3	354	486	7.4	15.0	311	418	15.5	-23	-112	13.4	289	306	28.9	7.4	9.4	16.3	18.23	200	56	19.6	0.5	6.7	34	28	17.5	253	3.2	7.3	29	17
Week 2	144	158	7.7	16.3	321	216	7.6	14.4	278	202	14.9	-16	52	10.5	262	253	25.4	7.4	10.1	16.0	18.43	167	60	17.5	2.8	7.2	31	30	15.6	260	4.3	7.4	26	16
Week 3	205	279	7.7	18.4	359	407	7.4	16.9	322	377	17.3	-13	-57	9.1	309	321	26.4	7.4	8.0	15.6	15.59	205	63	20.7	1.5	6.9	46	49	17.5	260	5.3	7.4	54	16
Week 4	221	203	7.6	17.0	368	305	7.6	15.5	333	281	15.8	4	77	14.1	337	358	29.9	7.4	11.0	15.6	17.49	189	63	20.6	1.7	7.1	38	41	18.1	240	5.4	7.3	29	15
Monthly	184	206	7.7	17.3	349	344	7.5	15.5	310	311	15.9	-9	0	11.7	301	312	27.6	7.4	9.8	15.8	17.31	191	62	19.6	1.5	6.9	37	37	17.2	252	4.7	7.3	34	16
Min =	100	98	7.4	11	140	142	7.1	9	183	141	9.7	-99	-475	0.6	175	188	17.1	7.0	6.5	10.5	14.01	130	43	12.1	0.1	6.1	22	14	12.1	220	0.5	6.5	14	4
Max =	420	722	7.9	22	460	974	8.2	20	411	789	20.1	142	329	19.0	480	650	36.1	7.8	15.3	18.2	31.44	262	97	25.6	7.8	8.3	90	156	22.1	340	7.3	7.7	200	26
									%Removal						%Removal																			
									93.45	95.28	64.91				93.25	95.28	79.75																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	chloride	DO	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	DO	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
13.1		120	######	7.6	22	24	9	6.7				8.6	7.4		380	905
ns	200	ns	######	7.5	19	12	7	6.5	180			8.9	7.5		530	915
10.3		120	######	7.6	18	12	11	3.5				8.4	7.4		316	383
10.8		120	######	7.5	20	12	8	4.0				7.5	7.4	140	1120	459
12.6	200	120	######	7.5	22	16	10	3.6	160	10.6	0.780	7.8	7.7		542	510
13.6		125	######	7.2	30	14	5	5.5				6.8	7.4		670	339
9.0	220	110	######	7.2	30	20	27	6.9	180			6.5	7.2		473	310
7.4		90	######	7.4	18	9	9	3.2				8.4	7.4	101	760	293
8.7	200	120	######	7.4	16	8	7	3.7	200			8.3	7.3		723	477
9.3		110	######	7.5	25	12	9	3.3				8.0	7.4		623	336
9.7		110	######	7.6	20	11	8	3.5				8.1	7.5	60	427	200
13.6	200	115	######	7.6	24	24	12	6.9	180	8.4	0.772	8.5	7.3		263	925
12.5		120	######	7.5	23	12	8	7.3				8.0	7.7		410	1040
12.4	240	125	######	7.5	22	12	4	6.0	160			7.5	7.4		653	350
11.0		125	######	7.3	27	13	9	4.9				7.4	7.4	44	240	87
9.7	200	130	######	7.6	20	13	10	3.5	180			7.0	7.4		85	1245
11.5		120	######	7.5	22	13	5	4.5				7.6	7.4		74	1285
12.2		120	######	7.6	19	10	9	5.4				7.6	7.4	388	62	1260
11.3	200	115	######	7.6	23	13	11	5.3	180	9.9	0.994	8.2	7.7		68	1360
13.0		125	######	7.4	30	16	10	5.4				7.2	7.3		86	1390
14.3	220	130	######	7.4	32	14	8	6.9	180			7.5	7.3		90	1240
12.2		145	######	8.2	25	9	6	5.6				7.4	7.4	90	116	1330
10.9	200	140	######	7.4	28	10	13	6.6	180			6.7	7.4		38	1380
13.3		135	######	7.4	26	12	5	5.9				8.0	7.4		47	1860
15.1		105	######	7.5	24	12	4	7.4				8.3	7.4		52	1900
15.9		105	######	7.4	28	15	11	9.0				8.0	7.2		291	1410
15.4		115	######	7.4	33	18	16	10.1				9.0	7.5	118	37	1615
9.7	180	110	######	7.5	34	12	11	4.9	160	9.7	0.698	6.3	7.4		128	1460
9.3		120	######	7.5	21	12	20	5.6				8.6	7.5	131	70	1425
13.2	200	120	######	7.5	26	14	3	7.0	180			7.8	7.4		22	1200
13.1		115	######	7.3	26	14	13	6.9				8.1	7.3		251	419
354.1	2460.0	3580.0	######	232.1	753	418	298	175.2	2120.0	38.6	3.244	241.8	229.7	1072.0	9647.0	29308.0
11.6	207	119	######	7.4	23	16	11	5.2	173.3	10.6	0.780	7.8	7.4	140	576	546
10.5	213	113	######	7.5	21	13	8	4.8	180.0	8.4	0.772	8.1	7.4	81	551	517
11.9	207	124	######	7.5	25	13	9	5.1	180.0	9.9	0.994	7.5	7.4	216	101	1124
13.2	190	122	######	7.6	28	13	9	7.0	170.0	9.7	0.698	7.7	7.4	104	101	1565
11.8	205	119	######	7.5	24	13	10	5.7	176.7	9.7	0.811	7.8	7.4	134	311	945
7.4	180	90	######	7.2	16	8	3	3.2	160.0	8.4	0.698	6.3	7.2	44	22	87
15.9	240	145	######	8.2	34	24	27	10.1	200.0	10.6	0.994	9.0	7.7	388	1120	1900

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		December 2011																
		Flow (MGD)											On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
1-Dec	10.600	2.108	0.554	4.120	OOS	14.720	20.230	8.550	4.960	0.969	58	34						
2-Dec	12.370	2.321	0.578	3.800	OOS	16.170	18.380	7.990	4.910	0.417	49	30						
3-Dec	12.160	2.306	0.565	3.820	OOS	15.980	18.000	8.300	4.940	0.335	52	31						
4-Dec	12.920	2.569	0.677	3.940	OOS	16.860	19.120	8.430	5.070	0.603	50	30						
5-Dec	12.490	2.377	0.638	3.780	OOS	16.270	18.380	8.390	5.030	0.586	52	31						
6-Dec	12.440	2.392	0.718	3.740	OOS	16.180	18.010	8.400	5.040	0.605	52	31						
7-Dec	24.140	4.685	0.943	7.300	OOS	31.440	31.440	4.100	15.590	0.679	13	50						
8-Dec	17.230	3.386	0.717	5.690	OOS	22.920	22.920	4.590	OOS	0.567	20	OOS						
9-Dec	14.990	3.001	0.679	4.680	OOS	19.670	22.020	9.580	OOS	0.354	49	OOS						
10-Dec	13.750	2.817	0.602	4.530	OOS	18.280	20.290	8.250	OOS	0.344	45	OOS						
11-Dec	13.340	2.749	0.643	4.480	OOS	17.820	19.080	7.830	OOS	0.588	44	OOS						
12-Dec	12.860	2.537	0.649	4.240	OOS	17.100	19.690	7.220	OOS	0.784	42	OOS						
13-Dec	12.820	2.748	0.658	4.060	OOS	16.880	18.210	8.380	OOS	0.583	50	OOS						
14-Dec	12.410	3.464	0.655	3.940	OOS	16.350	18.210	8.550	OOS	0.462	52	OOS						
15-Dec	12.190	1.370	0.633	3.920	OOS	16.110	18.410	8.850	OOS	0.645	55	OOS						
16-Dec	11.690	2.204	0.536	3.530	OOS	15.220	16.410	8.140	OOS	0.467	53	OOS						
17-Dec	10.360	2.030	0.471	3.650	OOS	14.010	16.460	8.790	OOS	0.404	63	OOS						
18-Dec	13.710	2.930	0.728	3.840	OOS	17.550	16.810	8.340	OOS	0.563	48	OOS						
19-Dec	10.990	2.352	0.641	3.610	OOS	14.600	17.970	8.170	OOS	0.711	56	OOS						
20-Dec	12.160	2.095	0.614	3.630	OOS	15.790	16.710	7.910	OOS	0.678	50	OOS						
21-Dec	12.210	2.449	0.654	3.670	OOS	15.880	18.060	7.320	OOS	0.670	46	OOS						
22-Dec	14.840	2.754	0.744	4.310	OOS	19.150	20.550	7.280	OOS	0.702	38	OOS						
23-Dec	13.030	2.852	0.577	4.270	OOS	17.300	19.100	7.840	OOS	0.738	45	OOS						
24-Dec	11.770	2.423	0.506	3.940	OOS	15.710	16.970	7.890	OOS	0.508	50	OOS						
25-Dec	11.210	2.114	0.480	3.550	OOS	14.760	15.740	8.180	OOS	0.706	55	OOS						
26-Dec	12.210	2.620	0.633	3.770	OOS	15.980	16.890	8.100	OOS	0.674	51	OOS						
27-Dec	16.670	3.247	0.744	5.000	OOS	21.670	21.670	7.030	OOS	0.600	32	OOS						
28-Dec	13.680	2.671	0.683	4.200	OOS	17.880	18.930	8.850	OOS	0.540	49	OOS						
29-Dec	12.530	2.463	0.620	3.930	OOS	16.460	17.780	7.510	OOS	0.557	46	OOS						
30-Dec	12.090	2.376	0.588	3.780	OOS	15.870	17.500	8.920	OOS	0.456	56	OOS						
31-Dec	12.080	2.525	0.566	3.840	OOS	15.920	17.390	8.470	OOS	0.465	53	OOS						
	Influent flow used in lieu of Effluent due to inconsistencies with readings over 25 MGD.																	
Total	407.940	80.935	19.694	128.560	0.000	536.500	587.330	246.150	45.540	17.960	1475.389	236.70						
Week 1	13.874	2.680	0.668	4.357	#DIV/0!	18.231	21.740	7.737	6.506	0.599	47	34						
Week 2	13.914	2.957	0.658	4.517	#DIV/0!	18.431	18.067	7.771	#DIV/0!	0.526	43	#DIV/0!						
Week 3	11.901	2.204	0.611	3.693	#DIV/0!	15.594	18.024	8.217	#DIV/0!	0.591	53	#DIV/0!						
Week 4	13.344	2.669	0.624	4.149	#DIV/0!	17.493	17.986	7.881	#DIV/0!	0.638	46	#DIV/0!						
Monthly	13.159	2.611	0.635	4.147	#DIV/0!	17.306	18.946	7.940	6.506	0.579	48	34						
Min =	10.360	1.370	0.471	3.530	0.000	14.010	15.740	4.100	4.910	0.335	13	30						
Max =	24.140	4.685	0.943	7.300	0.000	31.440	31.440	9.580	15.590	0.969	63	50						

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	December 2011			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Dec															
2-Dec	7.0	396	5180	7.2	240	4620	7.1	531	5200	7.1	525	5400	7.1	390	5000
3-Dec															
4-Dec															
5-Dec	7.0	271	4740	7.2	504	5380	7.3	373	5160	7.2	523	5200	7.2	531	5140
6-Dec															
7-Dec	7.1	90	4840	7.2	406	5180	7.2	138	5500	7.1	54	5380	7.1	142	4920
8-Dec															
9-Dec	7.1		4680	7.1		4680	7.2		5360	7.1		5080	7.1		5040
10-Dec															
11-Dec															
12-Dec	7.1	431	4640	7.1	219	5340	7.2	704	5000	7.1	577	5180	7.1	415	5400
13-Dec															
14-Dec	7.2		4660	7.1		4920	7.3		5040	7.2		4800	7.2		5300
15-Dec															
16-Dec	7.2	173	4940	7.0	888	2300	7.2	619	5260	7.2	344	4760	7.2	415	5500
17-Dec															
18-Dec															
19-Dec	7.2	306	5040	7.1	1529	2260	7.2	558	4040	7.2	331	5280	7.2	440	5340
20-Dec															
21-Dec	7.1	233	4740	6.5	1565	3060	7.3	446	5400	7.2	408	5100	7.1	338	5400
22-Dec															
23-Dec	7.2		4720	6.7		1940	7.2		5500	7.1		5180	7.2		5200
24-Dec															
25-Dec															
26-Dec															
27-Dec															
28-Dec	7.0	510	5200	7.2	250	5340	7.2	162	5440	7.3	115	5540	7.2	115	4840
29-Dec															
30-Dec	7.2	208	5000	7.1	275	5080	7.2	496	4940	7.2	131	5260	7.2	60	5380
31-Dec															
Total	85.2	2618	58380	84.4	5876	50100	86.6	4027	61840	85.9	3008	62160	85.7	2846	62460
Week 1	7.0	252	4920	7.2	383	5060	7.2	347	5287	7.1	367	5327	7.1	354	5020
Week 2	7.1	431	4660	7.1	219	4980	7.2	704	5133	7.1	577	5020	7.1	415	5247
Week 3	7.1	237	4907	6.9	1,327	2540	7.2	541	4900	7.2	361	5047	7.2	398	5413
Week 4	7.1	510	4960	6.9	250	3640	7.2	162	5470	7.2	115	5360	7.2	115	5020
Monthly	7.1	291	4865	7.0	653	4175	7.2	447	5153	7.2	334	5180	7.1	316	5205
Min =	7.0	90	4640	6.5	219	1940	7.1	138	4040	7.1	54	4760	7.1	60	4840
Max =	7.2	510	5200	7.2	1565	5380	7.3	704	5500	7.3	577	5540	7.2	531	5500

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Dissolved Oxygen -December 2011

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
12/1/2011	7.7	7.9	8.1	8.4	8.4	8.4	8.9		7.7
12/2/2011	8.3	8.6	7.6	7.8	7.7	7.7	9.3		7.6
12/3/2011	7.9	7.9	8.1	8.1	8.0	8.0	8.8		7.9
12/4/2011	7.8	8.2	8.2	8.1	7.8	7.7	7.7		7.7
12/5/2011	7.8	7.7	7.8	7.3	7.2	7.3	8.2		7.2
12/6/2011	7.2	7.1	7.0	7.0	6.9	6.9	7.8		6.9
12/7/2011	7.0	7.0	6.7	6.7	6.8	6.8	7.2		6.7
12/8/2011	6.7	7.5	8.2	8.2	7.9	7.7	8.3		6.7
12/9/2011	7.6	7.9	8.3	8.2	8.0	7.9	8.8		7.6
12/10/2011	7.8	7.9	8.5	8.3	8.2	8.0	8.5		7.8
12/11/2011	8.2	8.3	8.4	8.4	8.1	8.0	8.7		8.0
12/12/2011	8.1	8.0	8.3	8.2	8.1	8.1	8.8		8.0
12/13/2011	8.1	8.0	7.9	8.1	7.9	7.9	8.4		7.9
12/14/2011	7.9	8.0	7.7	7.7	7.6	7.4	8.2		7.4
12/15/2011	7.5	7.5	7.5	7.5	7.4	7.2	7.9		7.2
12/16/2011	7.3	7.5	7.5	7.7	7.7	7.5	7.6		7.3
12/17/2011	7.8	7.8	7.9	7.8	7.8	7.8	8.2		7.8
12/18/2011	7.8	8.0	7.1	7.0	7.9	7.9	8.4		7.0
12/19/2011	8.1	8.1	8.1	7.9	7.9	7.7	8.4		7.7
12/20/2011	7.7	7.6	7.6	7.4	7.4	7.3	8.0		7.3
12/21/2011	7.4	7.5	7.4	7.4	7.2	7.1	7.8		7.1
12/22/2011	7.3	7.4	7.1	7.1	7.2	7.2	7.7		7.1
12/23/2011	6.9	6.8	6.8	7.1	7.4	7.6	7.3		6.8
12/24/2011	7.6	7.6	7.8	7.7	7.7	7.7	8.3		7.6
12/25/2011	7.8	7.7	8.2	8.1	8.0	8.1	8.6		7.7
12/26/2011	8.1	8.4	8.1	8.2	8.2	8.2	8.5		8.1
12/27/2011	7.9	7.9	7.4	7.6	7.3	7.2	9.3		7.2
12/28/2011	6.6	6.9	7.6	8.0	8.1	8.0	7.6		6.6
12/29/2011	8.5	8.4	8.6	8.6	8.5	8.4	8.8		8.4
12/30/2011	8.1	8.2	8.7	7.8	7.7	7.4	8.4		7.4
12/31/2011	7.5	7.5	7.8	7.9	7.8	7.8	8.7		7.5
Min	6.60	6.80	6.73	6.69	6.76	6.79	7.2	Min	6.60
Max	8.50	8.60	8.70	8.60	8.50	8.40	9.3	Max	8.40
								Avg	7.45

December 2011
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Dec	0.02	0.02	0.01	0.00	0.00	0.01	0.01	
2-Dec	0.01	0.02	0.02	0.01	0.00	0.02	0.01	
3-Dec	0.01	0.02	0.02	0.00	0.01	0.01	0.01	
4-Dec	0.03	0.00	0.02	0.01	0.03	0.03	0.02	
5-Dec	0.02	0.01	0.02	0.02	0.01	0.02	0.02	
6-Dec	0.02	0.02	0.02	0.02	0.03	0.04	0.03	
7-Dec	0.02	0.02	0.02	0.03	0.03	0.03	0.03	
8-Dec	0.00	0.00	0.01	0.00	0.00	0.03	0.01	
9-Dec	0.00	0.01	0.10	0.03	0.02	0.01	0.03	
10-Dec	0.00	0.01	0.01	0.01	0.01	0.07	0.02	
11-Dec	0.05	0.01	0.09	0.01	0.02	0.00	0.03	
12-Dec	0.01	0.02	0.02	0.06	0.03	0.00	0.02	
13-Dec	0.02	0.02	0.02	0.12	0.02	0.03	0.04	
14-Dec	0.00	0.03	0.02	0.02	0.21	0.15	0.07	
15-Dec	0.01	0.02	0.02	0.01	0.00	0.00	0.01	0.0
16-Dec	0.03	0.01	0.02	0.02	0.04	0.02	0.02	
17-Dec	0.03	0.01	0.01	0.01	0.01	0.00	0.01	
18-Dec	0.00	0.01	0.02	0.01	0.02	0.02	0.01	
19-Dec	0.03	0.02	0.01	0.04	0.03	0.00	0.02	
20-Dec	0.01	0.01	0.00	0.09	0.00	0.01	0.02	0.01
21-Dec	0.01	0.00	0.02	0.03	0.04	0.02	0.02	
22-Dec	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01
23-Dec	0.01	0.00	0.01	0.01	0.02	0.01	0.01	
24-Dec	0.02	0.01	0.01	0.03	0.04	0.01	0.02	
25-Dec	0.01	0.00	0.01	0.02	0.00	0.01	0.01	
26-Dec	0.01	0.01	0.02	0.03	0.03	0.02	0.02	
27-Dec	0.00	0.01	0.02	0.01	0.01	0.02	0.01	
28-Dec	0.02	0.01	0.00	0.02	0.00	0.00	0.01	
29-Dec	0.03	0.00	0.00	0.02	0.03	0.02	0.02	
30-Dec	0.01	0.02	0.02	0.03	0.02	0.02	0.02	
31-Dec	0.02	0.01	0.01	0.03	0.03	0.03	0.02	
Average	0.02	0.01	0.02	0.02	0.02	0.02	0.02	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.05	0.03	0.10	0.12	0.21	0.15		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* December 2011

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 19.19	X 0.01	= 0.00
0.00	X 19.19	X 0.01	= 0.00
0.00	X 19.19	X 0.01	= 0.00
777.67	X 19.19	X 0.01	= 149.23
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 149.23

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	149.23
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

_____
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

_____
Date

City of Reading 3-C Watershed *for the Month* December 2011

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

CITY OF READING WASTEWATER TREATMENT PLANT

December 2011 Biosolids Report

Solids Processing:

	Total
Sludge Pumped from Primary Settling Tanks (gallons):	2,942,186
Secondary Sludge Pumped to Mix Tank (gallons):	4,794,000
Supernated from Secondary Digesters (gallons):	0

Gravity Belt Thickeners:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	4,561,444	3,451,356	403,907	8,416,707
Thickened Sludge (gallons):	1,035,696	749,103	242,301	2,027,100
Polymer (pounds):	1058.91	683.41	37.55	1779.87
Solids (dry tons):	215.36	111.54	64.28	391.19
Polymer dosage (pounds/dry ton):	4.92	6.13	0.58	4.55
% Reduction:	77.29%	78.30%	40.01%	75.92%
GBT Solids in Filtrate (dry tons):	5.40	18.81	1.99	26.20
GBT 1 Hours of Operation:	169.00	135.50	8.00	312.50
GBT 2 Hours of Operation:	155.50	144.00	16.00	315.50
Total GBT Hours of Operation:	324.50	279.50	24.00	628.00
Dry tons/hour:	0.66	0.40	2.68	0.62

Belt Filter Presses:

	10 - 6	6 - 2	2 - 10	Total
Feed Sludge (gallons):	1,065,546	820,502	132,622	2,018,670
Polymer (pounds):	1246.66	1051.40	180.24	2478.30
Solids (dry tons):	94.35	73.72	11.39	179.46
Polymer dosage (pounds/dry ton):	13.21	14.26	15.82	13.81
% Solids Recovery:	90.97%	94.15%	94.37%	93.16%
Solids in Filtrate (dry tons):	5.59	4.60	0.65	10.85
BFP 1 Hours of Operation:	122.50	83.00	12.00	217.50
BFP 2 Hours of Operation:	159.00	108.50	16.00	283.50
BFP 3 Hours of Operation:	172.00	130.50	16.00	318.50
BFP 4 Hours of Operation:	155.50	123.50	16.00	295.00
Total BFP Hours of Operation:	609.00	445.50	60.00	1114.50
Dry tons/hour:	0.15	0.17	0.19	0.16

Total Solids in Filtrate (dry tons):	37.05
% Solids (Method 2540 G):	19.19%
Total Wet Tons Removed:	777.67
Dry Tons Removed:	149.23
Hours of Operation:	353
Fritz Island Scum Disposed (tons):	0.00
Fritz Island Grit Disposed (tons):	6.66
6th & Canal Grit Disposed (tons):	20.50
Mix Tank Cleaning/Snail Shells Disposed (tons):	0.00
Sanitary Sewer Excavation Soil (tons):	0.00

December 2011 Biosolids Report

Date	Volatile Solids Reducton PST (VS%)	Sec Dig (VS%)	VSR (%)	% Solids Feed	Cake (I-3750-85)	Filtrate	Thickened	GBT Filtrate	Polymer (lbs)	BFP Feed (gal)	Solids (dry tons)	Polymer Dose lb/dry ton	Wet Tons	6th St.	Grit	Snail Shells	Scum	Supernated (gpd)	GBT Feed (gal)	Thickened (gal)	GBT Poly (lbs)	Date
Thu 1				1.00%	17.66%	0.14%	2.76%	0.14%	135.18	132,881	5.54	24.40	33.78					0	376,328	62,099	45.06	Thu 1
Fri 2				2.49%	20.96%	0.11%	3.65%	0.11%	127.67	106,799	11.09	11.51	33.25					0	398,783	53,500	52.57	Fri 2
Sat 3				2.86%	19.28%	0.14%	2.23%	0.14%	37.55	34,901	4.16	9.02						0	241,028	69,301	45.06	Sat 3
Sun 4				1.54%	15.73%	0.21%	3.25%	0.21%	67.59	41,460	2.66	25.39						0	173,656	54,700	30.04	Sun 4
Mon 5				2.22%	18.69%	0.14%	2.42%	0.14%	120.16	84,400	7.81	15.38	68.02					0	270,734	65,000	52.57	Mon 5
Tue 6				2.00%	19.42%	0.13%	2.25%	0.13%	90.12	74,160	6.18	14.57	13.74		6.66			0	238,345	59,300	67.59	Tue 6
Wed 7	85.71%	50.00%	83.33%	2.67%	20.17%	0.14%	3.09%	0.14%	105.14	82,380	9.17	11.46	35.37					0	295,573	93,800	75.10	Wed 7
Thu 8				2.18%	19.82%	0.14%	3.11%	0.14%	75.10	70,660	6.42	11.69	50.79					0	269,036	40,100	75.10	Thu 8
Fri 9				2.39%	19.44%	0.12%	3.07%	0.12%	75.10	68,880	6.86	10.94	14.14					0	259,409	62,400	52.57	Fri 9
Sat 10				3.59%	20.31%	0.14%	3.39%	0.14%	45.06	32,460	4.86	9.27	17.75					0	181,647	53,000	37.55	Sat 10
Sun 11				3.31%	19.38%	0.09%	2.82%	0.09%	45.06	24,199	3.34	13.49						0	170,616	59,399	22.53	Sun 11
Mon 12				2.13%	19.71%	0.10%	3.35%	0.10%	127.67	49,601	4.41	28.98	71.07					0	299,203	61,901	30.04	Mon 12
Tue 13				1.98%	16.73%	0.17%	3.63%	0.17%	112.65	90,380	7.46	15.10	35.17					0	327,716	61,499	60.08	Tue 13
Wed 14	86.25%	66.67%	68.11%	1.59%	19.57%	0.13%	2.88%	0.13%	90.12	77,540	5.14	17.53	17.41					0	294,407	71,401	45.06	Wed 14
Thu 15				3.22%	18.86%	0.11%	4.42%	0.11%	90.12	46,060	6.18	14.57	16.00					0	274,901	41,499	22.53	Thu 15
Fri 16				3.54%	20.48%	0.14%	5.96%	0.14%	60.08	21,599	3.19	18.84	17.31					0	323,945	66,101	37.55	Fri 16
Sat 17				3.18%	19.72%	0.13%	5.84%	0.13%	45.06	41,520	5.51	8.18						0	211,014	48,300	60.08	Sat 17
Sun 18				3.29%	19.86%	0.10%	6.47%	0.10%	22.53	27,720	3.80	5.92						0	191,573	57,900	67.59	Sun 18
Mon 19				2.08%	19.02%	0.13%	6.48%	0.13%	45.06	44,100	3.83	11.78	64.45					0	299,016	74,200	97.63	Mon 19
Tue 20				1.99%	20.44%	0.14%	6.35%	0.14%	67.59	74,900	6.22	10.87	17.58	14.49				0	280,709	49,100	82.61	Tue 20
Wed 21	83.78%	66.67%	61.27%	1.89%	19.18%	0.12%	7.33%	0.12%	75.10	74,920	5.90	12.72	33.95					0	248,167	43,400	67.59	Wed 21
Thu 22				2.15%	19.22%	0.08%	6.48%	0.08%	45.06	38,381	3.44	13.09	17.67	6.01				0	304,825	63,600	82.61	Thu 22
Fri 23				1.74%	18.15%	0.11%	6.00%	0.11%	90.12	85,800	6.23	14.48	18.53					0	281,901	59,300	75.10	Fri 23
Sat 24				1.57%	19.42%	0.13%	6.48%	0.13%	75.10	92,719	6.07	12.37	16.64					0	290,280	55,300	67.59	Sat 24
Sun 25				2.43%	19.14%	0.13%	5.99%	0.13%	52.57	57,331	5.81	9.05						0	173,131	48,200	60.08	Sun 25
Mon 26				1.79%	17.06%	0.14%	2.91%	0.14%	82.61	92,119	6.88	12.01	50.81					0	410,554	76,000	82.61	Mon 26
Tue 27				2.32%	19.01%	0.10%	6.12%	0.10%	97.63	77,700	7.52	12.99	34.64					0	305,363	96,300	75.10	Tue 27
Wed 28	79.67%	60.87%	60.30%	1.54%	20.52%	0.16%	6.38%	0.16%	75.10	80,118	5.15	14.60	32.55					0	243,222	102,200	52.57	Wed 28
Thu 29				2.14%	19.99%	0.11%	6.67%	0.11%	127.67	110,570	9.87	12.94	32.65					0	267,288	114,900	45.06	Thu 29
Fri 30				2.21%	18.75%	0.11%	6.19%	0.11%	105.14	51,655	4.76	22.09	34.40					0	281,595	107,500	60.08	Fri 30
Sat 31									0.00	0	0.00							0	0	0	0.00	Sat 31
Total:					575.69%				2,410.71	1,987,913	175.46	13.74	777.67	20.50	6.66	0.00	0.00	0	8,183,965	1,971,200	1727.30	
Ave:	83.85%	61.05%	68.25%	2.30%	19.19%	0.13%	4.60%	0.13%	77.76	64,126	5.66	14.17	32.40	10.25	6.66	0.00	0.00	0	263,999	63,587	55.72	
Min:	79.67%	50.00%	60.30%	1.00%	15.73%	0.08%	2.23%	0.08%	0.00	0	0.00	5.92	13.74									
Max:	86.25%	66.67%	83.33%	3.59%	20.96%	0.21%	7.33%	0.21%	135.18	132,881	11.09	28.98	71.07									

Total Dry Tons, Cake =	777.67	x	19.19	x	0.01 =	149.23 dry tons

December 2011 Solids Operations Report

10 PM - 6 AM

Date	BFP % Solids			Belt Filter Press								GBT % Solids		Gravity Belt Thickener								
	Feed	Cake	Filtrate (I-3750-85)	Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	Thickened	Filtrate (I-3750-85)	Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Thu 1	1.00%	17.66%	0.14%	62,401	82.61	2.60	31.75	86.69%	32.00	0.08	0.36	2.76%	0.14%	186,201	37,699	79.75%	22.53	4.34	5.19	8.00	0.54	0.22
Fri 2	2.49%	20.96%	0.11%	64,679	82.61	6.72	12.30	96.09%	32.00	0.21	0.30	3.65%	0.11%	209,724	32,101	84.69%	22.53	4.89	4.61	11.00	0.44	0.15
Sat 3	2.86%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 4	1.54%		0.21%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 5	2.22%	18.69%	0.14%	32,179	45.06	2.98	15.13	94.40%	12.00	0.25	0.19	2.42%	0.14%	114,352	38,899	65.98%	30.04	3.93	7.65	8.00	0.49	0.23
Tue 6	2.00%	19.42%	0.13%	26,720	37.55	2.23	16.85	94.13%	12.00	0.19	0.14	2.25%	0.13%	42,262	28,900	31.62%	30.04	2.71	11.08	8.00	0.34	0.16
Wed 7	2.67%	20.17%	0.14%	29,019	30.04	3.23	9.30	95.42%	10.50	0.31	0.17	3.09%	0.14%	106,170	40,600	61.76%	30.04	5.23	5.74	8.00	0.65	0.24
Thu 8	2.18%	19.82%	0.14%	27,620	30.04	2.51	11.96	94.24%	10.50	0.24	0.16	3.11%	0.14%	110,222	36,999	66.43%	37.55	4.80	7.83	8.00	0.60	0.22
Fri 9	2.39%	19.44%	0.12%	26,719	30.04	2.66	11.28	95.57%	8.00	0.33	0.13	3.07%	0.12%	124,452	38,899	68.74%	30.04	4.98	6.03	8.00	0.82	0.19
Sat 10	3.59%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 11	3.31%		0.09%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 12	2.13%	19.71%	0.10%	22,001	60.08	1.95	30.74	95.79%	20.00	0.10	0.09	3.35%	0.10%	171,904	39,201	77.20%	15.02	5.48	2.74	11.50	0.48	0.16
Tue 13	1.98%	16.73%	0.17%	47,179	60.08	3.90	15.42	92.35%	25.50	0.15	0.33	3.63%	0.17%	211,837	41,600	80.36%	37.55	6.30	5.96	16.00	0.39	0.29
Wed 14	1.59%	19.57%	0.13%	29,519	37.55	1.96	19.19	92.44%	18.00	0.12	0.16	2.88%	0.13%	147,278	36,001	75.56%	15.02	4.32	3.47	8.00	0.54	0.20
Thu 15	3.22%	18.86%	0.11%	25,319	37.55	3.40	11.05	97.15%	10.00	0.34	0.12	4.42%	0.11%	151,457	17,299	88.58%	0.00	3.19	0.00	4.00	0.80	0.08
Fri 16	3.54%	20.46%	0.14%	21,599	45.06	3.19	14.13	96.71%	25.00	0.13	0.13	5.96%	0.14%	230,258	48,601	78.89%	30.04	12.08	2.49	16.00	0.75	0.28
Sat 17	3.18%	19.72%	0.13%	41,520	45.06	5.51	8.18	96.55%	21.00	0.26	0.23	5.84%	0.13%	211,014	48,300	77.11%	60.08	11.76	5.11	14.00	0.84	0.26
Sun 18	3.29%	19.86%	0.10%	27,720	22.53	3.80	5.92	97.45%	25.50	0.15	0.12	6.47%	0.10%	191,573	57,900	69.78%	87.59	15.62	4.33	16.00	0.98	0.24
Mon 19	2.08%	19.02%	0.13%	29,400	30.04	2.55	11.78	94.40%	24.00	0.11	0.16	6.48%	0.13%	200,683	52,700	73.74%	67.59	14.24	4.75	16.00	0.89	0.29
Tue 20	1.99%	20.44%	0.14%	49,300	45.06	4.09	11.01	93.61%	29.00	0.14	0.29	6.35%	0.14%	208,487	35,599	82.93%	52.57	9.43	5.58	18.00	0.59	0.21
Wed 21	1.89%	19.16%	0.12%	56,820	52.57	4.48	11.74	94.24%	32.00	0.14	0.28	7.33%	0.12%	178,945	30,800	82.79%	45.06	9.41	4.79	16.00	0.59	0.15
Thu 22	2.15%	19.22%	0.08%	38,381	45.06	3.44	13.09	96.68%	32.00	0.11	0.13	6.48%	0.08%	232,039	44,799	80.69%	52.57	12.11	4.34	16.00	0.76	0.15
Fri 23	1.74%	18.15%	0.11%	60,099	60.08	4.36	13.78	94.25%	32.00	0.14	0.28	8.00%	0.11%	221,627	33,300	84.97%	52.57	8.33	6.31	16.00	0.52	0.15
Sat 24	1.57%	19.42%	0.13%	61,520	52.57	4.03	13.05	92.34%	32.00	0.13	0.33	6.48%	0.13%	217,399	31,300	85.60%	52.57	8.46	6.22	16.00	0.53	0.17
Sun 25	2.43%	19.14%	0.13%	57,331	52.57	5.81	9.05	95.30%	32.00	0.18	0.31	5.99%	0.13%	173,131	48,200	72.16%	60.08	12.04	4.99	18.00	0.75	0.26
Mon 26	1.79%	17.06%	0.14%	41,080	37.55	3.07	12.25	92.94%	32.00	0.10	0.24	2.91%	0.14%	226,868	37,400	83.51%	52.57	4.54	11.58	16.00	0.28	0.22
Tue 27	2.32%	19.01%	0.10%	46,701	45.06	4.52	9.97	96.20%	32.00	0.14	0.19	6.12%	0.10%	205,768	47,500	76.92%	60.08	12.12	4.96	16.00	0.76	0.20
Wed 28	1.54%	20.52%	0.16%	51,721	45.06	3.32	13.57	90.31%	24.00	0.14	0.35	6.38%	0.16%	156,500	39,700	74.63%	45.06	10.56	4.27	12.00	0.88	0.26
Thu 29	2.14%	19.99%	0.11%	49,699	75.10	4.44	16.93	95.38%	24.00	0.18	0.23	6.67%	0.11%	168,064	45,600	72.87%	45.06	12.66	3.55	12.00	1.06	0.21
Fri 30	2.21%	18.75%	0.11%	39,300	60.08	3.62	18.59	95.58%	24.00	0.15	0.18	6.19%	0.11%	163,229	45,799	71.94%	45.06	11.62	3.81	12.00	0.99	0.21
Sat 31	3.12%		0.10%	0	0.00	0.00		0.00%	0.00		0.00			0	0		0.00			0.00		
Total =				1,065,546	1246.66	94.35	13.21	90.97%	609.00	4.51	5.59			4,561,444	1,035,696	77.29%	1058.91	215.36	4.92	324.50	17.06	5.40
Average =	2.33%	19.27%	0.13%	34,372	40.21	3.04	14.08	90.97%	19.65	0.17	0.18	4.86%	0.13%	147,143	33,410	74.97%	34.16	6.28	5.28	10.47	0.66	0.21
Minimum =	1.00%	16.73%	0.08%	0	0.00	0.00	5.92	0.00%	0.00	0.08	0.00	2.25%	0.08%	0	0	31.62%	0.00	2.71	0.00	0.00	0.28	0.08
Maximum =	3.59%	20.96%	0.21%	64,679	82.61	6.72	31.75	97.45%	32.00	0.34	0.36	7.33%	0.17%	232,039	57,900	88.58%	87.59	15.62	11.58	16.00	1.06	0.29

(%feed)(%cake - %filtrate)

December 2011 Solids Operations Report

10 PM - 6 AM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd Sludge	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Thu 1	8	2.65%	19.10%	0.14%	5.35%	1.65%	21.20%	0.13%	5.50%	0	0	29100	33301	4	7	186,201	0	37,699	0	3	8.00	8.00	8.00	8.00	8.00	0.00
Fri 2	8	2.90%	18.15%	0.16%	6.18%	2.85%	17.85%	0.15%	6.01%	0	0	29880	34799	4	7	175,399	34,325	32,101	1	2	8.00	8.00	8.00	8.00	8.00	3.00
Sat 3																										
Sun 4																										
Mon 5	4	2.75%	20.46%	0.20%	2.90%					0	2500	14880	14799	3	3	74,499	39,853	38,899	2	2	0.00	4.00	4.00	4.00	4.00	4.00
Tue 6	4	2.84%	19.75%	0.10%	2.50%					0	0	13920	12800	2	3	7,300	34,962	28,900	2	2	0.00	4.00	4.00	4.00	4.00	4.00
Wed 7	4	2.25%	17.05%	0.30%	1.95%					0	0	13920	15099	1	3	66,300	39,870	40,600	2	2	0.00	3.50	3.50	3.50	4.00	4.00
Thu 8	4	2.60%	20.62%	0.10%	3.45%					0	0	15120	12500	1	3	65,001	45,221	36,999	2	3	0.00	3.50	3.50	3.50	4.00	4.00
Fri 9	4	3.12%	20.40%	0.10%	2.10%					0	0	13920	12799	1	3	72,800	51,652	38,899	2	2	0.00	0.00	4.00	4.00	4.00	4.00
Sat 10																										
Sun 11																										
Mon 12	8	2.70%	18.94%	0.13%	4.30%	2.60%	19.31%	0.15%	6.00%	0	0	10800	11201	5	3	164,700	7,204	39,201	0	2	2.00	2.00	8.00	8.00	8.00	3.50
Tue 13	8	2.78%	19.73%	0.14%	4.12%	190.00%	20.02%	0.14%	5.90%	0	0	16380	30799	3	5	141,401	70,436	41,600	2	3	1.50	8.00	8.00	8.00	8.00	8.00
Wed 14	4	2.54%	19.20%	0.14%	2.60%					0	0	15120	14399	1	4	102,100	45,178	36,001	1	1	4.00	4.00	4.00	4.00	4.00	4.00
Thu 15	4	2.35%	18.75%	0.30%	2.94%					0	4800	11520	8999	2	3	75,300	76,157	17,299	0	0	0.00	2.50	4.00	3.50	0.00	4.00
Fri 16	8			0.14%	4.75%	3.40%	20.73%	0.16%	5.10%	0	12900	2700	5999	5	1	129,400	100,858	48,601	4	0	1.00	8.00	8.00	8.00	8.00	8.00
Sat 17	8	3.10%	20.13%	0.13%	4.25%	3.00%	19.01%	0.14%	5.30%	0	23100	18420	0	6	0	112,400	98,614	48,300	4	4	0.00	7.00	7.00	7.00	7.00	7.00
Sun 18	8	2.38%	19.61%	0.12%	5.25%	3.22%	20.31%	0.14%	4.95%	0	0	27720	0	3	0	105,700	85,873	57,900	4	5	8.00	8.00	8.00	1.50	8.00	8.00
Mon 19	8	2.93%	20.10%	0.13%	4.40%	2.56%	19.18%	0.12%	5.10%	0	0	29400	0	4	0	113,300	87,383	52,700	4	5	8.00	8.00	8.00	0.00	8.00	8.00
Tue 20	8	3.40%	20.80%	0.13%	5.10%	1.40%	20.80%	0.15%	5.85%	0	19000	30300	0	6	0	100,400	108,087	35,599	3	4	8.00	6.50	8.00	6.50	8.00	8.00
Wed 21	8	2.40%	18.92%	0.13%	6.00%	2.55%	19.09%	0.13%	8.00%	0	23700	33120	0	7	0	99,200	79,745	30,800	3	3	8.00	8.00	8.00	8.00	8.00	8.00
Thu 22	8			0.13%	5.10%	2.45%	18.74%	0.14%	4.98%	0	0	14580	23801	0	6	142,700	89,339	44,799	3	4	8.00	8.00	8.00	8.00	8.00	8.00
Fri 23	8	2.60%	18.28%	0.13%	4.85%	2.40%	17.98%	0.15%	6.40%	0	0	30300	29799	3	5	117,700	103,927	33,300	3	4	8.00	8.00	8.00	8.00	8.00	8.00
Sat 24	8	1.95%	19.03%	0.14%	4.55%	1.35%	18.59%	0.17%	4.90%	0	0	31320	30200	4	3	106,800	110,599	31,300	3	4	8.00	8.00	8.00	8.00	8.00	8.00
Sun 25	8	2.80%	18.60%	0.13%	5.10%	2.45%	19.38%	0.13%	4.95%	0	0	29430	27901	4	3	74,700	98,431	48,200	4	4	8.00	8.00	8.00	8.00	8.00	8.00
Mon 26	8	2.50%	20.20%	0.12%	4.80%	2.15%	18.60%	0.13%	4.85%	0	0	20280	20800	0	5	108,800	118,068	37,400	4	3	8.00	8.00	8.00	8.00	8.00	8.00
Tue 27	8	2.35%	18.82%	0.13%	5.00%	2.25%	18.81%	0.12%	5.10%	0	0	20700	26001	0	6	96,900	108,868	47,500	4	4	8.00	8.00	8.00	8.00	8.00	8.00
Wed 28	6	2.05%	21.35%	0.17%	5.30%	1.15%	18.99%	0.13%	5.25%	0	0	25320	26401	3	3	56,500	100,000	39,700	3	3	6.00	6.00	6.00	6.00	6.00	6.00
Thu 29	6	2.35%	18.74%	0.14%	5.55%	2.15%	20.88%	0.14%	5.93%	0	0	25800	23899	5	5	89,200	98,864	45,600	3	3	6.00	6.00	6.00	6.00	6.00	6.00
Fri 30	6	1.75%	19.06%	0.12%	5.35%	2.45%	18.81%	0.12%	4.80%	0	0	18900	20400	4	4	78,999	84,230	45,799	3	3	6.00	6.00	6.00	6.00	6.00	6.00
Sat 31																										
	174	2.59%	19.41%	0.15%	4.37%	12.21%	19.38%	0.14%	5.41%	0	86000	542850	436696	81	85	2,643,700	1,917,744	1,035,696	66	75	122.50	159.00	172.00	155.50	169.00	155.50
	Min:	1.75%	17.05%	0.10%	1.95%	1.15%	17.85%	0.12%	4.80%																	
	Max:	3.40%	21.35%	0.30%	6.18%	190.00%	21.20%	0.17%	8.40%	0	23700	33120	34799	7	7	186,201	118,068	57,900	4	5	8.00	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

December 2011 Solids Operations Report

6 AM - 2 PM

Date	% Solids (I-3750-85)			Belt Filter Press					Total	Dry tons	Filtrate	GBT % Solids (I-3750-85)		Gravity Belt Thickener				Thickened	Polymer	Total	Dry tons	Filtrate
	Feed	Cake	Filtrate	Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	BFP Hours	per hour	Solids (dry tons)	Thickened	Filtrate	Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Solids (dry tons)	Dosage (lbs/dry ton)	GBT Hours	per hour	Solids (dry tons)
Thu 1	1.00%	17.66%	0.14%	70,480	52.57	2.94	17.89	86.69%	29.00	0.10	0.41	2.78%	0.14%	190,127	24,400	87.17%	22.53	2.81	8.02	13.00	0.22	1.11
Fri 2	2.49%	20.96%	0.11%	42,120	45.06	4.37	10.30	96.09%	16.00	0.27	0.19	3.65%	0.11%	189,059	21,399	88.68%	30.04	3.26	9.22	13.50	0.24	0.87
Sat 3	2.86%	19.28%	0.14%	34,901	37.55	4.16	9.02	95.80%	12.00	0.35	0.20	2.23%	0.14%	241,028	69,301	71.25%	45.06	6.44	6.99	16.00	0.40	1.41
Sun 4	1.54%	15.73%	0.21%	41,460	67.59	2.66	25.39	87.53%	13.00	0.20	0.36	3.25%	0.21%	173,656	54,700	68.50%	30.04	7.41	4.05	14.00	0.53	1.52
Mon 5	2.22%	18.69%	0.14%	52,221	75.10	4.83	15.53	94.40%	19.00	0.25	0.30	2.42%	0.14%	156,362	26,101	83.31%	22.53	2.63	8.55	13.00	0.20	0.91
Tue 6	2.00%	19.42%	0.13%	47,440	52.57	3.96	13.29	94.13%	21.00	0.19	0.26	2.25%	0.13%	196,083	30,400	84.50%	37.55	2.65	13.16	16.00	0.18	1.06
Wed 7	2.67%	20.17%	0.14%	53,361	75.10	5.94	12.64	95.42%	31.00	0.19	0.31	3.09%	0.14%	189,403	53,200	71.91%	45.06	6.85	6.57	16.00	0.43	1.11
Thu 8	2.18%	19.82%	0.14%	43,040	45.06	3.91	11.52	94.24%	28.50	0.14	0.25	3.11%	0.14%	158,814	3,101	98.05%	37.55	0.40	93.37	14.00	0.03	0.93
Fri 9	2.39%	19.44%	0.12%	42,161	45.06	4.20	10.72	95.57%	14.00	0.30	0.21	3.07%	0.12%	134,957	23,501	82.59%	22.53	3.01	7.49	13.00	0.23	0.68
Sat 10	3.59%	20.31%	0.14%	32,460	45.06	4.86	9.27	96.77%	25.50	0.19	0.19	3.39%	0.14%	181,647	53,000	70.82%	37.55	7.49	5.01	13.00	0.58	1.06
Sun 11	3.31%	19.38%	0.09%	24,199	45.06	3.34	13.49	97.73%	14.50	0.23	0.09	2.82%	0.09%	170,616	59,399	65.19%	22.53	6.98	3.23	13.00	0.54	0.64
Mon 12	2.13%	19.71%	0.10%	27,800	67.59	2.45	27.57	95.79%	22.50	0.11	0.12	3.35%	0.10%	127,299	22,700	82.17%	15.02	3.17	4.74	7.00	0.45	0.53
Tue 13	1.98%	16.73%	0.17%	43,201	52.57	3.57	14.74	92.35%	19.00	0.19	0.31	3.63%	0.17%	115,679	19,899	82.83%	22.53	3.01	7.48	12.00	0.25	0.82
Wed 14	1.59%	19.57%	0.13%	48,021	52.57	3.18	16.51	92.44%	19.00	0.17	0.26	2.86%	0.13%	147,129	35,400	75.94%	30.04	4.25	7.07	13.00	0.33	0.80
Thu 15	3.22%	18.86%	0.11%	20,741	52.57	2.78	18.88	97.15%	14.50	0.19	0.10	4.42%	0.11%	123,444	24,200	60.40%	22.53	4.46	5.05	7.00	0.64	0.57
Fri 16	3.54%		0.14%	0	15.02	0.00			3.00	0.00	0.00	5.96%	0.14%	93,687	17,500	81.32%	7.51	4.35	1.73	8.00	0.54	0.55
Sat 17	3.18%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 18	3.29%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 19	2.08%	19.02%	0.13%	14,700	15.02	1.28	11.78	94.40%	12.00	0.11	0.08	6.48%	0.13%	98,333	21,500	78.14%	30.04	5.81	5.17	8.00	0.73	0.53
Tue 20	1.99%	20.44%	0.14%	25,600	22.53	2.12	10.61	93.61%	16.00	0.13	0.15	6.35%	0.14%	72,222	13,501	81.31%	30.04	3.57	8.40	8.00	0.45	0.42
Wed 21	1.89%	19.18%	0.12%	18,100	22.53	1.43	15.79	94.24%	16.00	0.09	0.09	7.33%	0.12%	69,222	12,600	81.80%	22.53	3.85	5.85	8.00	0.48	0.35
Thu 22	2.15%		0.08%	0	0.00	0.00			18.00	0.00	0.00	6.48%	0.08%	72,786	18,801	74.17%	30.04	5.08	5.91	8.00	0.84	0.24
Fri 23	1.74%	18.15%	0.11%	25,701	30.04	1.86	16.11	94.25%	18.00	0.12	0.12	6.00%	0.11%	60,274	26,000	56.88%	22.53	8.51	3.46	8.00	0.81	0.28
Sat 24	1.57%	19.42%	0.13%	31,199	22.53	2.04	11.03	92.34%	16.00	0.13	0.17	8.48%	0.13%	72,881	24,000	67.07%	15.02	6.49	2.32	8.00	0.81	0.40
Sun 25	2.43%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 26	1.79%	17.06%	0.14%	51,039	45.06	3.81	11.83	92.94%	24.50	0.16	0.30	2.91%	0.14%	183,688	36,600	78.99%	30.04	4.68	6.41	14.00	0.33	1.07
Tue 27	2.32%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 28	1.54%		0.16%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 29	2.14%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 30	2.21%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 31	3.12%	18.25%	0.10%	30,757	67.59	4.00	16.89	97.33%	27.50	0.15	0.13	2.64%	0.10%	232,742	55,900	75.98%	52.57	6.15	8.54	16.00	0.38	0.97
Total =				820,502	1051.40	73.72	14.26	94.15%	445.50	3.95	4.60			3,451,356	749,103	78.30%	653.41	111.54	6.13	279.50	10.42	16.61
Average =	2.33%	18.97%	0.13%	26,468	33.92	2.38	14.58	94.15%	14.37	0.16	0.15	4.04%	0.13%	111,334	24,165	77.57%	22.05	4.65	9.91	9.02	0.43	0.78
Minimum =	1.00%	15.73%	0.08%	0	0.00	0.00	9.02	86.69%	0.00	0.00	0.00	2.23%	0.08%	0	0	56.86%	0.00	0.40	1.73	0.00	0.03	0.24
Maximum =	3.59%	20.96%	0.21%	70,480	75.10	5.94	27.57	97.73%	31.00	0.35	0.41	7.33%	0.21%	241,028	69,301	98.05%	52.57	7.49	93.37	16.00	0.61	1.52

$$\text{\% Solids Recovery} = \frac{(\%\text{cake})(\%\text{feed} - \%\text{filtrate})}{(\%\text{feed})(\%\text{cake} - \%\text{filtrate})}$$

December 2011 Solids Operations Report

6 AM - 2 PM

Date	Hours of Operation	Mix Tank Level	% Solids								BFP Sludge Processed				BFP Polymer				Thickn Sludge	GBT Polymer		Hours of Operation					
			1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2		7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Thu 1	8	9.25	0.45%	15.05%	0.15%	1.85%	0.25%	13.35%	0.15%	1.85%	0	0	29,280	41,200	2	5	130,299	59,828	24,400	2	1	7.00	7.00	7.50	7.50	7.00	6.00
Fri 2	8	8.59	2.53%	18.20%	0.25%	2.50%	2.70%	20.80%	0.10%	2.56%	0	0	22,320	19,800	1	5	79,101	109,958	21,399	3	1	7.00	7.00	1.00	1.00	5.50	8.00
Sat 3	8	9.52	2.95%	19.52%	0.20%	2.90%	2.55%	18.85%	0.13%	3.40%	0	0	19,200	15,701	1	4	157,900	83,128	69,301	3	3	0.00	0.00	6.00	6.00	8.00	6.00
Sun 4	8	8.38	2.86%	17.00%	0.30%	2.55%	0.58%	16.45%	0.18%	3.00%	0	0	21,960	19,500	4	5	110,400	63,256	54,700	2	2	6.50	6.50	0.00	0.00	7.00	7.00
Mon 5	8	7.84	1.75%	17.10%	0.20%	2.00%	1.50%	16.40%	0.20%	1.89%	0	10,000	22,320	19,901	4	6	100,401	55,981	26,101	2	1	0.00	5.00	7.00	7.00	6.00	7.00
Tue 6	8	7.93	2.00%	18.70%	0.16%	2.35%	1.80%	17.00%	0.20%	2.15%	0	0	17,640	29,800	1	6	112,100	83,983	30,400	2	3	0.00	7.00	7.00	7.00	8.00	8.00
Wed 7	8	7.47	3.10%	16.86%	0.29%	2.95%	3.30%	22.00%	0.13%	2.26%	0	0	27,360	28,001	3	7	114,299	75,104	53,200	3	3	7.00	8.00	8.00	8.00	8.00	8.00
Thu 8	8	7.08	1.60%	16.95%	0.15%	2.85%	2.30%	20.20%	0.15%	3.35%	0	0	22,440	20,600	0	6	79,400	79,414	3,101	2	3	7.00	7.50	7.00	7.00	7.00	7.00
Fri 9	8	7.01	2.00%	19.75%	0.10%	2.45%	2.98%	17.35%	0.10%	3.30%	0	0	24,360	17,801	1	5	67,500	67,457	23,501	2	1	0.00	0.00	7.00	7.00	6.00	7.00
Sat 10	8	8.86	3.10%	20.22%	0.13%	2.60%	3.35%	19.25%	0.12%	3.35%	0	0	12,980	19,500	1	5	87,500	94,147	53,000	3	2	5.00	6.50	7.00	7.00	5.00	8.00
Sun 11	8	9.01	3.38%	18.72%	0.20%	2.55%	3.64%	20.40%	0.05%	3.20%	0	0	17,400	6,799	3	3	120,500	50,116	59,399	2	1	0.00	0.00	7.00	7.50	8.00	5.00
Mon 12	8	8.74	2.40%	18.50%	0.20%	3.31%	1.00%	19.45%	0.26%	3.15%	0	0	24,900	2,700	2	7	127,299	0	22,700	0	2	4.00	4.50	7.00	7.00	7.00	0.00
Tue 13	8	7.74	3.00%	14.15%	0.26%	2.20%	0.85%	10.45%	0.26%	3.10%	0	10,100	19,800	13,301	2	5	35,100	80,779	19,899	2	1	0.00	7.00	7.00	5.00	5.00	7.00
Wed 14	8	8.21	1.98%	20.75%	0.20%	2.54%	2.10%	17.10%	0.25%	2.15%	0	0	27,120	20,901	1	6	64,100	83,029	35,400	3	1	2.50	2.50	7.00	7.00	5.00	8.00
Thu 15	7	8.98	2.45%	17.90%	0.14%	2.75%					0	5,100	8,640	7,001	4	3	5,800	117,844	24,200	3	0	0.00	4.00	5.00	5.50	0.00	7.00
Fri 16	4	8.40			0.15%	8.51%					0	0	0	0	2	0	56,300	37,387	17,500	1	0	0.00	1.00	1.00	1.00	4.00	4.00
Sat 17																											
Sun 18																											
Mon 19	4	8.86	1.92%	18.46%	0.15%	5.05%					0	0	14,700	0	2	0	49,200	49,133	21,500	2	2	4.00	4.00	4.00	0.00	4.00	4.00
Tue 20	4	7.96	1.98%	17.92%	0.15%	6.28%					0	10,900	14,700	0	3	0	38,500	33,722	13,501	2	2	4.00	4.00	4.00	4.00	4.00	4.00
Wed 21	4	9.06									0	7,000	11,100	0	3	0	68,300	922	12,600	0	3	4.00	4.00	4.00	4.00	4.00	4.00
Thu 22	4	8.03	0.00%		0.16%	6.55%					0	0	0	0	0	0	35,100	37,686	18,801	2	2	4.00	4.00	4.00	4.00	4.00	4.00
Fri 23	4	7.65	1.05%		0.15%	4.85%					0	0	12,300	13,401	2	2	23,600	36,674	26,000	2	1	4.00	4.00	4.00	4.00	4.00	4.00
Sat 24	4	8.28	1.45%	17.54%	0.17%	5.95%					0	0	14,700	16,499	1	2	31,100	41,781	24,000	1	1	4.00	4.00	4.00	4.00	4.00	4.00
Sun 25																											
Mon 26	8	9.11	0.78%	14.70%	0.15%	2.25%	2.13%	17.85%	0.10%	3.12%	0	0	34,140	16,899	0	6	89,200	94,486	38,600	2	2	7.50	5.00	7.00	5.00	7.00	7.00
Tue 27																											
Wed 28																											
Thu 29																											
Fri 30																											
Sat 31	8	8.90	2.55%	20.80%	0.49%	2.40%	3.10%	14.50%	0.06%	2.30%	0	11,000	4,557	15,200	4	5	134,999	97,743	55,900	3	4	5.50	8.00	8.00	8.00	6.00	8.00
	163		2.06%	17.93%	0.20%	3.40%	2.13%	17.58%	0.15%	2.76%	0	54,100	423,897	342,505	47	93	1,917,998	1,533,358	749,103	49	42	83.00	108.50	130.50	123.50	135.50	144.00
	Min:	7.01	0.00%	14.15%	0.10%	1.85%	0.25%	10.45%	0.05%	1.85%																	
	Max:	9.52	3.38%	20.75%	0.49%	6.55%	3.64%	22.00%	0.26%	3.40%	0	11,000	34,140	41,200	4	7	157,900	117,644	69,301	3	4	7.50	8.00	8.00	8.00	8.00	8.00

Numbers in Red Font are Lab Data

December 2011 Solids Operations Report

2 PM - 10 PM

Date	% Solids (I-3750-85) Feed	Cake	Filtrate	Belt Filter Press Feed (gal)	Polymer (lbs)	Solids (dry tons)	Poly Dosage (lbs/dry ton)	% Solids Recovery	Total BFP Hours	Dry tons per hour	Filtrate Solids (dry tons)	GBT % Solids (I-3750-85) Thickened	Filtrate	Gravity Belt Thickener Feed (gal)	Thicknd (gal)	% Reduc.	Polymer (lbs)	Thickened Solids (dry tons)	Polymer Dosage (lbs/dry ton)	Total GBT Hours	Dry tons per hour	Filtrate Solids (dry tons)
Thu 1	1.00%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 2	2.49%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 3	2.86%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 4	1.54%		0.21%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 5	2.22%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 6	2.00%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 7	2.67%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 8	2.18%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 9	2.39%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 10	3.59%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 11	3.31%		0.09%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 12	2.13%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 13	1.98%		0.17%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 14	1.59%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 15	3.22%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 16	3.54%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 17	3.18%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 18	3.29%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 19	2.08%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 20	1.99%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Wed 21	1.89%		0.12%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Thu 22	2.15%		0.08%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Fri 23	1.74%		0.11%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sat 24	1.57%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Sun 25	2.43%		0.13%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Mon 26	1.79%		0.14%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Tue 27	2.32%	19.01%	0.10%	30,999	52.57	3.00	17.53	96.20%	16.00	0.19	0.13	6.12%	0.10%	99,595	48,800	51.00%	15.02	12.45	1.21	4.00	3.11	0.42
Wed 28	1.54%	20.52%	0.16%	28,397	30.04	1.82	16.47	90.31%	12.00	0.15	0.19	6.38%	0.16%	86,722	62,500	27.93%	7.51	16.63	0.45	4.00	4.16	0.58
Thu 29	2.14%	19.99%	0.11%	60,871	52.57	5.43	9.68	95.38%	16.00	0.34	0.28	6.67%	0.11%	99,224	69,300	30.16%	0.00	19.28	0.00	8.00	2.41	0.46
Fri 30	2.21%	18.75%	0.11%	12,355	45.06	1.14	39.57	95.58%	16.00	0.07	0.06	6.19%	0.11%	118,366	61,701	47.87%	15.02	15.93	0.94	6.00	1.99	0.54
Sat 31	3.12%		0.10%	0	0.00	0.00			0.00		0.00			0	0		0.00			0.00		
Total =				132,622	180.24	11.39	15.82	94.37%	60.00	0.75	0.65			403,907	242,301	40.01%	37.55	64.28	0.58	24.00	11.67	1.99
Average =	2.33%	19.57%	0.13%	4,278	5.81	0.37	20.81	94.37%	1.94	0.19	0.02	6.34%	0.12%	13,029	7,816	39.24%	1.21	18.07	0.85	0.77	2.92	0.50
Minimum =	1.00%	18.75%	0.08%	0	0.00	0.00	9.68	90.31%	0.00	0.07	0.00	6.12%	0.10%	0	0	27.93%	0.00	12.45	0.00	0.00	1.99	0.42
Maximum =	3.59%	20.52%	0.21%	60,871	52.57	5.43	39.57	96.20%	16.00	0.34	0.28	6.67%	0.16%	118,366	69,300	51.00%	15.02	19.28	1.21	6.00	4.16	0.58

% Solids Recovery = $\frac{(\%cake)(\%feed - \%filtrate)}{(\%feed)(\%cake - \%filtrate)}$

December 2011 Solids Operations Report

2 PM - 10 PM

Date	Hours of Operation	% Solids								BFP Sludge Processed				BFP Polymer				Thicknd	GBT Polymer		Hours of Operation					
		1st Feed	1st Cake	1st Filtrate	1st GBT	2nd Feed	2nd Cake	2nd Filtrate	2nd GBT	BFP 1	BFP 2	BFP 3	BFP 4	1-2-3	4-5-6	GBT 1	GBT 2	Sludge	7	8	BFP1	BFP2	BFP3	BFP4	GBT1	GBT2
Thu 1																										
Fri 2																										
Sat 3																										
Sun 4																										
Mon 5																										
Tue 6																										
Wed 7																										
Thu 8																										
Fri 9																										
Sat 10																										
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Mon 19																										
Tue 20																										
Wed 21																										
Thu 22																										
Fri 23																										
Sat 24																										
Sun 25																										
Mon 26																										
Tue 27	4									0	0	0	30,999	2	5	6,600	92,995	48,800	2	0	4.00	4.00	4.00	4.00	0.00	4.00
Wed 28	4									0	0	1,597	26,800	0	4	4,200	82,522	62,500	1	0	0.00	4.00	4.00	4.00	0.00	4.00
Thu 29	4									0	0	23,371	37,500	0	7	31,800	67,424	69,300	0	0	4.00	4.00	4.00	4.00	4.00	4.00
Fri 30	4									0	0	10,655	1,700	2	4	37,701	80,665	61,701	1	1	4.00	4.00	4.00	4.00	4.00	4.00
Sat 31																										
	16									0	0	35,623	96,999	4	20	80,301	323,606	242,301	4	1	12.00	16.00	16.00	16.00	8.00	16.00
	Min:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%																	
	Max:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0	0	23,371	37,500	2	7	37,701	92,995	69,300	2	1	4.00	4.00	4.00	4.00	4.00	4.00

Numbers in Red Font are Lab Data

December 2011 Sludge Inventory Report

Date	Pumped from PSTs to Pri. Dig. (gal)	Pumped from PSTs to Mix Tank (gal)	Pumped from PSTs Total (gal)	Thickened Sludge to Pri. Dig. (gal)	Secondary Sludge to Mix Tank (gal)	Dig 1 (in.)	Dig 2 (in.)	Dig 3 (in.)	Mix Tank (in.)	Dig 4 (in.)	Dig 5 (in.)	Pri.Dig.Sldg. Inventory (gal)	Sec.Dig.Sldg. Inventory (gal)	Transfer (calculated) (gal)	Supernated (gal)	Pressed (gal)	Mix Tank Overflow Potential Calculated (gal)
									93			399,200	211,750				
Thu 1	0	94,202	94,202	62,099	279,000	12	23	21	111	42	24	420,400	181,500	40,899	0	132,881	0
Fri 2	0	92,649	92,649	53,500	106,000	14	20	21	103	40	7	398,450	129,250	75,450	0	106,799	0
Sat 3	0	94,774	94,774	69,301	68,000	23	27	28	114	29	9	488,100	104,500	0	0	34,901	0
Sun 4	0	93,217	93,217	54,700	171,000	27	27	20	101	18	30	445,900	132,000	96,900	0	41,460	0
Mon 5	0	93,593	93,593	65,000	166,000	23	28	17	94	9	39	412,600	132,000	98,300	0	84,400	0
Tue 6	0	93,800	93,800	59,300	173,000	31	26	21	95	12	28	442,500	110,000	29,400	0	74,160	0
Wed 7	0	94,247	94,247	93,800	191,000	27	24	22	90	19	36	416,750	151,250	119,550	0	82,380	0
Thu 8	0	85,397	85,397	40,100	166,000	21	33	20	85	39	19	407,500	159,500	49,350	0	70,660	0
Fri 9	0	94,003	94,003	62,400	95,000	28	21	29	84	42	19	416,100	167,750	53,800	0	68,880	0
Sat 10	0	93,814	93,814	53,000	83,000	31	21	20	106	30	40	452,400	192,500	16,700	0	32,460	0
Sun 11	0	95,627	95,627	59,399	218,000	23	32	20	108	47	37	465,450	231,000	46,349	0	24,199	0
Mon 12	0	94,810	94,810	61,901	197,000	23	19	42	105	36	34	483,000	192,500	44,351	0	49,601	0
Tue 13	0	99,057	99,057	61,499	149,000	27	12	18	93	34	41	379,950	206,250	164,549	0	90,380	0
Wed 14	0	100,096	100,096	71,401	131,000	21	20	30	99	43	30	432,850	200,750	18,501	0	77,540	0
Thu 15	0	97,550	97,550	41,499	193,000	45	19	21	108	34	33	492,950	184,250	0	0	46,060	0
Fri 16	0	100,263	100,263	66,101	122,000	23	35	27	101	43	32	476,150	206,250	82,901	0	21,599	0
Sat 17	0	101,076	101,076	48,300	84,000	29	21	39	0	47	27	244,750	203,500	279,700	0	41,520	0
Sun 18	0	98,675	98,675	57,900	158,000	23	33	20	0	46	49	209,000	261,250	93,650	0	27,720	0
Mon 19	0	97,327	97,327	74,200	181,000	33	30	39	106	43	41	534,900	231,000	0	0	44,100	0
Tue 20	0	80,838	80,838	49,100	181,000	39	32	23	96	37	47	488,900	231,000	95,100	0	74,900	0
Wed 21	0	95,946	95,946	43,400	125,000	20	27	36	109	38	42	489,850	220,000	42,450	0	74,920	0
Thu 22	0	94,337	94,337	63,600	174,000	54	23	19	96	44	43	494,400	239,250	59,050	0	38,381	0
Fri 23	0	94,684	94,684	59,300	192,000	18	32	30	92	43	48	440,800	250,250	112,900	0	85,800	0
Sat 24	0	94,429	94,429	55,300	84,000	40	32	20	99	34	33	490,600	184,250	5,500	0	92,719	0
Sun 25	0	98,113	98,113	48,200	246,000	28	25	40	0	41	25	255,750	181,500	283,050	0	57,331	0
Mon 26	0	99,239	99,239	76,000	141,000	51	26	18	109	36	35	522,850	195,250	0	0	92,119	0
Tue 27	0	99,901	99,901	96,300	152,000	18	27	36	0	40	47	222,750	239,250	396,400	0	77,700	0
Wed 28	0	94,706	94,706	102,200	174,000	45	32	20	0	36	38	266,750	203,500	58,200	0	80,118	0
Thu 29	0	85,858	85,858	114,900	156,000	21	31	17	0	47	55	189,750	280,500	191,900	0	110,570	0
Fri 30	0	95,494	95,494	107,500	129,000	41	27	24	0	47	61	253,000	297,000	44,250	0	51,655	0
Sat 31	0	94,464	94,464	0	109,000	19	31	38	107	47	60	498,800	294,250	0	0	0	0
	0	2,942,186	2,942,186	1,971,200	4,794,000									2,599,150	0	1,987,913	0
Ave:	0	94,909	94,909	63,587	154,645							407,545	199,774	83,844	0	64,126	0
Min:	0	80,838	80,838	0	68,000							189,750	104,500	0	0	0	0
Max:	0	101,076	101,076	114,900	279,000							534,900	297,000	396,400	0	132,881	0

Transfer = (change in Primary Sludge Inventory) + (sludge pumped from PSTs to Pri. Dig.) + (Thickened Sludge pumped to Pri. Dig.)

Mix Tank Overflow Potential = (change in Mix Tank level) + gallons from PSTs + secondary sludge (350 gpm) - GBT feed

December 2011 Soluble Sulfides Report

	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	Sludge Processed BFPs	GBTs
1-Dec							132,881	376,328
2-Dec							106,799	398,783
3-Dec							34,901	241,028
4-Dec							41,460	173,656
5-Dec							84,400	270,734
6-Dec							74,160	238,345
7-Dec							82,380	295,573
8-Dec							70,660	269,036
9-Dec							68,880	259,409
10-Dec							32,460	181,647
11-Dec							24,199	170,616
12-Dec							49,601	299,203
13-Dec							90,380	327,716
14-Dec							77,540	294,407
15-Dec							46,060	274,901
16-Dec							21,599	323,945
17-Dec							41,520	211,014
18-Dec							27,720	191,573
19-Dec							44,100	299,016
20-Dec							74,900	280,709
21-Dec							74,920	248,167
22-Dec							38,381	304,825
23-Dec							85,800	281,901
24-Dec							92,719	290,280
25-Dec							57,331	173,131
26-Dec							92,119	410,554
27-Dec							77,700	305,363
28-Dec							80,118	243,222
29-Dec							110,570	267,288
30-Dec							51,655	281,595
31-Dec							0	0
Ave:	N/A	N/A	N/A	N/A	N/A	N/A		
Min:	0.000	0.000	0.000	0.000	0.000	0.000		
Max:	0.000	0.000	0.000	0.000	0.000	0.000		

December 2011 Disposal Site Report

Date	Sludge Conestoga (Tons)	Sludge Rolling Hills (Tons)	Sludge Modern (Tons)	Sludge Pioneer Crossing (Tons)	6th St. (Tons)	Grit (Tons)	Tank Cleanings (Tons)	Scum (Tons)	San Swr Soil (Tons)	Exeter Sludge (Gallons)	Exeter % Solids	Valley Forge Sludge (Gallons)	Valley Forge % Solids	Total Cans Hauled Biosolids
Thu 1				33.78										2
Fri 2				33.25										2
Sat 3														
Sun 4														
Mon 5				68.02										4
Tue 6				13.74		6.66								1
Wed 7				35.37										2
Thu 8				50.79										3
Fri 9				14.14										1
Sat 10				17.75										1
Sun 11														
Mon 12				71.07										4
Tue 13				35.17										2
Wed 14				17.41										1
Thu 15				16.00										1
Fri 16				17.31										1
Sat 17														
Sun 18														
Mon 19				64.45										4
Tue 20				17.58	14.49									1
Wed 21				33.95										2
Thu 22				17.67	6.01									1
Fri 23				18.53										1
Sat 24				16.64										1
Sun 25														
Mon 26				50.81										3
Tue 27				34.64										2
Wed 28				32.55										2
Thu 29				32.65										2
Fri 30				34.40										2
Sat 31														
Total:	0.00	0.00	0.00	777.67	20.50	6.66	0.00	0.00	0.00	0		0		46
Ave:	0.00	0.00	0.00	32.40	10.25	6.66	0.00	0.00	0.00	0		0		
Min:	0.00	0.00	0.00	13.74	6.01	6.66	0.00	0.00	0.00	0		0		
Max:	0.00	0.00	0.00	71.07	14.49	6.66	0.00	0.00	0.00	0		0		

December 2011 Supernating Data

	Digester#4	Gallons Supernated	%Solids	lbs supernated	Digester#5	Gallons Supernated	%Solids	lbs supernated	Total Gallons Supernated	Total lbs Supernated
Thu 1									0	0
Fri 2									0	0
Sat 3									0	0
Sun 4									0	0
Mon 5									0	0
Tue 6									0	0
Wed 7									0	0
Thu 8									0	0
Fri 9									0	0
Sat 10									0	0
Sun 11									0	0
Mon 12									0	0
Tue 13									0	0
Wed 14									0	0
Thu 15									0	0
Fri 16									0	0
Sat 17									0	0
Sun 18									0	0
Mon 19									0	0
Tue 20									0	0
Wed 21									0	0
Thu 22									0	0
Fri 23									0	0
Sat 24									0	0
Sun 25									0	0
Mon 26									0	0
Tue 27									0	0
Wed 28									0	0
Thu 29									0	0
Fri 30									0	0
Sat 31									0	0
TOTAL		0		0		0		0	0	0
AVG.										

December 2011 Laboratory Results

	% Solids Feed	% Solids Cake (I-3750-85)	% Solids Filtrate	% Solids GBT	% Solids GBT Filtrate	Dig4SldgWithdraw (mg/L)	BFP Filtrate (mg/L)	Filtrate P/S (mg/L)	Pri Div Box (mg/L)	PST Effluent (mg/L)	6th St. P/S (mg/L)	P1-4 %TS	P1-4 %VS	Dig 4 %TS	Dig 4 %VS	Dig 5 %TS	Dig 5 %VS	GBT %TS	GBT %VS
1-Dec	1.00%	17.66%	0.14%	2.76%															
2-Dec	2.49%	20.96%	0.11%	3.65%										3.23%		0.59%			
3-Dec	2.86%	19.28%	0.14%	2.23%															
4-Dec	1.54%	15.73%	0.21%	3.25%															
5-Dec	2.22%	18.69%	0.14%	2.42%										0.57%		2.17%			
6-Dec	2.00%	19.42%	0.13%	2.25%														2.25%	83.75%
7-Dec	2.67%	20.17%	0.14%	3.09%								2.63%	85.71%	3.85%	50.00%	4.09%	68.08%		
8-Dec	2.18%	19.82%	0.14%	3.11%															
9-Dec	2.39%	19.44%	0.12%	3.07%										2.79%		3.05%			
10-Dec	3.59%	20.31%	0.14%	3.39%															
11-Dec	3.31%	19.38%	0.09%	2.82%															
12-Dec	2.13%	19.71%	0.10%	3.35%										2.77%		2.63%			
13-Dec	1.98%	16.73%	0.17%	3.63%														3.63%	85.40%
14-Dec	1.59%	19.57%	0.13%	2.88%								1.91%	86.25%	2.84%	66.67%	2.37%	66.02%		
15-Dec	3.22%	18.86%	0.11%	4.42%															
16-Dec	3.54%	20.48%	0.14%	5.96%										0.93%		2.87%			
17-Dec	3.18%	19.72%	0.13%	5.84%															
18-Dec	3.29%	19.86%	0.10%	6.47%															
19-Dec	2.08%	19.02%	0.13%	6.48%										0.50%		1.73%			
20-Dec	1.99%	20.44%	0.14%	6.35%														6.35%	83.33%
21-Dec	1.89%	19.18%	0.12%	7.33%								3.14%	83.78%	2.52%	66.67%	1.93%	68.29%		
22-Dec	2.15%	19.22%	0.08%	6.48%															
23-Dec	1.74%	18.15%	0.11%	6.00%										3.66%		1.79%			
24-Dec	1.57%	19.42%	0.13%	6.48%															
25-Dec	2.43%	19.14%	0.13%	5.99%															
26-Dec	1.79%	17.06%	0.14%	2.91%															
27-Dec	2.32%	19.01%	0.10%	6.12%														6.12%	85.71%
28-Dec	1.54%	20.52%	0.16%	6.38%								3.38%	79.67%	0.36%	60.87%	10.24%	22.17%		
29-Dec	2.14%	19.99%	0.11%	6.67%															
30-Dec	2.21%	18.75%	0.11%	6.19%										2.45%		2.24%			
31-Dec	3.12%	18.25%	0.10%	2.64%															
Avg	2.33%	19.16%	0.13%	4.54%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.77%	83.85%	2.21%	61.05%	2.98%	56.14%	4.59%	84.55%
Min	1.00%	15.73%	0.08%	2.23%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	3.38%	86.25%	3.85%	66.67%	10.24%	68.29%	6.35%	85.71%
Max	3.59%	20.96%	0.21%	7.33%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	1.91%	79.67%	0.36%	50.00%	0.59%	22.17%	2.25%	83.33%

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	11/01/2011	TO	11/30/2011

DMR Mailing Zip Code: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

RECEIVED
EPA REGION III
DEC 29 2011
WATER PROTECTION DIVISION
(3WP00)

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	62	******		0	Daily	Comp24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	5.6	******	******		0	7/Daily	Grab
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.1	******	7.9		0	Daily	Grab
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	2198	4029		******	13	18		0	Daily	Comp24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	873	******		******	5.6	******		0	Daily	Comp24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	18.71	36.35		******	******	******	******	0	Continuous	Measrd
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.02	******		0	2/Shift	Grab
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Wastewater Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		12/20/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

None

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		**MM/DD/YYYY**
FROM	11/01/2011	**TO**	11/30/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01838	******		******	<0.00010	******		0	Weekly	Comp24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	10	******		0	Daily	Grab
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1387	1852		******	8	10		0	Daily	Comp24
80082 1 1 Effluent Gross	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Ralph E. Johnson, P.E. Wastewater Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258	12/20/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code / NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

None

	November 2011					City of Reading Wastewater Treatment Plant								
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
30-Oct		12	9	7		24.27									
31-Oct		17	9	8		20.76									
1-Nov	19.2	10	11	9	8.6	18.66	7.2	7.3	0.61		15	50	0.0	37	62
2-Nov	19.9	16	8	5	8.2	18.98	7.2	7.5	0.58		14	60	0.0	34	66
3-Nov	17.7	14	8	16	8.0	17.86	7.3	7.4	0.51		17	75	0.0	36	65
4-Nov	18.5	10	8	11	7.6	16.44	7.3	7.3	0.66		9	50	0.0	44	59
5-Nov	19.7	14	8	14	4.7	16.62	7.4	7.9	0.83		7	50	0.0	29	60
6-Nov	19.5	19	9	13	5.1	17.09	7.4	7.9	0.54		10	50	0.0	28	60
7-Nov	19.7	11	5	10	4.5	16.42	7.4	7.6	0.47		12	60	0.0	33	70
8-Nov	20.7	15	7	15	6.0	16.61	7.2	7.7	0.69		11	60	0.0	41	79
9-Nov	18.6	10	5	8	6.6	14.72	7.1	7.5	0.32		44	65	0.0	38	70
10-Nov	18.9	8	4	8	5.9	17.19	7.0	7.3	0.52		8	75	0.1	45	57
11-Nov	20.7	19	10	11	5.5	14.98	7.1	7.2	0.69		11	65	0.0	37	50
12-Nov	16.8	12	8	9	4.1	15.01	7.2	7.1	0.47		11	65	0.0	32	63
13-Nov	16.7	13	7	11	4.2	16.08	7.3	7.2	0.56		5	60	0.0	35	62
14-Nov	18.9	16	9	10	5.0	15.89	6.8	7.3	0.62		4	65	0.0	47	75
15-Nov	20.6	19	8	6	6.9	15.79	6.6	7.3	0.40		17	75	0.0	57	69
16-Nov	20.0	18	11	14	10.7	20.72	6.5	7.4	0.44		8	75	0.8	53	59
17-Nov	19.2	14	7	11	4.2	16.15	6.5	7.4	0.38		112	75	0.0	40	54
18-Nov	14.6	12	6	10	2.5	14.43	7.8	7.2	0.62		5	60	0.0	31	49
19-Nov	15.2	12	8	9	5.6	14.98	7.6	7.1	0.63		14	60	0.0	29	56
20-Nov	18.9	15	9	8	2.3	16.89	7.3	7.3	0.57		3	75	0.0	42	62
21-Nov	20.4	17	7	14	7.8	16.63	7.0	7.7	0.58		5	75	0.2	50	58
22-Nov	17.6	41	20	44	7.1	36.35	5.8	7.3	0.54		5	60	1.4	47	52
23-Nov	19.2	17	7	18	2.9	27.92	5.6	7.1	0.68		900	60	1.0	42	59
24-Nov	20.3	12	6	15	0.8	23.55	8.0	7.8	0.82		4	60	0.0	34	61
25-Nov	17.0	10	7	11	6.4	20.53	7.6	7.4	0.83		7	65	0.0	35	67
26-Nov	18.4	7	4	17	6.8	19.55	7.5	7.4	0.78		1	60	0.0	34	70
27-Nov	19.6	15	10	11	4.6	18.21	7.4	7.4	0.58		1.3	50	0.0	36	69
28-Nov	19.6	15	10	15	4.1	21.18	6.9	7.3	0.78		3	50	0.0	58	75
29-Nov	20.4	28	17	20	8.7	24.09	6.4	7.5	0.79		8	60	0.9	51	68
30-Nov	18.7	17	8	9	2.1	21.83	6.1	7.4	0.79		168	50	0.1	42	51
1-Dec		17	8	15		20.23									
2-Dec		19	10	17		18.38									
3-Dec		16	9	16		18.00									
						See DO profile			<						
TOTAL		508	279	430	167.1	618.0	###	222.1	18.28			1860	4.5		
Week 1	19.2	13	9	10	6.7	19.08	7.31	7.55	0.60		12	56		34	63
Week 2	18.8	13	7	11	5.3	16.00	7.10	7.33	0.55		13	65	0.0	39	65
Week 3	18.4	15	8	10	5.7	16.29	7.04	7.33	0.52		23	71	0.2	43	58
Week 4	18.8	17	9	18	4.7	23.06	6.97	7.40	0.72		132	58	0.3	41	65
Week 5		18	10	15		20.27									
Monthly	18.8	15	8	13	5.6	18.71	7.1	7.4	0.61		10	62	0.15	40	63
Weekly averages: 10/30 - 11/5, 11/6-12, 11/13-19, 11/20-26 and 11/27 - 12/3.															
Min =	14.6	7	4	5	0.8	14.43	5.6	7.1	0.3		1	50	0.0	28	49
Max =	20.7	41	20	44	10.7	36.35	8.0	7.9	0.8		900	75	1.4	58	79
DISCHARGE LIMITATIONS															
Ave Monthly			25	30	18		Min.	6.0			10,000	186			
Ave Weekly			40	45			of	to							
Inst. Max			50	60	24		5.0	9.0				465			

Print Date: 12/20/2011

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
30-Oct							2,429	1,822						1,417								
31-Oct							2,943	1,558						1,385								
1-Nov	10,447	57,374	67,822	-14,530		53,292	1,556	1,712	7,227	26,630	33,858	5,607	39,465	1,401	1,050	1,249	1,570	2,818	250	1,994	3,068	1,331
2-Nov	6,956	43,385	50,341	-11,483		38,858	2,533	1,266	6,354	25,946	32,300	-11,613	20,687	791	3,741	649	1,786	2,435	1,828	3,637	4,263	1,301
3-Nov	3,144	35,275	38,419	-8,407		30,012	2,085	1,192	5,974	23,447	29,421	13,570	42,991	2,383	1,950	601	2,023	2,624	648	2,843	3,272	1,192
4-Nov	4,604	39,617	44,220	-3,811		40,410	1,371	1,097	5,755	38,601	44,355	-11,506	32,849	1,508	1,012	610	1,910	2,520	-17	2,724	2,503	1,042
5-Nov	5,090	36,137	41,227	-13,923		27,304	1,941	1,109	5,449	24,160	29,610	758	30,367	1,941	1,810	596	1,755	2,351	566	1,424	2,917	651
6-Nov	7,154	59,047	66,201	-23,035	331	43,166	2,708	1,283	7,245	40,349	47,594	-20,535	27,059	1,853	1,664	639	1,742	2,381	711	2,390	3,092	720
7-Nov	4,051	38,347	42,398	-9,928		32,471	1,506	685	6,202	33,503	39,706	-19	39,687	1,369	2,241	651	1,816	2,467	1,166	3,805	3,634	614
8-Nov	5,014	38,631	43,645	-93	393	43,551	2,078	970	7,020	36,506	43,526	10,229	53,755	2,078	1,542	630	1,796	2,426	1,096	8,296	3,521	831
9-Nov	2,485	25,112	27,597	-1,233		26,365	1,228	614	6,164	24,189	30,352	-2,699	27,654	982	1,831	527	1,588	2,115	850	5,065	2,965	809
10-Nov	2,919	36,779	39,698	-1,518		38,181	1,147	573	2,627	43,547	46,174	10,333	56,507	1,147	2,833	543	1,481	2,024	1,260	6,556	3,284	840
11-Nov	8,115	52,847	60,963	-4,568		56,395	2,374	1,249	4,594	29,021	33,615	-3,461	30,154	1,374	283	439	1,326	1,765	1,228	5,472	2,992	692
12-Nov	16,653	43,435	60,088	-11,154		48,934	1,502	1,001	11,865	22,079	33,945	5,902	39,846	1,127	215	606	1,828	2,434	455	3,519	2,889	512
13-Nov	6,860	45,661	52,521	-3,829	279	48,692	1,743	939	7,244	38,173	45,417	-6,701	38,716	1,475	294	620	1,342	1,963	971	4,550	2,933	559
14-Nov	5,855	64,141	69,996	-15,840		54,156	2,120	1,193	6,505	35,278	41,783	-11,456	30,327	1,325	392	598	1,632	2,230	1,031	5,179	3,261	656
15-Nov	4,624	44,464	49,088	-1,127		47,960	2,502	1,054	6,268	42,724	48,992	-13,021	35,970	790	5,246	624	1,798	2,422	1,579	7,111	4,001	903
16-Nov	6,822	39,577	46,398	329		46,728	3,110	1,901	9,051	47,492	56,543	-7,824	48,719	2,419	2,471	629	1,871	2,500	1,284	6,599	3,784	1,849
17-Nov	4,924	32,014	36,938	-5,587	201	31,351	1,886	943	5,635	24,105	29,740	-2,035	27,705	1,482	822	550	1,601	2,151	985	3,418	3,135	568
18-Nov	3,826	32,907	36,733	-4,348		32,385	1,444	722	2,370	14,966	17,336	-4,473	12,862	1,203	1,312	622	1,812	2,434	1,126	194	3,560	301
19-Nov	5,360	34,376	39,736	5,955		45,691	1,499	999	6,288	25,828	32,116	-6,482	25,634	1,124	2	740	1,979	2,719	628	63	3,347	700
20-Nov	6,482	44,210	50,692	11,138	398	61,830	2,113	1,268	5,364	51,873	57,238	-21,654	35,584	1,127	187	573	1,542	2,115	913	6,222	3,028	320
21-Nov	5,608	42,174	47,782	-1,785		45,997	2,358	971	7,550	34,944	42,494	1,203	43,697	1,942	1,647	602	1,667	2,269	1,309	5,946	3,578	1,076
22-Nov	10,171	50,601	60,772	5,317	587	66,089	12,430	6,063	15,459	56,014	71,474	27,356	98,830	13,339	2,288	854	2,003	2,857	1,811	7,406	4,669	2,152
23-Nov	5,813	39,837	45,650	-3,271		42,379	3,958	1,630	4,650	24,985	29,636	-6,583	23,052	4,191	725	452	1,047	1,499	119	1,848	1,618	680
24-Nov	6,451	34,389	40,840	-6,562		34,277	2,357	1,178	5,327	22,061	27,388	2,433	29,821	2,946		608	1,531	2,139	1,289		3,428	160
25-Nov	3,678	30,206	33,884	-5,587		28,297	1,712	1,199	5,370	27,418	32,787	3,310	36,098	1,883	1,021	622	1,708	2,329	1,556	3,615	3,885	1,089
26-Nov	3,486	13,391	16,877	-1,500		15,377	1,141	652	5,438	56,241	61,679	-14,229	47,450	2,772	300	655	1,730	2,385	690	4,710	3,075	1,105
27-Nov	6,209	35,151	41,360	-11,218	279	30,142	2,278	1,519	6,209	29,364	35,573	-15,105	20,469	1,671	223	588	2,486	3,074	-635	4,994	2,439	696
28-Nov	6,380	43,162	49,542	-1,616		47,926	2,650	1,766	5,813	23,241	29,054	6,598	35,652	2,650	8,065	634	1,682	2,317	1,658		3,974	726
29-Nov	8,224	47,250	55,474	4,397		59,871	5,625	3,415	10,313	48,815	59,128	6,771	65,899	4,018	1,395	645	1,878	2,522	1,637		4,159	1,740
30-Nov	4,101	48,971	53,072	-17,172		35,900	3,095	1,456	5,592	21,029	26,621	-2,144	24,477	1,639	2,567	570	1,786	2,356	1,415	2,603	3,771	379
1-Dec							2,868	1,350						2,531								
2-Dec							2,912	1,533						2,606								
3-Dec							2,402	1,351						2,402								
TOTAL	181,505	1,228,469	1,409,974	-155,986	2,467	1,253,988	84,234	45,853	196,923	992,530	1,189,454	-67,468	1,121,985	73,489	49,128	18,925	51,716	70,641	29,406	112,182	100,047	26,194
Week 1	5,921	44,169	50,090	-12,159	331	37,930	2,123	1,394	6,315	30,377	36,692	-3,391	33,301	1,547	1,924	713	1,800	2,514	736	2,688	3,250	979
Week 2	6,843	43,801	50,644	-5,462	336	45,182	1,792	911	6,574	32,685	39,259	307	39,566	1,419	1,056	566	1,570	2,137	984	5,520	3,121	700
Week 3	5,378	38,532	43,910	654	299	44,563	2,044	1,107	6,075	34,562	40,637	-7,755	32,882	1,403	1,669	620	1,753	2,373	1,118	4,222	3,490	817
Week 4	6,027	35,248	41,275	-3,491	433	37,784	3,724	1,852	6,895	34,189	41,084	540	41,625	4,029	2,104	630	1,741	2,371	927	4,514	3,298	944
Week 5							3,119	1,770						2,502								
Monthly	6,050	40,949	46,999	-5,200	352	41,800	2,535	1,387	6,564	33,084	39,648	-2,249	37,400	2,198	1,694	631	1,724	2,355	980	4,155	3,335	873
Min =	2485	13391	16877	-23035	201	15377	1141	573	2370	14966	17336	-21654	12862	790	2	439	1047	1499	-635	63	1618	160
Max =	16653	64141	69996	11138	587	66089	12430	6063	15459	56241	71474	27356	98830	13339	8065	1249	2486	3074	1828	8296	4669	2152
								4,170						7,130								3,000
								6,255						10,696								

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	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
30-Oct								
31-Oct								
1-Nov	< 0.00010	< 0.00358	< 0.00010	< 0.01083	< 0.00010	< 0.01440	< 0.00010	< 0.01556
2-Nov								
3-Nov								
4-Nov								
5-Nov								
6-Nov								
7-Nov								
8-Nov	0.00010	0.00279	< 0.00010	< 0.00966	0.00020	0.02489	< 0.00010	< 0.01385
9-Nov								
10-Nov								
11-Nov								
12-Nov								
13-Nov								
14-Nov								
15-Nov	< 0.00010	< 0.00257	0.00010	0.00967	0.00030	0.03670	< 0.00010	< 0.01317
16-Nov	< 0.00010	< 0.00333	0.00020	0.02399	0.00040	0.06128	< 0.00010	< 0.01728
17-Nov								
18-Nov								
19-Nov								
20-Nov								
21-Nov								
22-Nov	0.00020	0.01356	0.00020	0.04707	0.00010	0.03032	< 0.00010	< 0.03032
23-Nov								
24-Nov								
25-Nov								
26-Nov								
27-Nov								
28-Nov								
29-Nov	0.00020	0.00889	0.00020	0.03129	0.00020	0.04018	< 0.00010	< 0.02009
30-Nov								
1-Dec								
2-Dec								
3-Dec								
Total	0.00080	0.03471	0.00090	0.13250	0.00130	0.20777	0.00060	0.11027
Week 1	< 0.00010	< 0.00358	< 0.00010	< 0.01083	< 0.00010	< 0.01440	< 0.00010	< 0.01556
Week 2	0.00010	0.00279	< 0.00010	< 0.00966	0.00020	0.02489	< 0.00010	< 0.01385
Week 3	< 0.00010	< 0.00295	0.00015	0.01683	0.00035	0.04899	< 0.00010	< 0.01522
Week 4	0.00020	0.01356	0.00020	0.04707	0.00010	0.03032	< 0.00010	< 0.03032
Week 5	0.00020	0.00889	0.00020	0.03129	0.00020	0.04018	< 0.00010	< 0.02009
Monthly	< 0.00013	< 0.00579	< 0.00015	< 0.02208	< 0.00022	< 0.03463	< 0.00010	< 0.01838
Min =	< 0.00010	< 0.00257	< 0.00010	< 0.00966	< 0.00010	< 0.01440	< 0.00010	< 0.01317
Max =	0.00020	0.01356	0.00020	0.04707	0.00040	0.06128	< 0.00010	< 0.03032
							0.00023	0.055
							0.00046	

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	November 2011				City of Reading Wastewater Treatment Plant																Laboratory Process Control Data									
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent							
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
30-Oct																																		
31-Oct																																		
1-Nov	292	202	7.3	34.9	530	246	7.4	14.5	471	235	19.6	-101	39	1.7	370	274	21.3	7.2	6.9	19.3	17.27	212	59	18.8	0.1	6.9	41	46	15.5		1	7.4	28	19
2-Nov	208	190	7.6	19.4	408	244	7.4	16.8	360	231	17.4	-82	-83	13.1	278	148	30.5	7.4	7.4	19.0	16.76	180	46	24.6	0.1	6.9	44	46	19.0	240	3	7.4	27	17
3-Nov	100	190	7.9	19.1	340	226	6.1	19.5	284	218	19.4	-62	100	4.8	222	318	24.2	7.0	5.3	18.9	16.21	175	69	24.1	0.1	7.0	32	29	19.7		3	7.4	27	20
4-Nov	160	200	7.7	21.2	390	380	7.3	18.8	339	340	19.3	-29	-88	-0.1	310	252	19.2	7.0	4.5	19.7	15.63	212	57	22.7	0.1	6.8	31	20	19.9	300	1	7.3	24	9
5-Nov	170	182	7.6	19.9	350	234	7.3	17.0	310	222	17.7	-105	6	4.2	205	228	21.9	7.3	7.7	19.4	15.97	165	46	20.6	0.1	6.8	34	28	16.6		4	7.5	31	15
6-Nov	235	238	7.8	21.0	600	410	7.5	17.7	514	369	18.5	-179	-159	5.5	335	210	24.0	7.3	7.7	18.7	15.45	202	43	21.6	0.1	7.0	32	31	17.8		3	7.4	24	17
7-Nov	145	222	8.7	23.3	380	332	7.3	18.0	329	308	19.1	-77	0	9.1	252	308	28.2	7.2	7.4	18.6	15.45	202	61	24.0	0.2	6.9	30	27	18.8	240	4	7.9	27	11
8-Nov	180	252	7.8	22.6	400	378	7.1	18.6	351	350	19.5	-1	82	8.8	350	432	28.3	7.1	7.2	19.2	14.92	200	62	27.3	0.1	6.9	31	40	19.1		4	7.4	32	23
9-Nov	100	248	7.7	21.2	272	262	7.2	17.2	236	259	18.0	-11	-23	7.3	225	236	25.3	7.2	7.7	18.9	14.05	145	62	23.0	0.1	6.8	22	27	17.7	300	2	7.3	24	10
10-Nov	100	90	7.8	18.6	375	444	7.2	15.1	312	363	15.9	-12	81	9.9	300	444	25.8	7.1	4.3	20.0	15.26	100	55	25.5	0.1	6.8	13	28	18.5		2	7.3	32	19
11-Nov	318	180	7.7	17.2	590	324	7.1	14.8	530	292	15.3	-40	-30	10.7	490	262	26.0	7.2	4.8	19.8	13.80	285	53	18.6	0.2	6.8	32	20	14.3		4	7.6	33	31
12-Nov	640	456	7.6	23.3	480	244	7.4	20.2	516	291	20.9	-96	51	3.9	420	342	24.8	7.5	5.4	18.2	13.97	242	59	22.9	0.1	6.8	32	28	17.8		4	7.6	36	49
13-Nov	250	264	7.6	22.6	500	418	7.5	14.7	442	382	16.5	-32	-56	8.2	410	326	24.7	7.1	6.2	18.9	14.24	242	68	22.7	0.0	6.9	32	19	12.7		5	7.5	23	37
14-Nov	225	250	7.7	23.0	680	374	7.2	17.3	582	347	18.5	-132	-95	8.6	450	252	27.1	7.2	7.9	19.0	14.43	298	64	23.3	0.1	6.7	32	31	17.9	300	3	7.2	27	16
15-Nov	180	244	8.7	24.3	460	442	7.1	18.6	401	400	19.8	-9	-106	12.9	392	294	32.7	7.1	7.2	19.8	14.67	268	43	26.7	0.1	6.5	52	45	20.6		2	7.1	27	8
16-Nov	205	272	7.7	18.9	330	396	7.1	15.6	303	369	16.3	2	-51	8.4	305	318	24.7	7.0	6.4	20.3	18.37	208	60	21.9	0.1	6.6	32	30	19.4	300	3	7.2	32	18
17-Nov	180	206	7.6	20.1	340	256	7.3	17.0	304	245	17.7	-46	-17	8.1	258	228	25.8	7.1	10.7	18.9	14.57	205	46	20.2	0.1	6.9	26	35	16.5		5	7.4	24	13
18-Nov	155	96	7.6	25.2	365	166	7.3	20.1	320	151	21.2	-38	-39	9.8	282	112	31.0	7.1	8.6	18.7	13.77	238	62	22.5	0.1	6.7	22	22	15.7	240	4	7.6	21	11
19-Nov	208	244	7.6	28.7	370	278	7.4	21.3	335	271	22.9	50	-55	5.3	385	216	28.2	7.3	7.4	17.9	14.23	207	66	26.6	0.6	6.8	39	51	22.5		6	7.6	24	10
20-Nov	232	192	7.5	20.5	450	528	7.4	15.7	402	454	16.8	88	-172	7.2	490	282	24.0	7.2	8.6	18.4	15.13	240	65	21.4	0.1	6.7	35	22	16.7		5	7.4	28	13
21-Nov	205	276	7.7	22.0	420	348	7.1	16.6	374	333	17.8	-14	9	10.2	360	342	28.0	7.2	8.2	19.3	15.32	218	64	24.1	0.1	8.2	28	27	20.3	220	3	7.2	26	18
22-Nov	150	228	7.5	12.6	215	238	7.2	8.5	200	236	9.4	18	90	6.0	218	326	15.4	7.1	7.4	18.7	36.35	135	57	15.4	0.1	6.8	37	33	15.6		2	7.4	37	21
23-Nov	100	80	7.3	7.8	228	143	7.2	6.0	196	127	6.4	-14	-28	0.5	182	99	7.0	7.3	10.0	16.2	27.92	115	54	7.1	6.9	7.2	26	29	5.9	240	1	6.9	26	18
24-Nov	155	128	7.6	14.6	265	170	7.5	11.8	238	160	12.5	-38	14	7.5	200	174	20.0	7.5	11.9	16.6	20.55	145	71	13.1	0.6	7.1	32	57	9.8		6	7.3	16	19
25-Nov	100	146	7.5	16.9	260	236	7.4	14.7	222	214	15.2	-37	22	10.2	185	236	25.4	7.4	10.4	17.4	18.34	110	69	21.3	0.3	7.8	23	13	18.3	200	6	7.3	22	16
26-Nov	100	156	7.6	18.8	120	504	9.9	15.5	115	421	16.3	-10	-97	4.7	105	324	21.0	7.2	12.1	17.5	17.56	100	60	19.5	1.1	7.0	13	17	17.8		6	7.2	17	15
27-Nov	188	188	7.7	17.8	328	274	7.5	23.2	295	254	21.9	-80	-108	-4.5	215	146	17.4	7.2	11.1	17.1	16.81	140	41	16.8	1.4	8.0	24	32	15.9		6	7.3	19	8
28-Nov	180	164	7.5	17.9	390	210	7.2	15.2	339	199	15.9	-11	45	11.3	328	244	27.2	7.3	7.8	19.1	17.52	185	54	20.7	0.1	6.9	29	21	16.7	240	4	7.6	28	13
29-Nov	185	232	7.2	14.5	302	312	7.6	12.0	276	294	12.6	22	34	8.1	298	328	20.7	7.2	7.9	18.8	24.09	150	55	15.6	0.1	6.9	38	33	15.5		3	7.3	37	21
30-Nov	110	150	7.5	15.3	340	146	7.3	12.4	293	147	13.0	-95	-12	7.8	198	135	20.8	7.4	10.3	17.1	21.74	170	62	16.8	1.4	7.1	30	27	12.7	240	5	7.4	26	17
1-Dec																																		
2-Dec																																		
3-Dec																																		
TOTAL	5756	6166	230.0	603.2	11478	9163	220.1	484.4	10187	8483	511.4	-1169	-647	209.2	9018	7836	720.6	###	###	559.4	520.35	5694	1733	629.4	14.4	###	924	914	505.2	3060.0	111.9	221.3	805	532
Week 1	187	203	7.8	22.7	428	296	7.2	17.5	372	275	18.7	-91	-27	5.5	282	248	24.2	7.2	6.7	19.1	16.11	193	54	22.3	0.1	6.9	35	32	18.2	260.0	2.8	7.5	27	15
Week 2	259	249	7.7	21.2	471	349	7.2	16.8	424	326	17.8	-46	1	8.2	378	328	26.0	7.2	6.2	19.1	14.38	216	60	23.3	0.1	6.8	28	28	16.9	300.0	3.6	7.4	30	26
Week 3	195	219	7.8	22.8	391	345	7.2	17.8	348	317	18.9	5	-61	8.9	353	256	27.8	7.1	8.1	19.0	15.15	226	58	23.3	0.2	6.9	33	33	18.8	253.3	4.1	7.3	26	13
Week 4	139	156	7.5	15.2	258	254	7.7	13.6	229	230	13.9	-25	-9	5.1	205	221	19.1	7.3	10.1	17.5	22.15	133	58	16.3	1.5	7.3	26	29	14.3	226.7	4.4	7.3	24	16
Week 5																																		
Monthly	192	206	7.7	20.1	383	305	7.3	16.1	340	283	17	-39	-22	7	301	261	24.0	7.2	7.9	19	17	190	58	21.0	0.5	7.0	31	30	16.8	255	3.7	7.4	27	18
Min =	100	80	7.2	7.8	120	143	6.1	6.0	115	127	6	-179	-172	-5	105	99	7.0	7.0	4.3	16	14	100	41	7.1	0.0	6.5	13	13	5.9	200	0.5	6.9	16	8
Max =	640	456	8.7	34.9	680	528	9.9	23.2	582	454	23	88	100	13	490	444	32.7	7.5	12.1	20	36	298	71	27.3	6.9	8.2	52	57	22.5	300	6.1	7.9	37	49
									%Removal						%Removal																			
									95.52	95.50	67.32				94.94	95.13	76.81																			

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	chloride	DO	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	DO	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
10.6		130	6	7.5	24	15	9	8.5				6.7	7.5		440.0	836.0
15.4	200	135	7	7.6	27	14	9	7.8	200			6.6	7.5		720.0	700.0
12.9		120	7	7.5	24	13	8	7.9				6.7	7.5	sd	408.0	595.0
14.7	280	120	5	7.3	21	12	3	7.3	180			6.7	7.3		420.0	1130.0
12.2		120	7	7.6	26	13	6	4.8				7.5	7.5		620.0	488.0
9.9		120	8	7.6	22	12	7	5.0				8.1	7.4	67.0	337.0	484.0
12.5	200	115	6	7.5	20	10	8	4.2	180			7.7	7.3		430.0	730.0
14.7		120	7	7.5	22	12	13	6.0		5.2	0.938	7.3	7.4	67.0	263.0	1415.0
12.7	220	130	7	7.5	21	9	7	5.3	160			6.8	7.4		376.0	1040.0
13.5		140	5	7.3	22	6	11	5.9				6.8	7.3		430.0	995.0
14.4		150	8	7.7	34	16	9	6.3				7.3	7.4		61.0	1180.0
12.2		140	6	7.6	21	14	11	4.5				7.5	7.5		75.0	1230.0
12.3		125	6	7.5	22	13	13	3.5				7.6	7.5	76.0	80.0	1240.0
12.0	240	130	6	7.4	25	15	9	5.0	160	11.8	0.942	7.2	7.4		87.0	1150.0
15.9		150	4	7.2	24	12	7	7.3				6.1	7.2		1243.0	1685.0
16.1	240	125	5	7.2	28	15	15	10.6	200			6.4	7.3		468.0	1250.0
16.5		125	8	7.5	26	11	9	5.1				7.5	7.4	64.0	262.0	1090.0
10.5	220	145	8	7.6	20	11	15	2.9	180			8.8	7.4		332.0	49.0
16.4		140	8	7.6	24	12	17	5.4				7.5	7.5		34.0	1085.0
10.0		125	7	7.5	30	14	8	2.2				7.8	7.4	64.0	30.0	1000.0
15.6	240	120	6	7.2	22	13	10	7.8	200	12.9	0.982	6.8	7.2		277.0	1000.0
11.8		135	6	7.4	34	16	16	8.4				6.6	7.4	88.0	343.0	1110.0
4.6	200	120	6	7.1	28	13	15	2.9	180			6.9	7.2		416.0	1060.0
5.7		120	8	7.5	17	8	25	0.9				9.0	7.6		ns	ns
13.7	180	105	6	7.5	20	8	9	6.6	160			8.5	7.5		178.0	630.0
13.0		110	9	7.4	12	6	7	6.4				8.0	7.4		78.0	1225.0
11.1		120	9	7.4	24	13	12	4.4				7.5	7.3	60.0	48.0	1075.0
11.0	200	120	8	7.4	21	13	14	4.2	180			7.4	7.8		1000.0	
10.1		145	5	7.4	40	22	16	7.2				6.7	7.4		407.0	
7.4	220	135	8	7.4	22	11	11	2.1	180			8.2	7.5		363.0	368.0
369.3	2640.0	3835.0	202.7	223.3	723	372	329	166.3	2160.0	29.9	2.862	220.1	222.5	486.0	10226.0	25840.0
12.6	226.7	122.9	6.5	7.5	23	13	7	6.5	186.7			7.1	7.4	67	482	709
13.1	230.0	133.6	6.5	7.5	24	12	10	5.2	160.0	8.5	0.940	7.2	7.4	72	196	1179
14.4	233.3	132.9	6.7	7.4	25	13	12	5.9	193.3	12.9	0.982	7.3	7.4	64	378	1023
10.1	193.3	118.6	7.4	7.4	22	11	14	4.8	173.3			7.7	7.5	74	344	1020
12.3	220	128	6.8	7.4	24	12	11	5.5	180	10.0	0.954	7.3	7.4	69	353	957
4.6	180	105	4.3	7.1	12	6	3	0.9	160	5.2	0.938	6.1	7.2	60	30	49
16.5	280	150	9.2	7.7	40	22	25	10.6	200	12.9	0.982	9.0	7.8	88	1243	1685

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November 2011

		Flow (MGD)											On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc.	% Secondary Recirc.	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
30-Oct						19.190	24.270											
31-Oct						18.260	20.760											
1-Nov	12.980	2.556	0.726	4.290		17.270	18.660	8.650	5.760	0.286	50	33						
2-Nov	12.750	2.328	0.659	4.010		16.760	18.980	8.710	5.510	0.623	52	33						
3-Nov	12.440	2.267	0.653	3.770		16.210	17.860	8.820	5.710	0.573	54	35						
4-Nov	12.180	2.169	0.611	3.450		15.630	16.440	8.840	6.020	0.289	57	39						
5-Nov	12.380	2.306	0.621	3.590		15.970	16.620	8.680	6.140	0.350	54	38						
6-Nov	11.800	2.238	0.621	3.650		15.450	17.090	7.700	5.890	0.592	50	38						
7-Nov	12.100	2.069	0.639	3.350		15.450	16.420	7.030	5.810	0.625	46	38						
8-Nov	11.580	2.051	0.691	3.340		14.920	16.610	7.800	5.730	0.703	52	38						
9-Nov	11.070	1.958	0.671	2.980		14.050	14.720	8.840	5.890	0.584	63	42						
10-Nov	11.760	1.908	0.642	3.500		15.260	17.190	8.810	5.740	0.790	58	38						
11-Nov	10.740	2.070	0.599	3.060		13.800	14.980	8.670	6.020	0.556	63	44						
12-Nov	10.850	1.830	0.555	3.120		13.970	15.010	8.200	5.800	0.343	59	42						
13-Nov	10.950	2.150	0.616	3.290		14.240	16.080	8.320	5.740	0.440	58	40						
14-Nov	11.310	1.933	0.653	3.120		14.430	15.890	8.240	5.550	0.540	57	38						
15-Nov	11.590	2.017	0.708	3.080		14.670	15.790	8.620	5.670	0.506	59	39						
16-Nov	14.380	2.413	0.774	3.990		18.370	20.720	8.710	5.870	0.633	47	32						
17-Nov	11.290	1.979	0.669	3.280		14.570	16.150	8.360	5.810	0.376	57	40						
18-Nov	10.810	1.821	0.600	2.960		13.770	14.430	8.390	5.890	0.474	61	43						
19-Nov	11.140	2.110	0.582	3.090		14.230	14.980	9.350	6.020	0.007	66	42						
20-Nov	11.780	2.129	0.619	3.350		15.130	16.890	7.920	5.140	0.746	52	34						
21-Nov	12.040	2.088	0.624	3.280		15.320	16.630	8.610	5.900	0.713	56	39						
22-Nov	28.220	5.727	1.078	8.130		36.350	36.350	4.840	1.940	0.800	13	5						
23-Nov	20.950	3.848	0.676	6.970		27.920	27.920	3.990	0.880	0.209	14	3	05:30	10:30				
24-Nov	15.560	3.059	0.551	4.990		20.550	23.550	8.550	3.790	0.598	42	18						
25-Nov	13.930	2.777	0.594	4.410		18.340	20.530	8.860	6.020	0.688	48	33						
26-Nov	13.380	3.585	0.543	4.180		17.560	19.550	8.480	5.810	0.461	48	33						
27-Nov	12.850	1.556	0.615	3.960		16.810	18.210	8.780	5.770	0.557	52	34						
28-Nov	13.270	2.592	0.754	4.250		17.520	21.180	9.060	5.440	0.967	52	31						
29-Nov	18.760	3.421	0.851	5.330		24.090	24.090	7.270	2.570	0.411	30	11						
30-Nov	17.270	4.423	0.769	4.470		21.740	21.830	8.290	4.270	0.848	38	20						
1-Dec							20.230											
2-Dec							18.380											
3-Dec							18.000											

Influent flow used in lieu of Effluent due to inconsistencies with readings over 25 MGD.

Total	402.110	75.378	19.964	118.240	0.000	520.350	617.960	245.390	158.100	16.288	1509.501	992.57
Week 1	12.376	2.276	0.647	3.730	#DIV/0!	16.106	19.084	8.347	5.834	0.477	52	36
Week 2	11.180	1.986	0.632	3.201	#DIV/0!	14.381	16.003	8.411	5.781	0.565	59	40
Week 3	11.861	2.080	0.654	3.290	#DIV/0!	15.151	16.291	8.566	5.757	0.494	57	38
Week 4	16.880	3.306	0.687	5.270	#DIV/0!	22.150	23.060	7.509	4.236	0.611	39	23
Week 5							20.274					
Monthly	13.404	2.513	0.665	3.941	#DIV/0!	17.345	18.712	8.180	5.270	0.543	50	33
Min =	10.740	1.556	0.543	2.960	0.000	13.770	14.430	3.990	0.880	0.007	13	3
Max =	28.220	5.727	1.078	8.130	0.000	36.350	36.350	9.350	6.140	0.967	66	44

Print Date: 12/20/2011

	November 2011			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
30-Oct															
31-Oct	7.2	629	5080	6.9	862	4060	7.2	342	5600	7.2	1062	5480	6.9	1304	600
1-Nov															
2-Nov	7.2		5540	7.1		4620	7.3		5460	7.2		5360	6.9		40
3-Nov															
4-Nov	7.2	185	5240	7.1	598	4700	7.2	179	5460	7.2	317	5240	7.2	215	5680
5-Nov															
6-Nov															
7-Nov	7.2		5380	7.1		4420	7.3		5300	7.2		5320	7.2		5000
8-Nov															
9-Nov	7.3	35	4700	6.9	585	4340	7.1	115	5360	7.1	467	5600	7.1	125	5280
10-Nov															
11-Nov															
12-Nov															
13-Nov															
14-Nov	7.2	140	5140	7.2	138	4680	7.2	317	5140	7.1	362	5500	7.1	360	5380
15-Nov															
16-Nov	7.2		4880	7.2		4420	7.2		4640	7.2		4940	7.1		5120
17-Nov															
18-Nov	7.2	148	4880	7.2	510	4680	7.3	200	5140	7.2	204	5500	7.1	308	5560
19-Nov															
20-Nov															
21-Nov	7.2	156	4900	7.0	875	4640	7.3	212	5180	7.3	240	5240	7.1	302	5140
22-Nov															
23-Nov	7.1	185	5020	7.2	1056	5020	7.3	202	5440	7.3	233	5440	7.1	344	5400
24-Nov															
25-Nov	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
26-Nov															
27-Nov															
28-Nov	6.8	615	3040	7.1	698	5220	7.0	321	5240	7.1	906	5300	7.1	515	5500
29-Nov															
30-Nov	7.1		4480	7.2		5220	7.1		5160	7.2		5200	7.0		4800
1-Dec															
2-Dec															
3-Dec															
Total	78.6	1464	53200	78.2	4460	51960	79.2	1546	57520	79.0	2729	58640	78.1	2169	52900
Week 1	7.2	185	5387	7.1	598	4580	7.3	179	5407	7.2	317	5307	7.1	215	3573
Week 2	7.3	88	4920	7.1	362	4510	7.1	216	5250	7.1	415	5550	7.1	243	5330
Week 3	7.2	152	4887	7.1	693	4580	7.3	206	4987	7.2	222	5227	7.1	305	5273
Week 4	7.0	400	4030	7.1	877	5120	7.1	262	5340	7.2	570	5370	7.1	430	5450
Week 5															
Monthly	7.1	209	4836	7.1	637	4724	7.2	221	5229	7.2	390	5331	7.1	310	4809
Min =	6.8	35	3040	6.9	138	4340	7.0	115	4640	7.1	204	4940	6.9	125	40
Max =	7.3	615	5540	7.2	1056	5220	7.3	321	5460	7.3	906	5600	7.2	515	5680

Print Date: 12/20/2011

Dissolved Oxygen -November 2011

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab
11/1/2011	7.5	7.6	7.5	7.5	7.3	7.2	7.6	7.2
11/2/2011	7.4	7.6	7.4	7.3	7.2	7.2	7.6	7.2
11/3/2011	7.4	7.4	7.4	7.4	7.3	7.4	7.3	7.3
11/4/2011	7.4	7.4	7.3	7.4	7.4	7.3	7.9	7.3
11/5/2011	7.4	7.6	7.7	7.5	7.5	7.6	8.1	7.4
11/6/2011	7.6	7.6	7.7	7.6	7.6	7.4	8.8	7.4
11/7/2011	7.5	7.6	7.5	7.5	7.4	7.5	7.9	7.4
11/8/2011	7.5	7.3	7.5	7.4	7.3	7.2	8.0	7.2
11/9/2011	7.3	7.1	7.1	7.3	7.3	7.2	7.4	7.1
11/10/2011	7.1	7.0	7.2	7.1	7.1	7.1	7.4	7.0
11/11/2011	7.1	7.3	7.4	7.7	7.6	7.6	7.8	7.1
11/12/2011	7.8	7.7	7.8	8.4	7.3	7.2	8.1	7.2
11/13/2011	7.4	7.6	7.7	7.6	7.4	7.3	8.1	7.3
11/14/2011	7.3	7.2	7.3	7.3	6.9	6.8	7.6	6.8
11/15/2011	6.9	6.8	6.9	6.8	6.7	6.6	7.1	6.6
11/16/2011	6.8	6.8	6.7	6.5	6.5	6.5	6.5	6.5
11/17/2011	6.5	6.7	7.1	7.4	7.5	7.6	7.7	6.5
11/18/2011	7.8	8.0	7.9	8.0	8.1	7.9	9.3	7.8
11/19/2011	8.0	7.9	8.1	7.8	7.7	7.6	8.8	7.6
11/20/2011	7.6	7.5	7.6	7.6	7.4	7.3	8.0	7.3
11/21/2011	7.3	7.2	7.1	7.0	7.0	7.1	7.2	7.0
11/22/2011	7.0	7.1	7.0	6.8	6.4	5.8	7.3	5.8
11/23/2011	5.6	5.9	6.5	7.4	7.2	7.4	6.8	5.6
11/24/2011	8.1	8.3	8.7	8.7	8.0	8.0	9.2	8.0
11/25/2011	8.0	8.3	8.3	7.8	7.7	7.6	8.7	7.6
11/26/2011	7.8	7.8	7.8	7.6	7.5	7.5	8.3	7.5
11/27/2011	7.6	7.6	7.6	7.5	7.5	7.4	7.8	7.4
11/28/2011	7.2	7.4	7.5	7.1	7.1	6.9	7.8	6.9
11/29/2011	7.0	6.9	7.0	6.7	6.5	6.4	7.3	6.4
11/30/2011	6.1	6.7	7.7	8.0	7.9	7.6	7.5	6.1
Min	5.60	5.90	6.50	6.50	6.40	5.80	6.5	Min 5.60
Max	8.10	8.30	8.70	8.70	8.10	8.00	9.3	Max 8.00
								Avg 7.05

	November 2011 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Nov	0.01	0.02	0.01	0.02	0.02	0.02	0.02	
2-Nov	0.03	0.01	0.01	0.05	0.01	0.01	0.02	
3-Nov	0.02	0.01	0.00	0.04	0.02	0.03	0.02	
4-Nov	0.02	0.02	0.02	0.01	0.05	0.07	0.03	
5-Nov	0.00	0.03	0.00	0.04	0.00	0.01	0.01	
6-Nov	0.02	0.02	0.02	0.02	0.01	0.01	0.02	
7-Nov	0.01	0.02	0.15	0.01	0.01	0.01	0.04	
8-Nov	0.00	0.02	0.01	0.02	0.02	0.04	0.02	
9-Nov	0.02	0.02	0.07	0.02	0.03	0.03	0.03	
10-Nov	0.00	0.00	0.02	0.01	0.03	0.02	0.01	
11-Nov	0.00	0.02	0.01	0.02	0.02	0.02	0.02	
12-Nov	0.00	0.01	0.02	0.02	0.02	0.01	0.01	
13-Nov	0.02	0.03	0.02	0.02	0.01	0.02	0.02	
14-Nov	0.00	0.02	0.03	0.03	0.03	0.03	0.02	
15-Nov	0.01	0.02	0.03	0.03	0.02	0.03	0.02	
16-Nov	0.01	0.03	0.02	0.04	0.03	0.01	0.02	
17-Nov	0.00	0.01	0.01	0.14	0.01	0.03	0.03	
18-Nov	0.02	0.02	0.02	0.02	0.05	0.02	0.03	
19-Nov	0.00	0.01	0.02	0.01	0.01	0.02	0.01	
20-Nov	0.00	0.02	0.03	0.02	0.03	0.00	0.02	
21-Nov	0.01	0.02	0.02	0.03	0.03	0.02	0.02	
22-Nov	0.00	0.02	0.02	0.02	0.00	0.02	0.01	
23-Nov	0.00	0.00	0.01	0.03	0.08	0.03	0.03	
24-Nov	0.00	0.02	0.01	0.02	0.00	0.03	0.01	
25-Nov	0.00	0.02	0.01	0.01	0.01	0.02	0.01	
26-Nov	0.02	0.02	0.02	0.00	0.02	0.02	0.02	
27-Nov	0.02	0.00	0.02	0.00	0.02	0.04	0.02	
28-Nov	0.00	0.01	0.02	0.02	0.04	0.02	0.02	
29-Nov	0.02	0.01	0.00	0.02	0.03	0.02	0.02	
30-Nov	0.00	0.01	0.02	0.01	0.01	0.02	0.01	
Average	0.01	0.02	0.02	0.03	0.02	0.02	0.02	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.03	0.03	0.15	0.14	0.08	0.07		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* November 2011

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 18.81	X 0.01	= 0.00
0.00	X 18.81	X 0.01	= 0.00
0.00	X 18.81	X 0.01	= 0.00
818.26	X 18.81	X 0.01	= 153.91
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 153.91

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	153.91
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

_____
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

_____
Date

City of Reading 3-C Watershed *for the Month* November 2011

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	10/01/2011	TO	10/31/2011

DMR Mailing Zip Code 19601-3690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

RECEIVED
EPA REGION III
NOV 25 2011
WATER PROTECTION DIVISION
(3WP00)

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	64	******		0	Daily	Comp24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.5	******	******		0	7/Daily	Grab
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.2	******	8.1		0	Daily	Grab
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1445	1774		******	10	12		0	Daily	Comp 24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	552	******		******	3.6	******		0	Daily	Comp 24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	17.53	26.42		******	******	******	******	0	continuous	Measrd
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.03	******		0	2/Shift	Grab
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Wastewater Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		11/17/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

None

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		**MM/DD/YYYY**
FROM	10/01/2011	**TO**	10/31/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01336	******		******	<0.00010	******		0	Weekly	Comp 24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	23	******		0	Daily	Grab
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1528	1599		******	11	11		0	Daily	Comp 24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Wastewater Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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	Ralph E. Johnson SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	610-655-6258 AREA Code / NUMBER		11/17/2011 MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

None

October 2011 — City of Reading Wastewater Treatment Plant

	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Oct	21.4	15	8	6	2.3	19.00	7.0	7.9	0.89		3	60	0.18	50	62
2-Oct	20.0	14	9	6	1.9	19.93	7.1	8.1	0.37		144	60	0.24	48	55
3-Oct	20.1	10	6	8	3.0	17.98	7.5	7.5	0.38		168	60	0.02	50	59
4-Oct	20.9	17	14	11	4.8	18.09	6.7	7.6	0.36		303	65	0.00	46	68
5-Oct	19.9	14	14	9	3.3	15.17	7.1	7.4	0.31		251	65	0.00	51	76
6-Oct	20.2	17	11	11	6.4	16.62	7.4	7.3			1.3	60	0.00	43	72
7-Oct	19.4	16	9	7	6.5	14.38	7.3	7.7	0.49		39	65	0.00	42	76
8-Oct	18.9	15	13	9	2.1	15.10	7.3	7.9	0.37		209	60	0.00	45	80
9-Oct	20.5	13	13	10	2.8	17.05	7.1	8.1	0.44		32	60	0.00	50	89
10-Oct	19.9	13	9	11	4.2	17.01	7.0	7.5	0.42		20	65	0.00	52	84
11-Oct	20.6	18	11	8	5.3	15.59	7.0	7.5	0.55		38	65	0.00	54	77
12-Oct	22.1	15	13	7	4.9	17.49	6.9	7.7	0.45		46	85	0.43	59	66
13-Oct	21.0	14	9	14	2.4	15.46	7.1	7.5	0.42		81	75	0.08	59	69
14-Oct	21.6	16	10	16	8.6	24.12	6.5	7.4	0.54		12	75	1.14	54	72
15-Oct	20.4	12	7	8	1.2	19.15	7.1	8.1	0.53		9	75	0.00	50	68
16-Oct	19.0	13	9	7	1.1	13.04	7.6	7.6	0.54		3	65	0.00	54	72
17-Oct	19.4	16	13	9	2.5	17.84	7.4	7.4	0.65		10	60	0.00	48	70
18-Oct	19.1	14	10	8	2.7	15.89	7.2	7.4	0.56		365	75	0.00	45	76
19-Oct	21.2	14	8	10	4.9	21.41	6.9	7.4	0.47		14	60	0.75	59	65
20-Oct	21.4	13	9	8	2.2	18.65	6.9	7.2	0.52		39	50	0.00	56	71
21-Oct	19.0	16	14	12	1.4	13.52	7.3	7.4	0.55		41	50	0.00	47	61
22-Oct	17.2	14	13	10	1.8	15.05	7.4	7.5	0.43		6	60	0.00	42	60
23-Oct	17.7	14	11	9	2.1	15.01	7.4	7.4	0.44		8	65	0.00	39	67
24-Oct	18.7	13	9	11	3.0	16.45	7.3	7.4	0.50		9	75	0.01	43	65
25-Oct	18.3	13	5	11	3.2	15.34	7.3	7.2	0.49		17	75	0.00	44	68
26-Oct	18.7	20	13	11	3.1	15.23	7.1	7.3	0.54		23	65	0.00	46	70
27-Oct	20.4	20	16	14	4.9	17.14	6.9	7.3	0.31		36	65	0.45	44	62
28-Oct	19.3	13	9	8	1.3	15.13	7.2	7.7	0.58		42	65	0.00	37	54
29-Oct	19.5	20	13	18	4.9	26.42	6.5	7.5	1.05		4	50	1.09	35	45
30-Oct	18.4	12	9	7	5.3	24.27	7.2	7.5	1.12		2	50	0.72	32	53
31-Oct	19.2	17	9	8	7.9	20.76	7.1	7.2	0.73		10	50	0.01	29	57
						See DO profile					<				
TOTAL		461	326	302	111.8	543.3	###	233.2	18.10			1975	5.12		
Week 1	20.3	15	11	9	4.0	17.31	7.16	7.64	0.70		130	62	0.06	47	67
Week 2	20.7	14	10	11	4.3	17.40	6.99	7.65	0.46		63	69	0.24	53	77
Week 3	19.9	14	11	9	2.3	17.07	7.20	7.47	0.55		69	62	0.11	51	69
Week 4	18.6	16	11	12	2.8	15.62	7.22	7.38	0.47		20	67	0.07	42	64
Monthly	19.8	15	11	10	3.6	17.53	7.12	7.52			23	64	0.17	47	67
	Weekly averages: 10/2-8, 10/9-15, 10/16-22 and 10/23-10/29.														
Min =	17.2	10	5	6	1.1	13.04	6.5	7.2	0.31		1	50	0.00	29	45
Max =	22.1	20	16	18	8.6	26.42	7.6	8.1	2.10		365	85	1.14	59	89
DISCHARGE LIMITATIONS															
Ave Monthly			20	30	6		Min.	6.0			200	186			
Ave Weekly			30	45			of	to							
Inst. Max			40	60	12		5.0	9.0				465			

Print Date: 11/16/2011

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Oct	4,595	52,751	57,346	-16,070		41,275	2,377	1,268	5,451	32,568	38,019	2,964	40,983	951	106	558	2,236	2794	-13	2,846	2,781	357
2-Oct	8,134	39,330	47,463	-11,933	263	35,530	2,327	1,496	7,125	27,762	34,888	-6,225	28,663	997	93	612	2,337	2,948	291	5,391	3,240	307
3-Oct	3,482	36,590	40,071	5,643		45,714	1,500	900	4,904	28,362	33,267	14,941	48,208	1,200	761	563	1,959	2,522	1,024	4,389	3,546	451
4-Oct	5,239	44,023	49,262	6,589		55,851	2,565	2,112	5,996	30,131	36,127	4,238	40,365	1,660	2,215	504	1,467	1,971	961	4,287	2,932	717
5-Oct	5,812	57,062	62,874	-11,191		51,684	1,771	1,771	5,122	36,312	41,434	-6,183	35,251	1,139	2,137	561	1,722	2,283	1,176	4,179	3,459	415
6-Oct	4,470	36,248	40,718	3,515	426	44,233	2,356	1,525	5,811	32,671	38,483	-15,307	23,176	1,525	1,245	573	1,643	2,216	1,348	4,789	3,564	893
7-Oct	4,033	52,822	56,855	-14,936		41,920	1,919	1,079	5,100	36,065	41,165	-8,379	32,786	840	644	570	1,585	2,155	117	1,434	2,272	774
8-Oct	3,637	42,310	45,947	-4,340		41,607	1,889	1,637	2,963	21,155	24,118	10,841	34,960	1,133	4,380	571	1,654	2,225	163	785	2,388	268
9-Oct	3,567	45,745	49,312	-551	657	48,761	1,849	1,849	4,774	25,434	30,208	4,994	35,203	1,422	4,607	579	1,592	2,171	339	1,898	2,509	397
10-Oct	8,251	35,776	44,027	19,232		63,259	1,844	1,277	7,088	37,753	44,841	-4,608	40,233	1,560	1,149	557	2,006	2,563	398	5,309	2,961	599
11-Oct	7,041	50,832	57,873	-7,779		50,094	2,340	1,430	6,936	29,540	36,476	-4,220	32,256	1,040	1,970	657	1,583	2,239	1,536	5,992	3,775	690
12-Oct	5,403	50,183	55,587	-19,209		36,378	2,188	1,896	7,508	28,676	36,184	-10,275	25,909	1,021	916	629	1,772	2,400	269	4,833	2,669	716
13-Oct	5,379	51,206	56,585	-18,834	688	37,751	1,805	1,160	6,705	19,155	25,860	16,086	41,946	1,805	3,461	575	1,764	2,339	1,340	3,509	3,679	303
14-Oct	5,518	41,522	47,040	6,858		53,898	3,219	2,012	7,558	36,432	43,990	14,594	58,584	3,219	1,498	642	1,875	2,517	1,667	4,935	4,185	1,738
15-Oct	6,576	30,396	36,972	-3,540		33,432	1,917	1,118	6,645	21,615	28,260	3,467	31,727	1,278	376	716	1,554	2,270	142	3,669	2,412	185
16-Oct	1,959	38,601	40,560	-11,442	325	29,118	1,414	979	1,912	24,583	26,494	-488	26,006	761	280	212	1,696	1,909	403	6,306	2,312	115
17-Oct	8,430	41,283	49,713	-4,860		44,853	2,381	1,934	9,526	23,852	33,378	12,680	46,058	1,339	1,784	906	1,560	2,466	1,350	4,834	3,816	373
18-Oct	6,000	48,385	54,385	-5,141		49,244	1,855	1,325	4,734	27,451	32,185	5,443	37,628	1,060	1,325	628	1,738	2,365	1,195	5,256	3,561	360
19-Oct	5,352	41,278	46,630	-15,925		30,705	2,500	1,428	8,287	21,940	30,226	-11,922	18,305	1,786	1,266	618	1,685	2,303	1,269	4,805	3,572	868
20-Oct	5,514	73,544	79,058	-19,390	352	59,668	2,022	1,400	5,747	29,204	34,951	-4,032	30,919	1,244	1,427	551	1,652	2,204	1,227	4,447	3,431	344
21-Oct	4,243	54,080	58,323	-837		57,486	1,804	1,579	3,448	32,821	36,269	2,534	38,803	1,353	927	581	1,613	2,194	465	2,158	2,659	162
22-Oct	8,460	36,884	45,345	461		45,806	1,757	1,632	10,642	19,104	29,746	17,999	47,745	1,255	2,040	580	1,873	2,453	213	415	2,666	228
23-Oct	5,574	38,479	44,053	822	582	44,875	1,753	1,377	6,471	43,976	50,447	-1,310	49,137	1,127	3,815	579	1,796	2,375	69	1,864	2,444	268
24-Oct	5,906	40,626	46,532	-15,221		31,312	1,784	1,235	6,066	27,585	33,650	-12,455	21,196	1,509	2,533	585	1,604	2,190	966	2,550	3,155	407
25-Oct	4,331	24,165	28,496	12,622		41,118	1,663	640	6,091	46,977	53,068	-10,455	42,613	1,407	1,612	640	2,378	3,018	409	4,361	3,426	409
26-Oct	5,743	42,484	48,226	-8,057		40,170	2,540	1,651	7,135	28,323	35,458	-1,944	33,514	1,397	1,869	530	1,803	2,333	875	3,202	3,209	394
27-Oct	6,240	60,482	66,722	-9,171	215	57,551	2,859	2,287	8,243	52,489	60,732	-16,336	44,396	2,001	222	633	1,879	2,512	407	4,061	2,919	699
28-Oct	5,155	40,703	45,858	-1,337		44,521	1,640	1,136	6,329	30,735	37,064	-4,270	32,793	1,009	224	592	1,479	2,071	-333	4,157	1,737	163
29-Oct	7,074	42,916	49,990	2,670		52,660	4,407	2,864	7,981	29,597	37,578	16,852	54,430	3,966		751	1,979	2,730	921		3,651	1,075
30-Oct	7,774	42,664	50,437	-12,827	281	37,610	2,429	1,822	8,770	20,671	29,441	3,208	32,649	1,417	216	825	1,310	2,135	-7	5,227	2,129	1,069
31-Oct	6,130	39,634	45,764	-7,692		38,072	2,943	1,558	8,126	30,722	38,849	-14,178	24,671	1,385	1,108	518	1,583	2,101	1,005	4,829	3,107	1,368
	Average loadings used due to no samples for that day.																					
TOTAL	175,023	1,373,003	1,548,026	-161,870	3,788	1,386,155	67,616	47,377	199,195	933,662	1,132,857	-1,744	1,131,113	44,806	46,206	18,596	54,377	72,973	21,192	116,718	94,165	17,113
Week 1	5,109	45,546	50,656	-5,483	344	45,172	2,047	1,503	5,644	31,982	37,626	-1,993	35,633	1,213	1,029	563	1,850	2,413	700	3,902	3,113	559
Week 2	5,542	45,368	50,910	-3,518	672	47,393	2,166	1,535	6,219	28,306	34,525	3,916	38,442	1,621	2,569	601	1,749	2,351	816	3,895	3,167	673
Week 3	5,439	46,795	52,234	-8,734	339	43,501	1,962	1,468	5,757	25,924	31,680	1,098	32,778	1,257	1,055	602	1,643	2,244	865	4,496	3,109	344
Week 4	5,915	40,546	46,462	-2,840	399	43,622	2,378	1,599	7,282	35,598	42,881	-4,110	38,771	1,774	1,759	591	1,830	2,422	372	2,944	2,794	367
Monthly	5,646	44,290	49,936	-5,222	421	44,715	2,181	1,528	6,426	30,118	36,544	-56	36,488	1,445	1,540	600	1,754	2,354	684	3,891	3,038	552
Min =	1959	24165	28496	-19390	215	29,118	1,414	640	1,912	19,104	24,118	-16,336	18,305	761	93	212	1,310	1,909	-333	415	1,737	115
Max =	8460	73544	79058	19232	688	63,259	4,407	2,864	10,642	52,489	60,732	17,999	58,584	3,966	4,607	906	2,378	3,018	1,667	6,306	4,185	1,738
								3,336						7,130								1,000
								5,004						10,696								

Print Date: 11/16/2011

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Oct								
2-Oct								
3-Oct								
4-Oct	< 0.00010	< 0.00291	0.00020	0.01957	0.00050	# 0.06347	< 0.00010	< 0.01509
5-Oct	< 0.00010	< 0.00288	0.00020	0.02075	0.00010	0.01325	< 0.00010	< 0.01265
6-Oct								
7-Oct								
8-Oct								
9-Oct								
10-Oct								
11-Oct	0.00010	0.00263	< 0.00010	< 0.00959	0.00010	0.01222	< 0.00010	< 0.01300
12-Oct								
13-Oct								
14-Oct								
15-Oct								
16-Oct								
17-Oct								
18-Oct	< 0.00010	< 0.00275	0.00020	0.01975	0.00010	0.01263	< 0.00010	< 0.01325
19-Oct								
20-Oct								
21-Oct								
22-Oct								
23-Oct								
24-Oct								
25-Oct	0.00010	0.00279	0.00050	0.04833	0.00020	0.02492	< 0.00010	< 0.01279
26-Oct								
27-Oct								
28-Oct								
29-Oct								
30-Oct								
31-Oct								
Total	0.00050	0.01396	0.00120	0.11799	0.00100	0.12648	0.00050	0.06679
Week 1	< 0.00010	< 0.00289	0.00020	0.02016	0.00030	0.03836	< 0.00010	< 0.01387
Week 2	0.00010	0.00263	< 0.00010	< 0.00959	0.00010	0.01222	< 0.00010	< 0.01300
Week 3	< 0.00010	< 0.00275	0.00020	0.01975	0.00010	0.01263	< 0.00010	< 0.01325
Week 4	0.00010	0.00279	0.00050	0.04833	0.00020	0.02492	< 0.00010	< 0.01279
Monthly	< 0.00010	< 0.00279	< 0.00024	< 0.02360	0.00020	0.02530	< 0.00010	< 0.01336
Min =	< 0.00010	< 0.00263	0.00010	0.00959	0.00010	0.01222	< 0.00010	< 0.01265
Max =	0.00010	0.00291	0.00050	0.04833	0.00050	0.06347	< 0.00010	< 0.01509
							0.00023	0.055
							0.00046	

October 2011 — City of Reading Wastewater Treatment Plant — Laboratory Process Control Data

	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent							
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-Oct	145	172	7.6	17.6	460	284	7.2	19.5	392	260	19.1	-110	20	-0.1	282	280	19.0	7.2	6.8	22.9	17.55	230	52	19.6	0.1	6.8	34	17	13.8		2	7.4	27	12
2-Oct	242	212	7.5	18.2	340	240	7.1	20.2	318	234	19.7	-80	-42	2.0	238	192	21.7	7.0	6.0	20.6	17.90	208	49	16.4	0.3	6.8	42	22	11.5		1	7.5	23	11
3-Oct	115	162	7.3	18.6	338	262	7.4	18.1	289	240	18.2	41	108	7.4	330	348	25.6	7.3	4.7	21.3	16.61	202	81	21.8	0.3	6.9	28	21	15.3	300	2	7.4	23	20
4-Oct	180	206	7.6	17.3	450	308	6.9	15.0	388	285	15.5	52	33	7.6	440	318	23.1	7.0	5.4	21.5	15.22	325	89	20.4	0.1	6.5	82	43	13.3		1	7.4	34	28
5-Oct	202	178	7.6	19.5	550	350	7.2	16.6	474	313	17.2	-84	-47	8.9	390	266	26.1	7.1	3.5	22.0	15.89	225	55	22.5	0.1	6.7	46	39	16.1	300	1	7.4	18	23
6-Oct	160	208	7.7	20.5	375	338	7.1	17.0	327	309	17.8	28	-123	10.8	355	186	28.6	7.0	5.8	21.5	14.94	318	73	23.1	0.0	6.7	45	38	17.5		2	7.5	25	19
7-Oct	155	196	8.2	21.9	580	396	7.1	17.4	486	352	18.4	-128	-72	1.0	358	280	19.4	7.0	3.8	22.1	14.04	260	58	22.6	0.0	6.6	45	31	16.5	320	3	7.4	24	11
8-Oct	135	110	7.6	21.2	440	220	7.4	17.2	373	196	18.1	-35	88	1.3	338	284	19.4	7.0	5.3	21.4	14.76	238	40	18.9	0.1	6.6	44	24	12.4		4	7.4	24	7
9-Oct	130	174	7.2	21.1	500	278	7.1	17.4	415	254	18.3	-5	42	2.8	410	296	21.1	7.1	5.1	21.5	14.26	ns	ns	ns	0.1	7.0	34	28	14.0		3	7.1	14	22
10-Oct	298	256	7.6	20.1	362	382	7.2	20.3	348	354	20.3	152	-36	3.1	500	318	23.4	7.3	6.6	21.4	15.17	170	73	20.7	ns	ns	39	33	13.3	320	3	7.4	25	21
11-Oct	268	264	7.7	25.0	530	308	7.1	16.5	474	299	18.3	-64	-35	12.6	410	264	30.9	7.4	6.0	22.6	14.65	302	71	27.4	0.2	6.8	55	31	17.4		1	6.5	26	15
12-Oct	190	264	7.9	22.1	490	280	7.1	17.3	425	277	18.3	-147	-79	2.1	278	198	20.4	6.8	5.3	23.4	15.69	245	68	23.8	0.1	6.7	56	43	15.0	300	2	7.2	ns	ns
13-Oct	215	268	7.6	23.0	540	202	7.3	18.6	472	216	19.5	-157	134	11.2	315	350	30.7	7.2	7.2	22.0	14.37	235	63	25.6	0.2	6.5	30	14	15.8		3	7.0	ns	ns
14-Oct	165	226	7.6	19.2	310	272	7.1	14.0	281	263	15.0	41	87	10.0	322	350	25.0	6.9	4.8	21.7	20.07	175	95	20.5	0.1	6.5	30	41	13.8	300	1	7.1	35	38
15-Oct	190	192	7.6	20.7	315	224	7.4	16.1	282	216	17.3	-27	26	1.1	255	242	18.4	7.1	9.0	19.1	15.72	155	43	18.1	1.1	6.9	32	19	12.3		4	7.2	22	9
16-Oct	205	200	7.7	22.2	380	242	7.4	16.7	365	238	17.2	-103	-4	3.6	262	234	20.8	7.1	9.4	17.8	13.33	195	46	18.4	0.9	7.0	ns	ns	ns		5	7.3	33	27
17-Oct	200	226	8.2	21.5	450	260	7.2	17.0	371	249	18.4	-36	95	10.1	335	344	28.5	7.4	5.0	21.6	16.05	210	49	21.7	0.2	7.0	38	31	15.2	300	7	7.0	26	18
18-Oct	218	172	7.7	22.8	490	278	7.4	17.6	431	255	18.7	-41	43	9.5	390	298	28.2	7.0	5.0	21.4	15.14	252	55	23.0	0.1	6.8	36	30	15.4		2	7.4	40	21
19-Oct	155	240	7.5	17.9	365	194	7.1	14.9	316	205	15.6	-108	-81	8.6	208	124	24.2	7.0	6.2	21.0	17.70	170	42	20.0	6.1	6.6	54	39	15.1	320	3	7.3	41	42
20-Oct	190	198	7.5	19.0	690	274	6.9	15.5	583	258	16.2	-143	-30	9.1	440	228	25.3	7.4	5.2	20.9	16.26	252	65	20.5	0.1	6.8	30	25	13.1		3	7.5	39	61
21-Oct	160	130	7.7	21.9	580	352	7.2	17.3	487	303	18.3	-7	21	3.9	480	324	22.2	6.9	5.8	20.7	14.36	255	64	21.5	0.7	6.6	19	15	14.5	260	3	7.4	22	35
22-Oct	318	400	7.3	21.8	390	202	7.3	19.8	374	245	20.2	4	149	1.8	378	394	22.0	7.0	4.8	21.3	14.53	212	61	19.8	0.1	6.8	26	24	15.5		4	7.3	27	26
23-Oct	205	238	7.4	21.3	392	448	7.2	18.3	351	402	19.0	7	-10	0.5	358	392	19.5	7.1	5.3	20.8	15.03	210	66	18.5	0.1	6.8	26	24	13.9		5	7.3	22	17
24-Oct	222	228	7.8	22.0	433	294	7.3	17.1	386	279	18.2	-126	-103	8.0	260	176	26.2	7.1	5.0	21.0	14.44	230	63	23.3	0.1	6.7	25	21	18.1	280	4	7.7	25	23
25-Oct	155	218	7.8	22.9	250	486	ns	24.6	229	426	24.2	101	-84	3.3	330	342	27.5	7.0	5.5	21.7	14.94	170	55	24.8	0.1	6.7	27	25	18.5		2	7.3	23	11
26-Oct	235	292	7.8	21.7	450	300	7.3	19.1	406	298	19.6	-68	-16	7.4	338	282	27.0	7.1	5.7	20.5	14.25	230	43	22.5	0.1	6.6	38	28	17.5	300	4	7.4	28	10
27-Oct	215	284	7.7	21.8	560	486	7.3	17.4	487	443	18.3	-67	-119	3.0	420	324	21.3	6.9	4.1	20.6	16.43	212	50	26.9	0.1	6.6	50	45	16.9		3	7.1	30	15
28-Oct	202	248	7.8	23.2	490	370	7.3	17.8	422	341	19.1	-12	-39	-3.1	410	302	16.0	7.0	5.8	20.4	13.02	228	24	18.7	0.1	6.6	30	25	14.8	280	0	7.4	23	13
29-Oct	195	220	7.3	20.7	232	160	6.7	10.7	226	170	12.3	12	76	4.2	238	246	16.5	6.8	7.2	20.5	26.53	170	46	15.0	0.1	6.5	45	49	12.9		4	7.2	ns	ns
30-Oct	195	220	ns	20.7	355	172	7.3	10.9	315	184	13.3	-80	20	0.0	235	204	13.3	7.2	11.4	18.5	19.19	155	40	12.4	2.0	7.0	48	71	8.6		5	7.1	ns	ns
31-Oct	175	232	7.2	14.8	338	262	7.3	13.5	301	255	13.8	-51	-93	6.6	250	162	20.4	7.6	8.8	18.3	18.26	180	61	17.9	1.5	6.9	33	31	13.3	240	5	7.5	20	11
	Average concentrations used due to no samples for that day.																																	
TOTAL	6035	6834	228.8	642.2	13425	9124	216	529.4	11794	8618	553.7	-1241	-70	158.0	10553	8548	711.7	###	###	652.0	496.30	6619	1740	626.3	14.8	###	1167	927	441.3	3820.0	89.1	226.1	719	566
Week 1	171	191	7.6	19.1	442	311	7.1	17.7	382	284	18.0	-40	-17	5.4	342	267	23.4	7.1	5.2	21.7	16.02	253	65	20.9	0.1	6.7	46	30	14.9	306.7	1.7	7.4	25	18
Week 2	200	223	7.6	21.7	453	277	7.2	17.3	398	265	18.3	-31	29	6.2	368	294	24.4	7.1	5.7	22.0	15.57	228	68	22.8	0.1	6.7	41	31	14.5	306.7	2.2	7.1	25	21
Week 3	188	194	7.7	20.9	467	261	7.2	16.4	405	246	17.4	-66	10	6.5	339	256	23.9	7.1	6.5	20.4	15.51	213	52	20.5	1.3	6.8	35	27	14.3	293.3	3.7	7.3	32	30
Week 4	222	273	7.7	22.1	424	369	7.3	19.2	379	348	19.8	-23	-32	3.0	356	316	22.8	7.0	5.2	20.9	14.66	213	52	22.1	0.1	6.7	32	27	16.5	286.7	3.0	7.4	25	16
Monthly	195	220	7.6	20.7	433	294	7.2	17.1	380	278	17.9	-40	-2	5.1	340	276	23.0	7.1	6.0	21.0	16.01	221	58	20.9	0.5	6.7	39	31	14.7	293.8	2.9	7.3	27	21
Min =	115	110	7.2	15	232	160	6.7	11	226	170	12.3	-157	-123	-3.1	208	124	13.3	6.8	3.5	17.8	13.02	155	24	12.4	0.0	6.5	19	14	8.6	240.0	0.3	6.5	14	7
Max =	318	400	8.2	25	690	486	7.4	25	583	443	24.2	152	149	12.6	500	394	30.9	7.6	11.4	23.4	26.53	325	95	27.4	6.1	7.0	82	71	18.5	320.0	7.0	7.7	41	61
									%Removal						%Removal																			
									96.09	96.50	79.81				95.63	96.47	84.29																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	DO	chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	DO	Nitrite	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
9.2		5	130	7.4	20	8	10	2.2			7.0		7.6		34.0	915.0
7.7		5	100	7.6	25	11	9	1.7			7.3		7.5	62.0	22.0	1270.0
10.4	260	6	120	7.2	14	7	11	3.8	200	10.1	7.6	0.289	7.6		144.0	830.0
11.9		6	155	7.5	17	15	10	5.1			6.8		7.5		434.0	840.0
11.0	240	4	155	7.4	19	14	6	3.2	260		6.8		7.5		432.0	845.0
13.6		6	165	7.4	24	15	11	6.8			7.2		7.5	80.0	234.0	900.0
14.3	260	7	140	7.4	18	11	4	6.5	180		7.1		7.5		366.0	815.0
9.3		5	125	7.4	18	11	10	2.4			6.8		7.5		1830.0	328.0
11.0		4	120	7.1	18	14	8	2.5			7.0		7.2	120.0	842.0	347.0
10.5	240	5	130	7.3	22	12	9	4.3	180	5.7	7.4	0.428	7.8		223.0	1030.0
11.0		1	115	7.2	25	15	8	5.7			6.9		7.7		337.0	1025.0
ns	240	4	ns	7.2	20	17	3	5.4	200		6.4		7.3		380.0	2005.0
ns		5	ns	7.0	16	12	2	2.8			7.7		7.3	100.0	503.0	510.0
11.9	240	4	120	7.0	23	14	19	7.4	180		6.6		7.4		308.0	1015.0
3.9		7	105	7.2	15	9	6	1.4			7.1		7.4		120.0	1170.0
7.3		7	115	7.4	18	12	9	1.3			7.6		7.4	72.0	62.0	1395.0
9.8	220	5	120	7.4	23	15	9	3.1	180	5.4	7.8	0.482	7.8		310.0	840.0
9.1		6	150	7.3	19	13	5	3.1			7.0		7.4		232.0	920.0
8.6	300	5	115	7.4	17	11	9	4.9	200		6.7		7.3		220.0	835.0
7.9		6	125	7.3	18	13	10	2.7			7.0		7.5	68.0	276.0	860.0
8.6	220	5	145	7.5	16	14	11	1.8	200		7.8		7.4		410.0	955.0
9.2		6	135	7.3	17	13	6	2.3			7.3		7.4		1032.0	210.0
9.2		5	145	7.2	13	10	8	2.6			7.4		7.4	120.0	786.0	384.0
12.7	240	6	135	7.3	16	9	10	3.4	200	8.4	7.2	0.662	7.4		454.0	457.0
13.1		8	125	7.4	17	7	11	3.6			7.5		7.4		318.0	860.0
12.3	240	6	125	7.4	24	15	9	3.5	160		7.4		7.3		426.0	730.0
13.4		5	135	7.0	33	18	11	5.8			6.4		7.3	60.0	62.0	1135.0
8.5	200	5	135	7.4	18	12	7	1.4	180		6.9		7.3		60.0	1115.0
ns		7	ns	7.5	24	12	11	4.1			8.5		7.5		ns	ns
ns		6	ns	7.4	13	10	7	4.7			6.8		7.3	65.0	50.0	1210.0
7.8	200	6	140	7.5	20	10	4	7.6	200	8.4	7.2	0.580	7.5		200.0	872.0
273.1	3100.0	168.8	3525.0	227.0	600	379	263	117.0	2520.0	38.0	221.9	2.441	230.5	747.0	11107.0	26623.0
11.2	253.3	5.8	137.9	7.4	20	12	9	4.2	213.3	10.1	7.1	0.289	7.5	71.0	238.0	916.4
10.7	240.0	4.0	122.0	7.2	20	14	8	4.4	186.7	5.7	7.0	0.428	7.4	110.0	631.9	894.3
7.9	246.7	5.9	125.0	7.4	18	12	8	2.6	193.3	5.4	7.3	0.482	7.5	70.0	232.9	996.4
11.2	226.7	5.7	133.6	7.3	20	12	9	3.2	180.0	8.4	7.1	0.662	7.4	90.0	448.3	698.7
10.1	238.5	5.4	130.6	7.3	19	12	8	3.8	193.8	7.6	7.2	0.488	7.4	83.0	370.2	887.4
3.9	200.0	1.3	100.0	7.0	13	7	2	1.3	160.0	5.4	6.4	0.289	7.2	60.0	22.0	210.0
14.3	300.0	7.8	165.0	7.6	33	18	19	7.6	260.0	10.1	8.5	0.662	7.8	120.0	1830.0	2005.0

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		October 2011																
		Flow (MGD)											On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
1-Oct	13.750	2.419	0.641	3.800	OOS	17.550	19.000	8.430	6.080	0.373	48.03	34.64						
2-Oct	13.870	2.436	0.706	4.030	OOS	17.900	19.930	8.260	5.750	0.509	46.15	32.12						
3-Oct	12.980	2.291	0.740	3.630	OOS	16.610	17.980	8.380	5.970	0.634	50.45	35.94						
4-Oct	11.730	2.070	0.572	3.490	OOS	15.220	18.090	8.430	5.930	0.612	55.39	38.96						
5-Oct	12.440	2.214	0.820	3.450	OOS	15.890	15.170	8.170	5.610	0.593	51.42	35.31						
6-Oct	11.590	1.969	0.619	3.350	OOS	14.940	16.620	8.460	5.930	0.638	56.63	39.69						
7-Oct	10.920	1.996	0.641	3.120	OOS	14.040	14.380	8.230	5.880	0.211	58.62	41.88						
8-Oct	11.530	2.020	0.571	3.230	OOS	14.760	15.100	8.360	5.730	0.287	56.64	38.82						
9-Oct	10.970	2.010	0.667	3.290	OOS	14.260	17.050	8.200	5.580	0.656	57.50	39.13						
10-Oct	11.850	2.181	0.698	3.320	OOS	15.170	17.010	8.430	5.620	0.618	55.57	37.05						
11-Oct	11.500	2.006	0.703	3.150	OOS	14.650	15.590	8.640	5.750	0.701	58.98	39.25						
12-Oct	12.280	2.091	0.692	3.410	OOS	15.690	17.490	8.450	5.700	0.289	53.86	36.33						
13-Oct	11.370	2.021	0.690	3.000	OOS	14.370	15.460	8.350	5.110	0.825	58.11	35.56						
14-Oct	16.060	2.261	0.703	4.010	OOS	20.070	24.120	8.150	3.750	0.583	40.61	18.68						
15-Oct	11.570	2.142	0.542	4.150	OOS	15.720	19.150	8.170	6.020	0.376	51.97	38.30						
16-Oct	12.180	2.267	0.695	1.146	OOS	13.326	13.040	8.580	5.960	0.542	64.39	44.72						
17-Oct	11.000	1.848	0.626	5.054	OOS	16.054	17.840	8.750	5.870	0.690	54.50	36.56						
18-Oct	11.840	2.106	0.687	3.300	OOS	15.140	15.890	8.540	5.880	0.685	56.41	38.84						
19-Oct	13.560	2.451	0.699	4.140	OOS	17.700	21.410	8.750	4.120	0.690	49.44	23.28						
20-Oct	12.780	2.145	0.684	3.480	OOS	16.260	18.650	8.270	5.620	0.620	50.86	34.56						
21-Oct	11.180	1.877	0.585	3.180	OOS	14.360	13.520	8.230	5.560	0.271	57.31	38.72						
22-Oct	11.340	2.032	0.563	3.190	OOS	14.530	15.050	8.290	5.470	0.237	57.05	37.65						
23-Oct	11.770	2.152	0.651	3.260	OOS	15.030	15.010	8.470	5.370	0.582	56.35	35.73						
24-Oct	11.250	1.933	0.647	3.190	OOS	14.440	16.450	8.610	5.350	0.669	59.63	37.05						
25-Oct	11.590	1.974	0.654	3.350	OOS	14.940	15.340	8.560	5.400	0.608	57.30	36.14						
26-Oct	11.320	1.919	0.673	2.930	OOS	14.250	15.230	11.440	6.190	0.526	80.28	43.44						
27-Oct	12.950	2.173	0.738	3.480	OOS	16.430	17.140	6.110	4.420	0.429	37.19	26.90						
28-Oct	9.960	1.510	0.493	3.060	OOS	13.020	15.130	8.850	6.220	0.447	67.97	47.77						
29-Oct	22.180	3.145	0.796	4.350	OOS	26.530	26.420	8.080	1.450	0.298	30.46	5.47						
30-Oct	14.410	2.886	0.661	4.780	OOS	19.190	24.270	9.060	6.020	0.518	47.21	31.37						
31-Oct	14.060	2.461	0.648	4.200	OOS	18.260	20.760	8.070	5.580	0.664	44.19	30.56						
Total	387.780	67.006	20.505	108.520	0.000	496.300	543.290	261.770	168.890	16.381	1670.45	1090.43						
Week 1	12.469	2.199	0.677	3.553	#DIV/0!	16.021	17.310	8.337	5.879	0.510	52.38	36.94						
Week 2	12.223	2.084	0.675	3.344	#DIV/0!	15.567	17.403	8.369	5.320	0.566	54.47	34.97						
Week 3	12.016	2.119	0.645	3.493	#DIV/0!	15.509	17.071	8.470	5.576	0.553	54.98	36.43						
Week 4	11.454	1.956	0.631	3.209	#DIV/0!	14.663	15.621	8.619	5.489	0.500	59.40	37.81						
Monthly	12.509	2.161	0.661	3.501	#DIV/0!	16.010	17.525	8.444	5.448	0.528	53.89	35.18						
Min =	9.960	1.510	0.493	1.146	0.000	13.020	13.040	6.110	1.450	0.211	30.46	5.47						
Max =	22.180	3.145	0.820	5.054	0.000	26.530	26.420	11.440	6.220	0.825	80.28	47.77						

Print Date: 11/16/2011

	October 2011			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Oct															
2-Oct															
3-Oct	7.0	873	4040	7.0	973	5460	7.1	248	4440	7.1	396	5140	7.1	479	4400
4-Oct															
5-Oct	7.2		4400	7.2		5680	7.2		4620	7.2		5100	7.1		4840
6-Oct															
7-Oct	7.2	125	4840	7.2	377	5380	7.2	154	5400	7.1	194	4920	7.1	512	4680
8-Oct															
9-Oct															
10-Oct	7.2	208	4860	7.2	1096	5020	7.1	283	4760	7.1	329	4920	6.9	379	240
11-Oct															
12-Oct	7.2	54	5060	7.0	1198	4520	7.2	138	5000	7.2	306	5460	7.1	56	5080
13-Oct															
14-Oct	7.2		5360	7.0		5080	7.3		5160	7.2		5060	7.1		5240
15-Oct															
16-Oct															
17-Oct	6.9	792	3180	7.1	417	5140	7.1	150	5240	7.2	354	4860	7.1	188	5480
18-Oct															
19-Oct	7.2		5600	7.1		5480	7.3		4740	7.2		5360	7.2		5540
20-Oct															
21-Oct	7.1	542	5140	6.9	1414	4220	7.2	319	5220	7.2	854	4700	7.2	133	5280
22-Oct															
23-Oct															
24-Oct	7.2	346	5540	7.2	377	5120	7.3	329	5120	6.9	1573	1380	7.1	360	4860
25-Oct															
26-Oct	7.2		5920	6.9		4380	7.3		5380	7.2		5160	7.1		2980
27-Oct															
28-Oct	7.0	912	3900	7.0	950	4680	7.2	252	5260	7.2	244	5200	7.1	471	4700
29-Oct															
30-Oct															
31-Oct	7.2	629	5080	6.9	862	4060	7.2	342	5600	7.2	1062	5480	6.9	1304	600
Total	92.8	4481	62920	91.8	7664	64220	93.5	2215	65940	92.9	5312	62740	92.2	3882	53920
Week 1	7.1	499	4427	7.2	675	5507	7.1	201	4820	7.1	295	5053	7.1	496	4640
Week 2	7.2	131	5093	7.1	1,147	4873	7.2	211	4973	7.2	318	5147	7.1	218	3520
Week 3	7.1	667	4640	7.0	916	4947	7.2	235	5067	7.2	604	4973	7.2	161	5433
Week 4	7.1	629	5120	7.0	664	4727	7.3	291	5253	7.1	909	3913	7.1	416	4180
Monthly	7.1	498	4840	7.1	852	4940	7.2	246	5072	7.1	590	4826	7.1	431	4148
Min =	6.9	54	3180	6.9	377	4060	7.1	138	4440	6.9	194	1380	6.9	56	240
Max =	7.2	912	5920	7.2	1414	5680	7.3	342	5600	7.2	1573	5480	7.2	1304	5540

Print Date: 11/16/2011

October 2011
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Oct	0.03	0.03	0.01	0.01	0.02	0.00	0.02	
2-Oct	0.01	0.01	0.00	0.01	0.01	0.02	0.01	
3-Oct	0.02	0.00	0.01	0.01	0.01	0.01	0.01	
4-Oct	0.02	0.03	0.02	0.01	0.00	0.01	0.02	
5-Oct	0.02	0.02	0.01	0.24	0.22	0.02	0.09	
6-Oct	0.37	0.02	0.30	0.00	0.02	0.02	0.12	
7-Oct	0.02	0.02	0.01	0.02	0.00	0.01	0.01	
8-Oct	0.01	0.02	0.01	0.02	0.02	0.01	0.02	
9-Oct	0.02	0.02	0.02	0.01	0.01	0.00	0.01	
10-Oct	0.01	0.02	0.02	0.02	0.01	0.01	0.02	
11-Oct	0.02	0.02	0.01	0.02	0.00	0.03	0.02	
12-Oct	0.03	0.01	0.01	0.02	0.02	0.01	0.02	
13-Oct	0.01	0.02	0.00	0.01	0.00	0.02	0.01	
14-Oct	0.02	0.01	0.01	0.03	0.01	0.01	0.02	
15-Oct	0.00	0.03	0.00	0.03	0.02	0.02	0.02	
16-Oct	0.03	0.03	0.00	0.02	0.03	0.02	0.02	
17-Oct	0.02	0.00	0.03	0.05	0.01	0.02	0.02	
18-Oct	0.03	0.03	0.02	0.02	0.01	0.04	0.03	
19-Oct	0.03	0.02	0.01	0.02	0.02	0.02	0.02	
20-Oct	0.01	0.01	0.02	0.03	0.00	0.02	0.02	
21-Oct	0.02	0.01	0.02	0.00	0.00	0.02	0.01	
22-Oct	0.03	0.01	0.02	0.00	0.03	0.02	0.02	
23-Oct	0.03	0.01	0.00	0.03	0.03	0.03	0.02	
24-Oct	0.03	0.01	0.01	0.02	0.01	0.02	0.02	
25-Oct	0.03	0.02	0.00	0.31	0.02	0.03	0.07	
26-Oct	0.03	0.00	0.03	0.01	0.03	0.03	0.02	
27-Oct	0.02	0.03	0.01	0.02	0.12	0.02	0.04	
28-Oct	0.03	0.03	0.01	0.00	0.04	0.02	0.02	
29-Oct	0.04	0.03	0.02	0.01	0.13	0.01	0.04	
30-Oct	0.01	0.02	0.01	0.01	0.02	0.01	0.01	
31-Oct	0.05	0.02	0.01	0.02	0.02	0.01	0.02	
Average	0.03	0.02	0.02	0.03	0.03	0.02	0.03	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.37	0.03	0.30	0.31	0.22	0.04		

Dissolved Oxygen -October 2011

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
10/1/2011	7.0	7.3	7.3	7.2	7.1	7.2	7.4	7.0	
10/2/2011	7.1	7.4	7.5	7.3	7.5	7.4	7.5	7.1	
10/3/2011	7.6	7.7	7.9	7.7	7.5	7.5	7.7	7.5	
10/4/2011	7.5	7.6	7.6	7.4	6.7	7.0	7.5	6.7	
10/5/2011	7.2	7.4	7.5	7.5	7.3	7.3	7.1	7.1	
10/6/2011	7.5	7.5	7.5	7.6	7.5	7.4	7.5	7.4	
10/7/2011	7.5	7.5	7.4	7.6	7.6	7.3	7.4	7.3	
10/8/2011	7.5	7.4	7.4	7.4	7.5	7.4	7.3	7.3	
10/9/2011	7.3	7.3	7.4	7.5	7.2	7.1	7.5	7.1	
10/10/2011	7.0	7.0	7.2	7.2	7.1	7.0	7.1	7.0	
10/11/2011	7.0	7.2	7.5	7.4	7.0	7.0	7.0	7.0	
10/12/2011	7.0	6.9	7.0	7.1	7.2	7.0	6.9	6.9	
10/13/2011	7.1	7.1	7.2	7.3	7.2	7.2	7.6	7.1	
10/14/2011	7.3	7.3	7.2	6.9	6.5	6.8	7.2	6.5	
10/15/2011	7.1	7.4	7.7	8.0	7.7	7.7	7.5	7.1	
10/16/2011	7.8	8.0	8.2	8.2	7.8	7.6	8.1	7.6	
10/17/2011	7.6	7.8	8.1	7.7	7.5	7.4	7.8	7.4	
10/18/2011	7.5	7.5	7.8	7.6	7.4	7.2	7.3	7.2	
10/19/2011	7.2	7.1	7.1	7.0	6.9	6.9	7.0	6.9	
10/20/2011	7.0	6.9	7.1	7.0	7.2	7.3	6.9	6.9	
10/21/2011	7.3	7.4	7.9	8.0	7.7	7.5	7.9	7.3	
10/22/2011	7.5	7.5	7.9	8.0	7.5	7.4	7.5	7.4	
10/23/2011	7.5	7.5	7.7	7.7	7.4	7.4	7.6	7.4	
10/24/2011	7.4	7.4	7.6	7.6	7.5	7.3	7.4	7.3	
10/25/2011	7.3	7.3	7.5	7.6	7.4	7.3	7.7	7.3	
10/26/2011	7.3	7.3	7.5	7.4	7.4	7.1	7.3	7.1	
10/27/2011	7.2	7.2	7.1	7.1	6.9	7.0	7.0	6.9	
10/28/2011	7.3	7.2	7.7	7.9	7.8	7.9	7.2	7.2	
10/29/2011	7.8	7.9	8.1	6.7	6.5	7.1	8.9	6.5	
10/30/2011	7.2	7.4	7.4	7.5	7.3	7.2	7.9	7.2	
10/31/2011	7.1	7.6	7.6	7.8	7.6	7.4	7.8	7.1	
Min	6.96	6.90	7.00	6.66	6.50	6.80	6.9	Min	6.50
Max	7.81	8.00	8.20	8.20	7.81	7.86	8.9	Max	7.60
								Avg	7.12

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* October 2011

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 20.00	X 0.01	= 0.00
0.00	X 20.00	X 0.01	= 0.00
0.00	X 20.00	X 0.01	= 0.00
672.30	X 20.00	X 0.01	= 134.46
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 134.46

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	134.46
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

_____
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

_____
Date

City of Reading | 3-C Watershed | *for the Month* October 2011

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	09/01/2011	TO	09/30/2011

DMR Mailing ZIP [illegible]
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

RECEIVED
EPA REGION III
OCT 25 2011
WATER PROTECTION DIVISION
(3WP00)

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	52	******		0	DAILY	COMP 24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	5.5	******	******		0	7/DAILY	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	6.8	******	8.1		0	DAILY	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1909	3400		******	10.4	12.0		0	DAILY	COMP 24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	543	******		******	3.0	******		0	DAILY	COMP 24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	21.3	55.63		******	******	******	******	0	CONTINUOUS	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.06	******		0	2/SHIFT	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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	Ralph E. Johnson	610-655-6258		10/20/11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		**MM/DD/YYYY**
FROM	09/01/2011	**TO**	09/30/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.02013	******		******	<0.00010	******		0	WEEKLY	COMP 24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	10	******		0	DAILY	GRAB
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	200 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1225	2625		******	6.3	8.0		0	DAILY	COMP 24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
RALPH E. JOHNSON, P.E. WASTEWATER MANAGER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258	10/20/11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code / NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

	September 2011					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Sep	22.9	13	9	11	4.4	15.84	6.4	7.5	0.70		18	75	0.00	60	85
2-Sep	22.8	14	10	8	2.7	15.62	6.6	7.5	0.50		28	75	0.00	67	84
3-Sep	22.8	10	8	8	0.7	15.28	6.1	7.6	0.70		15	75	0.00	67	86
4-Sep	23.4	10	5	8	0.4	17.37	7.0	7.5	0.59		13	75	0.03	70	89
5-Sep	22.5	19	16	16	3.4	24.61	6.9	8.1	0.50		2	65	3.28	65	80
6-Sep	21.6	12	9	11	1.4	44.96	5.5	7.1			3	33	1.94	62	65
7-Sep	21.7	10	8	13	2.6	52.11	5.6	7.3			50	35	2.90	64	74
8-Sep	21.8	12	10	11	3.9	55.63	5.5	7.0	0.84		192	35	0.57	67	77
9-Sep	22.1	10	8	10	1.7	33.85	6.1	6.8			32,667	25	0.00	70	92
10-Sep	21.1	4	3	8	3.8	24.80	6.5	7.7	1.14		117	33	0.46	68	90
11-Sep	20.9	5	3	12	2.7	24.18	6.9	7.0			51	42	0.02	65	80
12-Sep	20.9	10	8	9	4.7	25.58	6.7	7.3	1.3		26	50	0.00	64	87
13-Sep	21.4	8	5	11	6.3	5.06	6.9	7.4	1.10		16	40	0.00	62	87
14-Sep	22.8	5	4	8	0.7	4.79	7.0	7.4			11	33	0.11	65	91
15-Sep	22.1	4	3	12	0.3	7.12	6.2	7.4	1.08		124	33	0.69	50	72
16-Sep	20.4	5	4	8	6.9	22.03	6.4	7.1	1.16		1	50	0.00	45	72
17-Sep	20.7	6	5	7	2.5	19.73	7.4	7.6			2	50	0.05	50	67
18-Sep	20.9	7	4	9	1.3	8.90	7.5	7.9			1	60	0.00	47	77
19-Sep	20.5	9	7	8	2.3	16.45	6.2	7.6	1.20		4	60	0.00	48	72
20-Sep	21.6	8	6	12	0.7	13.38	7.3	7.4	1.23		4	50	0.01	62	77
21-Sep	23.5	10	7	9	1.1	8.69	7.4	7.9	1.03		10	65	0.12	61	77
22-Sep	22.4	12	6	17	7.6	17.73	6.9	7.5	0.87		6	60	0.09	69	83
23-Sep	22.7	10	6	18	4.4	24.26	6.3	7.3			17	60	1.53	68	73
24-Sep	20.2	6	4	11	1.1	22.17	6.6	7.3			2	42	0.00	66	81
25-Sep	22.5	6	4	10	1.1	20.83	7.0	7.5			1	50	0.00	65	84
26-Sep	21.9	8	4	8	4.0	19.79	6.8	7.6			4	60	0.00	68	86
27-Sep	22.5	9	7	12	5.1	20.18	6.8	7.4	1.21		2	60	0.00	67	83
28-Sep	22.4	8	8	10	5.1	21.55	6.9	7.4			1	60	0.33	71	79
29-Sep	22.4	5	4	9	2.9	19.11	6.8	7.4			1	60	0.27	59	76
30-Sep	21.6	5	4	9	3.1	16.71	6.9	7.3	0.77		7	60	0.00	57	76
1-Oct		15	8	6		19.00									
						See DO profile									
TOTAL		260	189	313	88.71	638.31	###	#####	36.33	##	33396	1571	12.40		
Week 1	22.5	11	8	11	2.2	26.54	6.31	7.51	0.91		18	62	1.16	65	80
Week 2	21.6	6	5	10	3.4	24.84	6.49	7.22	1.38		4726	37	0.17	66	86
Week 3	21.4	9	6	12	2.2	13.76	6.93	7.53	1.41		21	53	0.12	52	73
Week 4	22.1	8	6	9	4.0	20.93	6.76	7.40	1.37		5	56	0.28	68	81
Monthly	21.9	8.7	6.3	10.4	3.0	21.3	6.6	7.4	1.3		10	52	0.413	62	80
	Weekly averages: 9/4-10, 9/11-17, 9/18-24 and 9/25-10/1.														
Min =	20.2	4	3	6	0.3	4.79	5.5	6.8	0.50		1	25	0.00	45	65
Max =	23.5	19	16	18	7.6	55.63	7.5	8.1	2.11		32,667	75	3.28	71	92
	Fl=Flood														
DISCHARGE LIMITATIONS															
Ave Monthly:			20	30	6		Min	6.0			200	186			
Ave Weekly:			30	45			of	to							
Inst. Max:			40	60	12		5.0	9.0				465			

Due to flooding, The effluent composite dated 9/9 was not sampled until 1355, making the sample a 28 hour composite.

Print Date: 10/19/2011

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Sep	13,493	63,693	77,185	-18,303		58,882	1,717	1,189	12,850	29,663	42,513	4,325	46,838	1,453		1,392	1,674	3066	1,738		4,804	584
2-Sep	17,219	69,342	86,561	-47,010		39,552	1,824	1,303	9,938	33,759	43,696	-31,361	12,335	1,042	0	951	1,469	2,420	2,353	0	4,773	352
3-Sep	3,453	43,550	47,003	32,820		79,823	1,274	1,019	2,601	15,000	17,602	40,659	58,260	1,019	200	546	1,573	2,118	836	4,330	2,954	87
4-Sep	4,994	46,677	51,672	1,941		53,613	1,449	724	5,216	28,784	34,000	6,453	40,453	1,159	7	558	1,741	2,299	-130	113	2,169	53
5-Sep	8,367	38,326	46,693	-14,879		31,813	3,900	3,284	11,663	38,944	50,607	-29,672	20,935	3,284		791	1,963	2,754	-85		2,668	700
6-Sep	7,990	61,079	69,069	-25,948	468	43,121	4,500	3,375	6,871	28,917	35,788	-8,415	27,373	4,125	504	513	1,354	1,867	967	8,197	2,835	517
7-Sep	9,833	32,969	42,802	2,831		45,633	4,346	3,477	13,176	26,515	39,691	27,237	66,928	5,650	301	556	1,347	1,903	1,931	4,580	3,833	1,108
8-Sep	13,181	37,305	50,486	-4,091		46,395	5,567	4,640	5,909	30,217	36,126	-12,928	23,198	5,103	1,021	517	1,194	1,711	256	4,642	1,967	1,814
9-Sep	18,428	74,307	92,734	-52,929		39,806	2,823	2,258	2,936	34,295	37,231	-22,834	14,398	2,823	96	437	1,317	1,754	191	1,649	1,945	480
10-Sep	5,154	41,152	46,306	13,675		59,981	827	620	8,968	31,369	40,337	36,191	76,528	1,655	855	515	738	1,253	776	1,013	2,029	780
11-Sep	4,695	15,471	20,166	15,125	59	35,291	1,008	605	6,010	13,305	19,315	5,691	25,006	2,420	579	601	1,609	2,210	1,077	2,390	3,287	538
12-Sep	4,944	32,969	37,913	15,848		53,761	2,133	1,707	4,450	26,515	30,965	-244	30,721	1,920	1,080	585	1,347	1,932	2,249	10,593	4,181	1,007
13-Sep	4,837	843	5,680	9,093		14,773	338	211	5,031	934	5,965	6,023	11,988	464	1,542	611	41	652	711	12,887	1,363	264
14-Sep	10,737	1,259	11,995	-8,000		3,996	200	160	4,697	787	5,485	6,023	11,508	320	1,550	608	36	644	471	6,641	1,115	28
15-Sep	6,976	5,140	12,116	-4,989	437	7,127	238	178	9,109	9,362	18,472	-892	17,580	713	537	484	179	663	466	6,715	1,128	20
16-Sep	4,201	51,341	55,542	1,414		56,956	919	735	4,840	100,580	105,420	-63,530	41,890	1,470	939	544	1,756	2,301	1,796	6,410	4,097	1,271
17-Sep	4,577	39,293	43,870	-4,707		39,162	987	823	4,969	29,799	34,769	2,748	37,517	1,152	998	562	2,083	2,646	876	4,922	3,521	403
18-Sep	5,498	12,358	17,856	2,037	461	19,893	520	297	4,398	7,893	12,291	8,640	20,932	668	333	594	638	1,232	267	7,878	1,499	96
19-Sep	6,463	36,984	43,446	-14,910		28,536	1,235	960	5,359	32,546	37,905	5,722	43,627	1,098	2,308	649	1,828	2,477	102	5,958	2,579	316
20-Sep	6,533	26,742	33,275	3,947		37,222	893	670	6,719	32,480	39,199	15,736	54,935	1,339	2,060	501	1,673	2,173	958	4,157	3,132	84
21-Sep	5,724	13,574	19,298	-10,563		8,736	725	507	5,260	8,914	14,175	-3,045	11,130	652	452	545	554	1,098	228	3,944	1,327	80
22-Sep	4,654	36,075	40,729	531	594	41,260	1,774	887	6,545	22,882	29,427	15,293	44,720	2,514	6,219	570	1,752	2,323	1,497	3,744	3,820	1,121
23-Sep	5,927	33,927	39,854	7,086		46,940	2,023	1,214	8,762	32,268	41,030	5,505	46,536	3,642	763	608	1,381	1,989	580		2,570	882
24-Sep	4,142	32,969	37,111	4,498	253	41,609	1,109	740	5,207	26,515	31,722	10,064	41,786	2,034	6,594	521	1,347	1,868	735	1,045	2,603	198
25-Sep	5,579	32,186	37,765	-2,017		35,749	1,042	695	6,398	25,257	31,655	12,137	43,792	1,737		487	1,375	1,862	1,177	5,098	3,039	195
26-Sep	3,378	44,515	47,892	3,869		51,761	1,320	660	5,675	37,071	42,746	3,983	46,729	1,320	2,477	567	2,145	2,713	2,086	11,326	4,799	665
27-Sep	3,319	15,939	19,258	18,303		37,561	1,515	1,178	5,311	19,287	24,598	10,459	35,057	2,020	2,128	564	944	1,509	1,076	5,522	2,584	853
28-Sep	3,740	22,683	26,424	-264		26,160	1,438	1,438	6,570	37,049	43,619	16,310	59,929	1,797	1,929	605	1,802	2,407	1,049	3,655	3,456	913
29-Sep	8,967	16,702	25,669	26,049	620	51,718	797	638	4,163	7,974	12,137	22,248	34,385	1,434	5,277	557	1,692	2,249	742	4,651	2,991	467
30-Sep	2,886	22,146	25,032	7,348		32,380	697	557	4,963	26,575	31,539	6,022	37,561	1,254	802	511	1,862	2,373	1,228	3,871	3,601	426
1-Oct							2,377	1,268					0	951								
	Average loadings used due to no samples for that day.																					
TOTAL	209,889	1,001,515	1,211,404	-42,194	2,893	1,169,210	49,138	36,749	194,565	795,459	990,024	94,551	1,084,574	57,281	41,549	18,053	40,413	58,467	28,204	135,933	86,671	16,303
Week 1	9,336	50,805	60,141	-9,792	468	50,348	3,345	2,625	8,902	28,797	37,700	1,318	39,018	3,400	202	758	1,589	2,347	1,087	3,444	3,434	486
Week 2	8,854	29,044	37,897	-1,611	59	36,286	832	631	5,429	19,632	25,060	2,560	27,621	1,208	960	554	897	1,451	819	5,688	2,270	702
Week 3	5,710	26,490	32,201	-3,967	449	28,233	1,183	754	5,808	31,654	37,461	-4,946	32,516	1,707	1,090	554	1,244	1,799	670	5,712	2,469	324
Week 4	4,391	31,185	35,576	4,572	423	40,149	1,312	919	6,353	28,619	34,971	10,536	45,507	1,502	3,352	560	1,535	2,096	1,171	5,065	3,267	690
Monthly	6,996	33,384	40,380	-1,406	413	38,974	1,638	1,225	6,486	26,515	33,001	3,152	36,152	1,909	1,539	602	1,347	1,949	940	5,035	2,889	543
Min =	2886	843	5680	-52929	59	3,996	200	160	2,601	787	5,485	-63,530	0	320	0	437	36	644	-130	0	1,115	20
Max =	18428	74307	92734	32820	620	79,823	5,567	4,640	13,176	100,580	105,420	40,659	76,528	5,650	6,594	1,392	2,145	3,066	2,353	12,887	4,804	1,814
		Fl=Flood																				
								3,336						7,130								1,000
								5,004						10,696								

Print Date: 10/19/2011

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Sep								
2-Sep								
3-Sep								
4-Sep								
5-Sep								
6-Sep	< 0.00010	< 0.00799	< 0.00010	< 0.02951	0.00010	0.03750	< 0.00010	< 0.03750
7-Sep	< 0.00010	< 0.00983	< 0.00010	< 0.03363	< 0.00010	< 0.04346	< 0.00010	< 0.04346
8-Sep								
9-Sep								
10-Sep								
11-Sep								
12-Sep								
13-Sep	0.00010	0.00387	0.00010	0.00035	0.00020	0.00844	< 0.00010	< 0.00422
14-Sep								
15-Sep								
16-Sep								
17-Sep								
18-Sep								
19-Sep								
20-Sep	< 0.00010	< 0.00311	0.00010	0.00972	0.00010	0.01284	< 0.00010	< 0.01116
21-Sep								
22-Sep								
23-Sep								
24-Sep								
25-Sep								
26-Sep								
27-Sep	0.00050	0.01660	0.00010	0.00670	0.00020	0.02003	< 0.00010	< 0.01683
28-Sep							< 0.00010	< 0.01797
29-Sep							< 0.00010	< 0.01594
30-Sep							< 0.00010	< 0.01394
1-Oct								
Total	0.00090	0.04140	0.00050	0.07991	0.00070	0.12227	0.00080	0.16101
Week 1	< 0.00010	< 0.00891	< 0.00010	< 0.03157	< 0.00010	< 0.04048	< 0.00010	< 0.04048
Week 2	0.00010	0.00387	0.00010	0.00035	0.00020	0.00844	< 0.00010	< 0.00422
Week 3	< 0.00010	< 0.00311	0.00010	0.00972	0.00010	0.01284	< 0.00010	< 0.01116
Week 4	0.00050	0.01660	0.00010	0.00670	0.00020	0.02003	< 0.00010	< 0.01740
Monthly	< 0.00018	< 0.00828	< 0.00010	< 0.01598	< 0.00014	< 0.02445	< 0.00010	< 0.02013
Min =	< 0.00010	< 0.00311	< 0.00010	< 0.00035	< 0.00010	< 0.00844	< 0.00010	< 0.00422
Max =	0.00050	0.01660	0.00010	0.03363	0.00020	0.04346	< 0.00010	< 0.04346
							0.00023	0.055
							0.00046	

	September 2011				City of Reading Wastewater Treatment Plant																					Laboratory Process Control Data							
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent							
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-Sep	315	300	7.6	32.5	700	326	7.0	18.4	577	318	22.9	-137	32	13.0	440	350	35.9	6.9	3.7	23.7	16.046	272	53	26.6	0.2	6.4	50	57	18.4	300	2	7.4	20	13
2-Sep	402	232	7.8	22.2	760	370	7.0	16.1	646	326	18.0	-351	-234	17.6	295	92	35.6	6.4	3.1	24.1	16.076	270	55	29.1	0.1	6.6	52	81	18.5		0	7.1	14	12
3-Sep	150	113	7.2	23.7	540	186	7.0	19.5	453	170	20.4	317	392	8.1	770	562	28.5	6.8	2.4	24.2	12.430	192	142	24.6	0.0	6.6	49	58	18.9		3	7.3	13	2
4-Sep	203	212	7.2	22.7	480	296	7.0	17.9	424	279	18.9	16	53	-1.1	440	332	17.8	6.7	0.3	24.4	14.610	ns	ns	ns	0.1	6.6	22	23	17.0		4	7.4	17	27
5-Sep	165	230	7.4	15.6	248	252	6.9	12.7	227	247	13.4	-72	-145	-0.4	155	102	13.0	6.6	4.9	22.7	24.610	ns	ns	ns	0.9	6.4	46	49	8.0		3	7.0	22	13
6-Sep	100	86	7.4	6.4	207	98	7.1	4.6	184	95	5.0	-69	-22	2.6	115	73	7.6	7.0	6.8	22.1	44.960	100	206	3.3	0.7	6.6	24	26	6.6		3	6.7	24	21
7-Sep	100	134	7.1	5.7	ns	ns	6.9	ns	98	91	4.4	7	63	4.4	105	154	8.8	6.4	6.4	21.4	52.110	100	73	3.7	1.2	6.2	23	39	5.3	200	2	6.1	16	25
8-Sep	145	65	7.0	5.7	100	81	7.0	3.2	109	78	3.7	-9	-28	0.6	100	50	4.2	5.9	3.5	21.5	55.630	100	64	7.4	0.6	5.8	Fl	Fl	Fl		3	6.6	9	6
9-Sep	295	47	7.2	7.0	338	156	7.0	6.0	328	132	6.2	-187	-81	0.7	141	51	6.9	6.7	6.1	20.6	33.850	50	28	6.9	3.6	6.8	Fl	Fl	Fl	Fl	Fl	Fl	7	30
10-Sep	100	174	6.7	10.0	265	202	6.4	4.8	224	195	6.1	66	175	3.8	290	370	9.8	6.7	5.3	21.3	24.800	100	50	9.2	0.1	6.6	Fl	Fl	Fl		4	6.9	7	30
11-Sep	100	128	7.1	12.8	100	86	6.9	10.4	100	96	11.0	75	28	5.3	175	124	16.3	6.7	5.9	22.1	24.180	100	78	12.2	0.1	6.7	Fl	Fl	Fl		3	7.0	21	16
12-Sep	120	108	7.5	14.2	ns	ns	ns	ns	178	145	9.1	74	-1	10.5	252	144	19.6	7.2	2.3	20.8	25.580	120	48	14.7	3.1	6.8	44	41	13.9		3	ns	16	9
13-Sep	125	130	7.4	15.8	240	266	ns	11.6	135	141	15.5	215	143	16.8	350	284	32.3	6.7	4.3	22.2	5.061	100	66	18.3	0.0	6.7	36	33	16.9		2	7.0	22	15
14-Sep	288	126	7.5	16.3	470	294	7.3	13.6	300	137	16.1	-200	151	11.8	100	288	27.9	7.8	3.4	21.1	4.791	ns	ns	ns	0.0	7.0	8	28	26.0	280	4	7.3	34	13
15-Sep	170	222	8.8	11.8	280	510	7.1	9.7	204	311	11.2	-84	-15	7.8	120	296	19.0	7.6	4.6	21.9	7.912	100	31	25.8	2.1	7.4	24	23	18.8		4	7.3	24	19
16-Sep	125	144	7.7	16.2	342	670	7.2	11.7	302	574	12.5	8	-346	9.8	310	228	22.3	7.7	6.2	19.5	22.030	160	48	22.0	0.1	7.4	25	23	17.2	260	5	7.6	25	21
17-Sep	140	152	7.6	17.2	298	226	7.4	15.8	267	211	16.1	-29	17	5.3	238	228	21.4	7.1	4.5	21.7	19.730	160	47	18.5	1.0	7.0	19	16	12.0		3	7.4	20	14
18-Sep	160	128	7.7	17.3	310	198	7.4	16.0	241	166	16.6	27	116	3.6	268	282	20.2	7.2	3.9	21.4	8.900	175	51	18.7	1.2	7.1	39	33	12.3		4	7.4	18	19
19-Sep	205	170	7.6	20.6	350	308	7.2	17.3	317	276	18.1	-109	42	0.7	208	318	18.8	7.4	4.9	21.5	16.450	232	51	20.5	0.1	7.0	30	17	13.2	280	1	7.5	ns	ns
20-Sep	210	216	7.6	16.1	275	334	7.2	17.2	259	305	16.9	31	123	7.5	290	428	24.4	7.2	3.5	21.6	15.390	210	57	18.5	0.1	6.7	35	27	11.9		1	7.2	25	17
21-Sep	185	170	7.6	17.6	402	264	7.3	16.4	298	219	17.0	-163	-47	3.5	135	172	20.5	7.3	0.3	21.7	7.758	165	32	24.8	0.1	6.9	38	28	18.3	300	1	7.3	22	8
22-Sep	155	218	7.6	19.0	350	222	7.2	17.0	306	221	17.5	4	115	11.2	310	336	28.7	7.4	7.4	23.8	15.959	195	63	22.1	0.2	6.9	36	23	14.5		2	7.5	24	34
23-Sep	115	170	7.7	11.8	225	214	7.1	9.2	197	203	9.8	35	27	2.9	232	230	12.7	7.3	6.0	22.6	24.260	130	44	12.2	0.1	6.7	41	54	10.2	240	1	7.2	24	48
24-Sep	105	132	7.4	13.2	ns	ns	7.3	ns	210	179	10.5	25	57	4.2	235	236	14.7	7.2	6.2	22.4	21.230	140	46	13.3	2.2	6.9	17	18	9.8		4	7.2	15	20
25-Sep	150	172	7.4	13.1	288	226	7.5	12.3	254	213	12.5	-14	81	7.9	240	294	20.4	7.2	5.8	21.3	17.860	155	42	14.8	0.2	6.9	32	21	9.5		3	7.2	ns	ns
26-Sep	100	168	7.6	16.8	305	254	7.1	14.7	266	238	15.1	22	22	11.6	288	260	26.7	7.0	4.3	22.3	21.550	160	57	21.4	0.1	6.6	21	22	16.9	260	2	7.1	28	23
27-Sep	100	160	7.7	17.0	238	288	7.2	14.1	192	246	15.1	183	104	10.7	375	350	25.8	6.8	2.7	22.6	12.010	100	61	22.4	0.1	6.7	40	34	14.9		1	7.2	30	34
28-Sep	115	202	7.6	18.6	180	294	7.2	14.3	167	275	15.2	-2	103	6.6	165	378	21.8	6.7	1.3	22.8	19.010	100	48	18.9	0.1	6.8	13	31	14.5	300	1	7.2	ns	ns
29-Sep	280	130	7.6	17.4	155	74	7.4	15.7	184	87	16.1	186	159	5.3	370	246	21.4	7.0	3.8	25.0	16.760	100	54	20.0	0.1	6.8	17	28	13.7		2	7.4	ns	ns
30-Sep	100	172	7.7	17.7	220	264	7.1	18.5	193	244	18.3	57	46	9.5	250	290	27.8	7.5	4.2	22.1	15.530	100	62	22.1	0.1	6.8	13	26	15.3	300	2	7.4	18	19
1-Oct																																		
TOTAL	5023	4811	224.5	472.0	8666	6959	199.1	358.6	7840	6417	409.0	-77.8	1131.1	201.8	7762	7548	610.8	###	###	666.4	616.3	3886	1657	472.0	18.3	###	794	859	372.5	2720	71.1	201.0	515	508
Week 1	205	187	7.4	18.4	489	255	7.0	14.9	373	218	14.7	-41	20	6.3	331	238	21.0	6.7	3.9	23.2	25.83	187	106	17.5	0.5	6.5	38	48	13.2	250.0	2.5	7.0	18	16
Week 2	168	111	7.2	11.7	252	181	6.9	8.3	196	132	9.6	5	55	7.1	201	187	16.7	6.8	4.4	21.4	24.84	95	56	11.5	1.1	6.6	29	34	18.9	280.0	3.0	7.0	17	17
Week 3	171	172	7.8	16.7	322	359	7.2	14.9	270	295	15.5	-46	-16	5.5	224	279	20.9	7.3	4.0	21.3	13.91	172	45	21.3	0.7	7.1	30	24	14.8	280.0	2.6	7.4	22	16
Week 4	120	175	7.6	15.6	264	250	7.2	13.6	227	225	13.7	36	73	7.9	264	298	21.5	7.1	4.8	22.5	18.84	140	52	17.9	0.4	6.8	29	29	12.9	266.7	2.0	7.2	24	32
Monthly	167	160	7.5	15.7	321	258	7.1	13.3	261	214	13.6	-3	38	6.7	259	252	20.4	7.0	4.3	22.2	20.54	144	61	17.5	0.6	6.7	31	33	14.3	272.0	2.5	7.2	20	20
Min =	100	47	6.7	6	100	74	6.4	3	98	78	3.7	-351	-346	-1.1	100	50	4.2	5.9	0.3	19.5	4.79	50	28	3.3	0.0	5.8	8	16	5.3	200.0	0.1	6.1	7	2
Max =	402	300	8.8	33	760	670	7.5	20	646	574	22.9	317	392	17.6	770	562	35.9	7.8	7.4	25.0	55.63	272	206	29.1	3.6	7.4	52	81	26.0	300.0	4.7	7.6	34	48
	Fl=Flood																																	
									%Removal						%Removal																			
									96.68	95.12	78.31				96.65	95.85	85.48																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	DO	chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	DO	Nitrite	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
10.9	200	4	140	6.7	14	10	9	4.6	200		6.2		7.1	74.0	182.0	1122.0
10.6		4	150	6.6	16	13	14	3.1			6.8		7.8		334.0	1130.0
7.4		3	140	7.0	14	12	9	0.8			6.0		7.4		62.0	1345.0
6.7		5	125	6.9	12	8	9	0.4			6.7		7.4		86.0	1360.0
5.1		6	85	6.9	26	14	18	3.5		3.1	6.5	0.168	7.2		ns	ns
3.6		7	90	6.9	16	10	9	1.3			6.3		6.7	80.0	86.0	1400.0
3.6	160	6	90	6.9	10	8	15	2.5	160		7.0		6.0		84.0	1280.0
4.2		7	95	6.1	Fl	Fl	Fl	Fl			Fl		7.3		188.0	855.0
4.7	180	5	120	6.7	ns	ns	Fl	Fl	Fl		Fl		Fl		60.0	1030.0
5.9		5	120	6.9	Fl	Fl	Fl	Fl			6.9		6.9		280.0	332.0
6.2		4	105	6.8	Fl	Fl	Fl	Fl			6.7		6.7	8.0	78.0	322.0
8.9	200	5	120	6.8	24	14	13	6.1	ns		6.4		7.0		160.0	1570.0
11.1		6	135	6.8	19	9	7	5.6		6.0	6.2	0.439	7.1		222.0	1855.0
9.8	200	4	130	7.2	ns	ns	ns	ns	140		7.5		7.1		196.0	840.0
8.9		3	125	7.1	6	4	15	0.1			5.8		6.6	70.0	86.0	1075.0
10.8	120	6	125	7.3	ns	ns	ns	ns	60		7.0		6.9		148.0	1010.0
6.5		7	120	7.4	12	8	6	2.4			6.7		7.2		222.0	1095.0
5.1		7	115	7.4	12	9	12	1.2			7.0		7.3	72.0	52.0	1230.0
ns	200	5	ns	7.4	19	10	9	2.2	200		7.8		7.5		366.0	945.0
6.2		6	135	7.2	20	12	15	0.6			7.2		7.5		332.0	670.0
10.2	220	0	140	7.1	17	4	5	1.0	180	14.0	7.8	0.092	7.4		160.0	1395.0
12.1		5	155	7.1	34	13	41	7.5			6.4		7.5	73.0	764.0	460.0
9.3	220	4	130	7.1	20	11	17	4.4	180		6.0		7.4		286.0	ns
5.4		6	105	7.1	13	7	12	0.9			7.5		7.5	87.0	2272.0	360.0
ns		6	ns	7.2	12	9	6	0.8			7.4		7.4		ns	750.0
10.3	240	5	135	6.8	22	8	19	3.3	220	9.3	6.6	0.433	7.4		304.0	1390.0
9.8		6	115	7.1	22	10	15	5.2			6.8		7.4		366.0	950.0
ns	280	5	ns	7.1	16	10	28	4.9	240		6.9		7.4		438.0	830.0
ns		6	ns	6.6	15	5	11	2.3			6.7		7.6	110.0	936.0	825.0
10.4	240	6	145	7.3	7	6	13	3.5	180		7.0		7.5		170.0	820.0
203.7	2460	151.7	3190	209.7	398	224	327	68.2	1760	32.4	190.0	1.1	209.5	574	8920	28246.0
6.8	180.0	5.0	117.1	6.9	15	11	12	2.3	180.0	3.1	6.5	0.168	7.1	77.0	139.0	1272.8
7.3	193.3	5.0	117.9	6.8	22	12	10	5.8	140.0	6.0	6.7	0.439	7.0	8.0	169.1	972.0
8.0	180.0	4.9	126.7	7.3	14	8	10	1.2	146.7	14.0	7.0	0.092	7.2	71.0	195.1	1060.0
9.4	246.7	5.1	128.0	7.1	20	10	20	3.9	213.3	9.3	6.8	0.433	7.4	80.0	738.3	790.0
7.8	205.0	5.1	122.7	7.0	17	9	14	2.8	176.0	8.1	6.8	0.283	7.2	71.8	318.6	1008.8
3.6	120.0	0.1	85.0	6.1	6	4	5	0.1	60.0	3.1	5.8	0.092	6.0	8.0	52.0	322.0
12.1	280.0	7.1	155.0	7.4	34	14	41	7.5	240.0	14.0	7.8	0.439	7.8	110.0	2272.0	1855.0

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
	Flow (MGD)																	
1-Sep	10.910	1.901	0.690	5.136		16.046	15.840	9.630	7.130		60.0	44.4						
2-Sep	10.940	1.700	0.589	5.136		16.076	15.620	9.090	6.700	0.000	56.5	41.7						
3-Sep	9.670	1.869	0.580	2.760	-	12.430	15.280	10.130	6.950	0.386	81.5	55.9						
4-Sep	11.660	1.930	0.595	2.950		14.610	17.370	10.270	7.470	0.010	70.3	51.1						
5-Sep	18.530	3.501	0.907	6.080		24.610	[redacted]	8.010	3.700	0.531	32.5	15.0						
6-Sep	35.380	5.858	1.111	9.580		44.960	[redacted]			0.702			15:00					
7-Sep	40.320	9.120	1.504	11.790		52.110	[redacted]			0.429				06:00				
8-Sep	44.730	6.288	0.994	10.900		55.630	[redacted]		5.010	0.651		9.0						
9-Sep	26.360	5.062	1.077	7.490		33.850	33.850			0.192								
10-Sep	18.620	2.962	0.568	6.180		24.800	24.800			0.366								
11-Sep	18.550	3.991	0.877	5.630		24.180	24.180	9.000	1.780	0.890	37.2	7.4						
12-Sep	20.640	3.027	1.077	4.940		25.580	25.580	8.890	2.800	0.809	34.8	10.9						
13-Sep	[redacted]	1.840	0.520	4.640		[redacted]	5.061	9.800	5.050	0.833	193.6	99.8						
14-Sep	[redacted]	3.653	1.071	4.470		[redacted]	4.791	10.480	6.140	0.948	218.7	128.2						
15-Sep	[redacted]	1.813	0.500	4.920		[redacted]	7.121	9.940	5.210	0.749	139.6	73.2						
16-Sep	18.000	3.377	0.907	4.030		22.030	22.030	9.330	6.290	0.761	42.4	28.6						
17-Sep	15.810	1.483	0.339	3.920		19.730	19.730	9.290	6.830	0.539	47.1	34.6						
18-Sep	4.780	2.454	0.716	4.120		8.900	8.900	9.520	6.530	0.768	107.0	73.4						
19-Sep	12.670	2.396	0.709	3.780		16.450	16.450	8.670	6.290	0.756	52.7	38.2						
20-Sep	11.660	2.168	0.708	3.730		15.390	13.380	8.230	5.630	0.744	53.5	36.6						
21-Sep	[redacted]	2.323	0.737	3.710		[redacted]	8.690	9.110	4.080	0.339	117.4	52.6						
22-Sep	[redacted]	2.255	0.752	3.600		[redacted]	17.730	8.420	6.950	0.976	52.8	43.5						
23-Sep	18.080	3.657	0.832	6.180		24.260	[redacted]	9.090	3.050	0.320	37.5	12.6						
24-Sep	16.500	2.758	0.623	4.730		21.230	22.170	9.210	5.800	0.348	43.4	27.3						
25-Sep	13.400	2.584	0.723	4.460		17.860	20.830	9.780	5.880	0.815	54.8	32.9						
26-Sep	17.500	3.183	1.056	4.050		21.550	19.790	9.550	5.830	0.977	44.3	27.1						
27-Sep	8.030	1.500	0.452	3.980		12.010	20.180	8.560	5.950	0.697	71.3	49.5						
28-Sep	15.110	2.417	0.796	3.900		19.010	21.550	8.580	5.910	0.528	45.1	31.1						
29-Sep	12.920	2.306	0.691	3.840		16.760	19.110	8.740	5.910	0.676	52.1	35.3						
30-Sep	12.070	2.014	0.644	3.460		15.530	16.710	8.120	5.860	0.566	52.3	37.7						
1-Oct							19.000											
Total	462.191	91.390	23.345	154.092	0.000	616.283	638.313	229.440	144.730	17.306	1798.4	1097.6						
Week 1	19.630	3.697	0.854	6.205	#DIV/0!	25.835	26.541	9.426	6.390	0.343	60.2	41.6						
Week 2	18.520	3.832	0.883	6.321	#DIV/0!	24.842	24.842	9.543	4.156	0.670	121.1	51.0						
Week 3	9.881	2.288	0.659	4.030	#DIV/0!	13.911	13.757	9.156	5.837	0.665	79.9	48.2						
Week 4	14.426	2.622	0.748	4.414	#DIV/0!	18.840	20.930	9.027	5.624	0.666	49.9	32.0						
Monthly	15.406	3.046	0.778	5.136	OOS	20.543	21.204	9.178	5.567	0.597	71.9	42.2						
Min =	0.321	1.483	0.339	2.760	0.000	4.791	4.791	8.010	1.780	0.000	32.5	7.4						
Max =	44.730	9.120	1.504	11.790	0.000	55.630	55.630	10.480	7.470	0.977	218.7	128.2						

Due to storm event and major flooding, the effluent flow meter was OOS and required major repairs. Influent flow was used in lieu of effluent flow.

[redacted]

Monthly average used for missing data.

[redacted]

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	September 2011			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Sep															
2-Sep	7.3	329	5020	7.4	176	6440	7.3	298	4880	7.3	257	5420	7.2	555	5660
3-Sep															
4-Sep															
5-Sep	ns		ns	ns		ns	ns		ns	ns		ns	ns		ns
6-Sep															
7-Sep	7.2	278	5260	7.3	173	6140	7.2	41	4940	7.3	455	5420	7.2	551	5500
8-Sep															
9-Sep	ns	ns	ns	ns	ns	ns	ns	ns	ns	7.2	306	5500	7.2	661	5100
10-Sep															
11-Sep															
12-Sep	7.2	208	4960	7.2	165	6300	7.2	133	4580	7.3	118	5340	7.1	622	3660
13-Sep															
14-Sep	7.3		4720	7.3		6100	7.2		4360	7.2		5120	7.1		4320
15-Sep															
16-Sep	7.2	137	4640	6.9	751	5480	7.1	357	4660	7.3	1224	5280	7.0	1582	600
17-Sep															
18-Sep															
19-Sep	7.2	300	4840	7.2	696	5840	7.2	478	4520	7.3	284	5080	7.2	924	2160
20-Sep															
21-Sep	7.2		4760	7.2		5960	7.1		4860	7.3		4920	7.0		380
22-Sep															
23-Sep	7.2	4460	265	7.2	6180	588	7.3	4840	410	7.2	5200	220	7.1	1760	1084
24-Sep															
25-Sep															
26-Sep	6.9	567	3940	7.3	810	5880	7.2	249	4400	7.2	408	5240	7.1	353	4620
27-Sep															
28-Sep	7.2		4420	7.2		5660	7.1		4040	7.2		5020	7.1		4440
29-Sep															
30-Sep	7.2	167	4400	7.2	994	3780	7.3	161	5760	7.2	263	4880	7.2	363	4500
1-Oct															
Total	79.1	6446	47225	79.5	9945	58168	79.1	6557	47410	86.8	8515	57440	85.5	7371	42024
Week 1	7.3	304	5140	7.4	175	6290	7.3	170	4910	7.3	356	5420	7.2	553	5580
Week 2	7.2	208	4840	7.2	165	6200	7.2	133	4470	7.2	212	5320	7.2	642	4360
Week 3	7.2	219	4747	7.1	724	5760	7.1	418	4680	7.3	754	5093	7.1	1,253	1047
Week 4	7.1	2,514	2875	7.2	3,495	4043	7.2	2,545	2950	7.2	2,804	3493	7.1	1,057	3381
Monthly	7.2	806	4293	7.2	1243	5288	7.2	820	4310	7.2	946	4787	7.1	819	3502
Min =	6.9	137	265	6.9	165	588	7.1	41	410	7.2	118	220	7.0	353	380
Max =	7.3	4460	5260	7.4	6180	6440	7.3	4840	5760	7.3	5200	5500	7.2	1760	5660

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Dissolved Oxygen -sept 2011

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
9/1/2009	6.4	6.4	6.4	7.0	6.9	6.7	6.4		6.4
9/2/2009	6.6	6.7	6.9	7.1	7.2	7.0	6.6		6.6
9/3/2009	6.9	7.0	7.2	7.1	7.0	6.9	6.1		6.1
9/4/2009	7.0	7.0	7.0	7.3	7.1	7.0	7.0		7.0
9/5/2009	6.9	7.0	7.0	7.4	7.5	7.0	7.1		6.9
9/6/2009	5.5	5.5	6.7	7.3	7.2	6.5	5.7		5.5
9/7/2009	6.9	7.0	7.5	7.3	5.9	5.6	7.4		5.6
9/8/2009	6.0	6.6	7.1	5.5	Flood	Flood	7.5		5.5
9/9/2009	Flood	Flood	Flood	6.1	6.6	6.6	Flood		6.1
9/10/2009	6.5	6.9	7.0	7.3	6.9	6.7	7.1		6.5
9/11/2009	6.9	7.1	7.3	7.5	7.1	7.0	7.0		6.9
9/12/2009	6.8	6.8	6.7	7.1	7.0	6.7	6.7		6.7
9/13/2009	6.9	7.0	6.9	6.9	6.9	7.1	6.9		6.9
9/14/2009	7.0	7.2	7.4	7.5	7.6	7.7	8.4		7.0
9/15/2009	7.7	7.6	7.4	7.6	7.8	8.0	6.2		6.2
9/16/2009	8.1	8.3	6.4	7.6	7.6	7.5	7.4		6.4
9/17/2009	7.4	7.6	7.7	7.7	7.8	7.7	7.5		7.4
9/18/2009	7.8	8.0	8.2	8.0	7.7	7.5	8.1		7.5
9/19/2009	7.4	7.8	7.9	7.8	7.5	7.4	6.2		6.2
9/20/2009	7.3	7.3	7.6	7.8	7.7	7.4	7.3		7.3
9/21/2009	7.4	7.6	7.6	7.5	7.5	7.6	7.4		7.4
9/22/2009	7.7	7.9	7.0	7.0	6.9	9.8	7.3		6.9
9/23/2009	7.0	7.0	6.7	6.7	6.6	6.3	6.6		6.3
9/24/2009	6.6	6.9	7.4	7.8	7.3	7.2	7.4		6.6
9/25/2009	7.3	7.5	7.6	7.7	7.1	7.0	7.7		7.0
9/26/2009	7.0	7.2	7.3	7.0	6.8	6.8	7.0		6.8
9/27/2009	6.9	7.1	7.2	7.1	6.9	6.8	7.0		6.8
9/28/2009	6.9	7.0	7.1	7.3	7.1	7.0	6.9		6.9
9/29/2009	7.0	7.2	7.4	7.1	7.1	6.8	7.1		6.8
9/30/2009	6.9	7.1	7.1	7.3	7.2	7.0	7.0		6.9
Min	5.54	5.52	6.40	5.47	5.92	5.62	5.7	Min	5.47
Max	8.10	8.30	8.20	8.00	7.82	9.80	8.4	Max	7.50
								Avg	6.64

	September 2011 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Sep	0.02	0.01	0.02	0.04	0.03	0.04	0.03	
2-Sep	0.03	0.02	0.03	0.02	0.03	0.03	0.03	
3-Sep	0.03	0.27	0.04	0.04	0.03	0.04	0.08	
4-Sep	0.03	0.04	0.05	0.04	0.03	0.03	0.04	
5-Sep	0.03	0.02	0.03	0.17	0.23	0.02	0.08	
6-Sep	0.25	0.02	0.19	0.22	0.32	0.27	0.21	
7-Sep	0.07	0.05	0.29	0.38	0.10	0.02	0.15	
8-Sep	0.02	0.01	0.03	0.14	0.25	0.01	0.08	
9-Sep	0.02	0.16	0.00	0.25	0.35	0.35	0.19	
10-Sep	0.19	0.28	0.02	0.10	0.25	0.16	0.17	
11-Sep	0.14	0.10	0.02	0.01	0.10	0.04	0.07	
12-Sep	0.16	0.03	0.00	0.38	0.03	0.01	0.10	
13-Sep	0.02	0.02	0.03	0.12	0.15	0.56	0.15	
14-Sep	0.01	0.02	0.04	0.01	0.02	0.03	0.02	
15-Sep	0.01	0.01	0.02	0.02	0.01	0.02	0.02	
16-Sep	0.01	0.01	0.03	0.08	0.29	0.39	0.14	
17-Sep	0.02	0.03	0.03	0.02	0.06	0.34	0.08	
18-Sep	0.01	0.02	0.02	0.02	0.01	0.03	0.02	
19-Sep	0.01	0.02	0.02	0.00	0.01	0.02	0.01	
20-Sep	0.00	0.03	0.03	0.02	0.01	0.01	0.02	
21-Sep	0.03	0.06	0.02	0.00	0.05	0.02	0.03	
22-Sep	0.00	0.03	0.02	0.02	0.02	0.01	0.02	
23-Sep	0.02	0.02	0.02	0.00	0.00	0.00	0.01	
24-Sep	0.02	0.05	0.01	0.02	0.03	0.01	0.02	
25-Sep	0.02	0.02	0.03	0.02	0.01	0.01	0.02	
26-Sep	0.01	0.03	0.02	0.02	0.00	0.02	0.02	
27-Sep	0.01	0.02	0.02	0.01	0.02	0.00	0.01	
28-Sep	0.27	0.03	0.02	0.03	0.02	0.02	0.07	
29-Sep	0.02	0.03	0.02	0.00	0.00	0.02	0.02	
30-Sep	0.04	0.11	0.01	0.00	0.00	0.02	0.03	
Average	0.05	0.05	0.04	0.07	0.08	0.09	0.06	
Minimum	0.00	0.01	0.00	0.00	0.00	0.00		
Maximum	0.27	0.28	0.29	0.38	0.35	0.56		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* September 2011

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 21.35	X 0.01	= 0.00
0.00	X 21.35	X 0.01	= 0.00
0.00	X 21.35	X 0.01	= 0.00
931.22	X 21.35	X 0.01	= 198.82
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 198.82

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	198.82
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

10/20/11
Date

City of Reading 3-C Watershed *for the Month* September 2011

PA0026549

Bio-Solids received from other sources

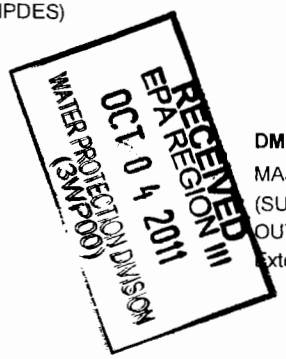
Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004



PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	79	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	5.5	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	7.9		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1359	1650		******	9	10		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	214	******		******	1.3	******		0	Daily	COMP24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	16.93	50.36		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.03	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Wastewater Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		09/21/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2011	TO	08/31/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01174	******		******	<0.00010	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	24	******		0	Daily	GRAB
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	200 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1403	1695		******	10	11		0	Daily	COMP24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Ralph E. Johnson P.E. Wastewater Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258	09/21/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code / NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

August 2011						City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
31-Jul		10	7	12		14.03									
1-Aug	24.4	15	8	8	0.4	14.74	6.3	7.4	0.64		58	75	0.03	64	94
2-Aug	24.5	13	9	9	0.8	14.21	6.0	7.3	0.53		5	85	0.00	64	90
3-Aug	24.8	17	14	10	0.5	15.86	5.7	7.3	0.47		5	85	0.39	67	84
4-Aug	24.1	15	10	9	0.5	14.91	6.0	7.5	0.38		43	100	0.01	68	78
5-Aug	24.1	14	9	9	0.8	14.47	6.3	7.4	0.58		4	100	0.00	64	88
6-Aug	23.8	14	9	10	1.4	20.67	6.1	7.9	0.47		1	100	0.17	69	83
7-Aug	23.3	17	14	13	1.3	17.03	5.5	7.6	0.72		3	85	0.93	71	87
8-Aug	23.6	13	11	8	0.2	15.46	6.5	7.8	0.50		36	85	0.00	69	89
9-Aug	23.4	15	9	10	2.9	20.64	6.0	7.6	0.52		96	85	0.76	65	95
10-Aug	22.6	14	8	9	0.4	15.26	5.9	7.9	0.58		55	85	0.00	63	84
11-Aug	23.3	12	8	7	0.2	14.46	7.1	7.7	0.56		49	85	0.00	59	83
12-Aug	23.5	16	14	12	0.1	14.01	6.9	7.5	0.4		2,000	80	0.00	54	86
13-Aug	21.6	15	11	11	0.1	15.94	6.8	7.5	0.75		36	100	0.58	58	83
14-Aug	22.6	14	10	11	0.4	16.83	6.7	7.6	0.55		742	85	0.29	69	72
15-Aug	22.7	13	10	6	0.6	16.23	6.5	7.4	0.27		604	75	0.13	68	82
16-Aug	23.1	12	7	8	1.0	15.49	6.6	7.5			1	75	0.00	63	86
17-Aug	22.4	10	15	10	1.8	15.27	6.4	7.4	0.66		29	75	0.00	58	90
18-Aug	23.3	14	14	10	0.7	15.37	6.4	7.5	0.89		83	75	0.21	66	90
19-Aug	22.8	16	10	10	1.9	15.03	6.3	7.3	0.46		34	75	0.00	64	90
20-Aug	22.6	15	9	15	0.5	13.10	6.4	7.7	0.41		1	75	0.00	60	91
21-Aug	22.0	12	9	6	1.1	16.17	6.4	7.8	0.53		5	75	0.82	66	85
22-Aug	23.1	12	7	6	0.4	15.09	6.4	7.4	0.47		27	85	0.00	56	80
23-Aug	22.5	10	8	4	1.9	14.19	6.7	7.4	0.60		21	85	0.00	51	81
24-Aug	23.1	9	5	3	1.2	14.40	6.7	7.4	0.74		3	85	0.00	54	82
25-Aug	23.7	10	7	7	2.7	16.98	6.4	7.4	0.67		240	75	0.23	70	81
26-Aug	22.4	8	4	8	0.6	15.35	6.5	7.3	0.52		4	75	0.01	67	82
27-Aug	23.1	25	16	17	4.0	50.36	6.4	7.8	0.46		9	65	1.60	70	79
28-Aug	21.8	10	6	8	0.4	33.58	5.7	7.7	0.75		92	42	2.49	60	74
29-Aug	21.9	9	8	8	0.5	12.12	7.2	7.6	0.82		118	50	0.00	51	80
30-Aug	21.7	14	7	5	0.4	4.09	7.1	7.5	0.97		29	42	0.00	52	88
31-Aug	21.9	15	10	12	10.0	17.58	6.2	7.5	0.89		21	85	0.00	54	88
1-Sep		13	9	11		15.84									
2-Sep		14	10	8		15.62									
3-Sep		10	8	8		15.28									
						See DO profile									
TOTAL		418	296	279	39.6	524.9	###	233.4	19.09			2449	8.65		
Week 1	24.1	14	9	10	0.8	15.56	5.98	7.48	0.54		17	90	0.22	67	86
Week 2	22.9	15	11	10	0.6	16.11	6.55	7.64	0.54		431	86	0.23	62	85
Week 3	22.7	13	11	10	1.1	15.33	6.43	7.51	0.66		108	75	0.17	64	88
Week 4	22.8	12	8	7	1.6	20.36	6.41	7.48	0.60		57	73	0.62	61	80
Week 5		12	8	9		16.30									
Monthly	23.0	13	10	9	1.3	16.93	6.39	7.53			24	79	0.28	62	85
Weekly averages: 7/31-8/6, 8/7-13, 8/14-20, 8/21-27 and 8/28-9/3.															
Min =	21.6	8	4	3	0.1	4.09	5.5	7.3	0.27		1	42	0.00	51	72
Max =	24.8	25	16	17	10.0	50.36	7.2	7.9	1.38		2,000	100	2.49	71	95
NH_3-N August 9th and 10th sent to commercial lab. The result listed is the average of both results.															
DISCHARGE LIMITATIONS															
Ave Monthly			20	30	6		Min	6.0			200	186			
Ave Weekly			30	45			of	to							
Inst. Max			40	60	12		5.0	9.0				465			

Print Date: 9/21/2011

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
31-Jul							1,170	819						1,404								
1-Aug	5,843	35,869	41,712	14,953		56,665	1,844	983	4,412	22,898	27,310	1,719	29,029	983	1,146	451	1,441	1892	1,906	8,634	3,798	47
2-Aug	6,123	44,661	50,784	-6,018		44,766	1,541	1,067	3,042	28,898	31,941	-2,310	29,631	1,067	765	475	1,743	2,218	1,374	9,961	3,592	98
3-Aug	6,702	49,846	56,548	-35,564		20,983	2,249	1,852	3,923	21,628	25,551	11,590	37,141	1,323	137	474	1,504	1,978	1,086	7,417	3,064	60
4-Aug	4,764	42,367	47,131	-3,136		43,995	1,865	1,243	5,164	26,946	32,110	-3,827	28,283	1,119	2,214	506	1,754	2,260	1,636	7,149	3,897	56
5-Aug	5,388	42,501	47,889	-4,890		42,999	1,690	1,086	4,566	26,808	31,374	-1,175	30,199	1,086	1,730	449	1,635	2,084	1,886	6,035	3,970	97
6-Aug	5,880	65,689	71,569	-21,789		49,780	2,413	1,551	6,505	36,469	42,974	6,253	49,227	1,724	161	520	1,914	2,434	621	3,470	3,056	247
7-Aug	5,541	42,524	48,065	204	261	48,269	2,415	1,988	5,020	24,907	29,927	18,837	48,764	1,846	417	536	1,650	2,186	920	5,760	3,107	187
8-Aug	3,128	46,284	49,412	976		50,388	1,676	1,418	1,897	23,472	25,370	26,663	52,033	1,031	1,300	438	1,413	1,851	1,460	10,574	3,311	31
9-Aug	4,902	40,190	45,093	-14,152		30,940	2,582	1,549	6,213	30,453	36,666	-19,790	16,876	1,721	2,925	531	1,419	1,951	1,629	7,572	3,580	491
10-Aug	3,678	29,634	33,312	6,766		40,078	1,782	1,018	3,269	7,902	11,172	27,761	38,933	1,145	943	521	1,834	2,356	1,618	6,085	3,973	45
11-Aug	4,921	36,256	41,177	-6,857	305	34,320	1,447	965	4,330	20,573	24,904	-568	24,336	844	609	518	1,602	2,120	720	7,724	2,839	20
12-Aug	5,023	38,939	43,962	5,437		49,399	1,869	1,636	5,114	15,745	20,859	11,868	32,727	1,402	200	486	1,651	2,137	591	3,577	2,727	17
13-Aug	4,966	34,022	38,988	3,719		42,707	1,994	1,462	5,344	27,218	32,562	5,545	38,107	1,462	631	592	1,701	2,293	641	887	2,935	19
14-Aug	5,780	41,797	47,576	-6,302	336	41,275	1,965	1,404	5,780	26,978	32,758	6,159	38,916	1,544	2,833	532	2,251	2,783	519	1,272	3,302	58
15-Aug	4,770	40,157	44,928	-6,789		38,139	1,760	1,354	5,137	10,887	16,024	13,814	29,838	812	1,668	514	1,660	2,174	2,111	6,873	4,285	77
16-Aug	4,935	47,545	52,480	2,006		54,486	1,550	904	5,484	24,452	29,935	4,680	34,615	1,033	3,024	500	1,605	2,105	2,617	8,647	4,722	133
17-Aug	2,951	56,145	59,096	-3,224		55,871	1,274	1,910	1,628	25,180	26,808	30,328	57,136	1,274	2,718	494	1,608	2,102	1,029	5,212	3,131	227
18-Aug	4,514	57,743	62,256	-3,459	856	58,797	1,795	1,795	3,479	22,641	26,120	6,022	32,142	1,282	1,836	537	1,504	2,042	1,320	2,782	3,361	88
19-Aug	5,044	43,627	48,671	-5,792		42,879	2,006	1,254	4,884	55,323	60,207	-26,581	33,626	1,254	765	598	2,311	2,910	1,412	5,328	4,322	242
20-Aug	4,450	37,136	41,586	-1,487		40,099	1,639	983	4,059	44,887	48,946	-18,671	30,275	1,639	68	492	1,703	2,195	161	3,817	2,356	56
21-Aug	6,316	36,136	42,453	-14,270	301	28,183	1,618	1,214	2,229	21,682	23,911	-16,396	7,515	809	495	562	1,798	2,360	1,034	6,048	3,394	144
22-Aug	5,543	43,583	49,126	-4,279		44,848	1,510	881	5,007	21,792	26,798	-3,400	23,399	755	449	512	1,450	1,962	514	8,301	2,476	53
23-Aug	2,977	45,286	48,264	-20,658		27,605	1,183	947	4,724	44,743	49,467	-42,179	7,288	473	1,806	510	1,938	2,448	1,328	7,224	3,776	220
24-Aug	6,499	40,474	46,973	-7,491		39,482	1,081	600	4,602	62,471	67,072	-31,376	35,696	360	632	496	1,813	2,309	2,137	5,900	4,446	144
25-Aug	6,375	34,878	41,253	-19,686	627	21,567	1,416	991	5,510	42,194	47,704	-26,783	20,920	991	1,412	519	1,582	2,101	1,015	7,242	3,116	380
26-Aug	4,943	36,256	41,200	4,670	111	45,870	1,024	512	5,182	46,206	51,388	-16,569	34,820	1,024	150	512	1,830	2,342	-142	2,895	2,200	76
27-Aug	11,817	92,543	104,360	66,484		170,843	10,500	6,720	14,510	37,517	52,027	76,715	128,743	7,140	1,442	1,033	5,127	6,161	2,656	667	8,817	1,688
28-Aug	6,048	42,216	48,264	-18,738		29,527	2,801	1,680	5,703	27,814	33,517	-17,385	16,132	2,240		570	1,749	2,319	-303		2,016	122
29-Aug	6,736	10,884	17,620	-1,586		16,034	910	809	7,952	3,128	11,080	15,600	26,680	809	604	631	485	1,116	1,078	7,527	2,193	46
30-Aug	10,258	22,121	32,379	-10,816		21,563	478	239	6,292	15,135	21,427	-13,041	8,386	171	79	544	1,397	1,941	745	2,388	2,687	12
31-Aug	4,954	31,383	36,337	-9,295		27,043	2,199	1,466	4,657	15,277	19,934	-2,465	17,469	1,759	1,742	552	1,149	1,701	163	3,815	1,864	1,466
1-Sep							1,717	1,189						1,453								
2-Sep							1,824	1,303						1,042								
3-Sep							1,274	1,019						1,019								
	Average values used for loadings due to no samples for that day.																					
TOTAL	171,769	1,308,693	1,480,462	-121,063	2,796	1,359,398	62,074	43,482	155,618	862,224	1,017,842	21,038	1,038,879	42,125	34,902	16,610	54,222	70,831	35,481	170,784	106,313	6,646
Week 1	5,749	46,208	51,957	-8,034	261	43,922	1,825	1,229	4,662	26,936	31,598	4,441	36,039	1,244	939	487	1,663	2,150	1,347	6,918	3,497	113
Week 2	4,628	38,160	42,789	-1,488	320	41,301	1,966	1,434	4,564	21,763	26,327	8,234	34,561	1,350	1,349	517	1,696	2,213	1,025	5,384	3,238	97
Week 3	4,711	45,499	50,210	-4,717	578	45,493	1,712	1,372	3,843	29,293	33,136	-972	32,164	1,262	1,511	528	1,741	2,270	1,383	5,530	3,653	138
Week 4	6,315	47,891	54,206	43	369	54,249	2,619	1,695	6,462	40,391	46,853	-8,711	38,142	1,650	982	593	2,213	2,806	1,029	5,372	3,835	383
Week 5							1,600	1,101						1,213								
Monthly	5,541	42,216	47,757	-3,905	399	43,852	2,002	1,403	5,020	27,814	32,834	679	33,512	1,359	1,163	536	1,749	2,285	1,145	5,693	3,429	214
Min =	2951	10884	17620	-35564	111	16,034	478	239	1,628	3,128	11,080	-42,179	7,288	171	68	438	485	1,116	-303	667	1,864	12
Max =	11817	92543	104360	66484	856	170,843	10,500	6,720	14,510	62,471	67,072	76,715	128,743	7,140	3,024	1,033	5,127	6,161	2,656	10,574	8,817	1,688
								3,336						7,130								1,000
								5,004						10,696								

Print Date: 9/21/2011

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
31-Jul								
1-Aug								
2-Aug	< 0.00010	< 0.00190	< 0.00010	< 0.00876	< 0.00010	< 0.01066	< 0.00010	< 0.01185
3-Aug	< 0.00010	< 0.00204	0.00010	0.00845	0.00010	0.01049	< 0.00010	< 0.01323
4-Aug								
5-Aug								
6-Aug								
7-Aug								
8-Aug								
9-Aug	< 0.00010	< 0.00243	0.00060	0.06215	< 0.00010	< 0.01279	< 0.00010	< 0.01721
10-Aug								
11-Aug								
12-Aug								
13-Aug								
14-Aug								
15-Aug								
16-Aug	< 0.00010	< 0.00219	< 0.00010	< 0.00849	0.00030	0.03205	< 0.00010	< 0.01292
17-Aug								
18-Aug					0.00050	0.04900		
19-Aug								
20-Aug								
21-Aug								
22-Aug								
23-Aug	< 0.00010	< 0.00198	0.00030	0.02717	< 0.00010	< 0.01104	< 0.00010	< 0.01183
24-Aug								
25-Aug								
26-Aug								
27-Aug								
28-Aug								
29-Aug								
30-Aug	< 0.00010	< 0.00274	0.00050	0.02911	< 0.00010	< 0.00856	< 0.00010	< 0.00341
31-Aug								
1-Sep								
2-Sep								
3-Sep								
Total	0.00060	0.01329	0.00170	0.14412	0.00130	0.13458	0.00060	0.07046
Week 1	< 0.00010	< 0.00197	< 0.00010	< 0.00860	< 0.00010	< 0.01058	< 0.00010	< 0.01254
Week 2	< 0.00010	< 0.00243	0.00060	0.06215	< 0.00010	< 0.01279	< 0.00010	< 0.01721
Week 3	< 0.00010	< 0.00219	< 0.00010	< 0.00849	0.00040	0.04052	< 0.00010	< 0.01292
Week 4	< 0.00010	< 0.00198	0.00030	0.02717	< 0.00010	< 0.01104	< 0.00010	< 0.01183
Week 5	< 0.00010	< 0.00274	0.00050	0.02911	< 0.00010	< 0.00856	< 0.00010	< 0.00341
Monthly	< 0.00010	< 0.00221	< 0.00028	< 0.02402	< 0.00019	< 0.01923	< 0.00010	< 0.01174
Min =	< 0.00010	< 0.00190	< 0.00010	< 0.00845	< 0.00010	< 0.00856	< 0.00010	< 0.00341
Max =	< 0.00010	< 0.00274	0.00060	0.06215	0.00050	0.04900	< 0.00010	< 0.01721
							0.00023	0.055
							0.00046	

Print Date: 9/21/2011

August 2011 — City of Reading Wastewater Treatment Plant — Laboratory Process Control Data

	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent							
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
31-Jul																																		
1-Aug	302	228	7.2	23.3	448	286	6.6	18.0	420	275	19.0	150	17	19.2	570	292	38.2	6.7	1.6	25.0	11.92	260	51	27.1	0.1	6.3	60	47	15.4	300	1	6.9	35	22
2-Aug	322	160	7.3	25.0	510	330	6.6	19.9	476	300	20.8	-56	-22	12.9	420	278	33.7	6.7	2.0	26.3	12.78	252	46	28.4	0.1	6.6	43	21	18.1		3	7.2	28	13
3-Aug	328	192	7.2	23.2	590	256	6.8	17.8	539	244	18.9	-339	110	10.3	200	354	29.2	7.1	2.0	24.8	12.58	308	36	23.0	0.1	6.7	47	31	15.4	320	0	7.1	26	7
4-Aug	238	258	7.1	25.3	500	318	6.7	20.7	450	307	21.6	-30	-37	15.6	420	270	37.2	7.2	3.6	25.6	12.56	232	50	26.8	0.1	6.6	44	28	18.6		3	7.3	22	11
5-Aug	295	250	7.3	24.6	520	328	6.7	20.0	479	314	20.8	-49	-12	18.9	430	302	39.7	6.7	1.5	25.8	11.99	260	46	28.9	0.1	6.6	47	68	18.3	300	1	7.1	24	12
6-Aug	235	260	7.6	20.8	580	322	7.0	16.9	518	311	17.6	-158	45	4.5	360	356	22.1	6.7	0.3	25.3	16.58	222	48	22.6	0.7	6.7	30	16	17.0		3	7.3	22	15
7-Aug	ns	ns	7.4	ns	420	246	7.2	16.3	388	242	17.7	2	152	7.4	390	394	25.1	6.9	2.1	24.2	14.84	205	64	16.2	1.0	6.6	48	27	11.6		2	6.9	24	13
8-Aug	155	94	7.4	21.7	560	284	6.6	17.1	481	247	18.0	9	259	14.2	490	506	32.2	6.8	1.3	24.7	12.33	232	61	23.2	0.1	6.5	54	43	15.6	360	1	6.8	18	1
9-Aug	202	256	6.9	21.9	388	294	6.4	13.7	353	287	15.3	-111	-155	12.7	242	132	28.0	7.1	0.7	24.5	15.33	210	42	19.6	0.1	6.5	34	39	14.6		2	7.1	32	17
10-Aug	180	160	7.3	25.5	315	84	6.9	19.5	291	98	20.6	59	242	14.1	350	340	34.7	6.7	1.3	25.0	13.73	207	34	24.5	0.1	6.5	27	25	13.7	240	2	7.0	19	13
11-Aug	250	220	7.4	26.3	430	244	6.9	19.0	396	239	20.4	-66	-5	6.9	330	234	27.3	6.8	0.7	24.3	12.47	218	60	23.6	0.1	6.6	31	21	14.2		4	7.2	21	11
12-Aug	275	280	7.1	26.6	460	186	6.5	19.5	427	203	20.8	53	115	5.7	480	318	26.5	6.5	0.7	24.2	12.34	242	69	20.5	0.2	6.4	43	39	13.7	260	1	6.7	21	12
13-Aug	223	240	7.4	26.6	390	312	6.9	19.5	356	297	20.9	34	51	5.9	390	348	26.8	6.7	2.7	24.5	13.13	185	94	20.5		6.3	44	50	13.7		1	7.1	16	14
14-Aug	252	252	6.4	23.2	440	284	6.2	23.7	403	278	23.6	-53	52	4.4	350	330	28.0	6.6	1.7	24.6	14.14	135	69	17.7	0.0	6.3	22	16	14.7		1	6.8	12	1
15-Aug	208	224	7.1	22.4	450	122	6.9	18.6	401	143	19.4	-61	123	18.8	340	266	38.2	6.8	8.8	24.8	13.45	232	48	25.2		6.5	36	29	15.7	260	3	6.9	20	13
16-Aug	225	250	7.3	22.8	560	288	6.6	18.9	491	280	19.7	19	44	24.5	510	324	44.2	6.8	4.5	24.7	12.81	252	46	27.1	0.1	6.4	43	37	18.4		2	6.8	23	13
17-Aug	145	80	7.2	24.3	660	296	6.6	18.9	561	254	19.9	-31	288	9.8	530	542	29.7	7.1	2.9	25.1	12.64	270	38	23.9	0.1	6.7	13	12	17.2	280	3	7.2	18	2
18-Aug	205	158	7.1	24.4	760	298	6.6	19.8	635	267	20.8	-35	61	13.5	600	328	34.3	7.0	5.3	25.6	11.75	248	51	28.1	0.1	6.6	35	23	17.5		3	7.4	22	9
19-Aug	252	244	7.3	29.9	470	596	6.6	24.9	431	534	25.8	-51	-236	12.5	380	298	38.3	7.0	3.4	25.1	13.53	280	50	31.5	0.1	6.6	38	41	19.2	300	2	7.2	23	17
20-Aug	228	208	7.5	25.2	460	556	6.9	21.1	415	488	21.9	-15	-186	1.6	400	302	23.5	6.6	1.8	25.2	12.02	272	52	27.1	0.8	6.6	38	24	16.7		2	7.1	18	8
21-Aug	255	90	7.5	22.7	390	234	7.1	19.4	362	204	20.1	-122	-140	8.8	240	64	28.9	6.6	0.8	26.2	14.08	182	26	24.1	0.9	6.6	50	29	14.5		3	7.1	15	1
22-Aug	248	224	7.5	22.9	580	290	7.0	19.3	504	275	20.1	-44	-35	5.3	460	240	25.4	6.9	5.6	25.2	11.69	260	62	34.7	0.1	6.6	26	26	14.1	280	3	7.3	17	12
23-Aug	150	238	7.6	25.7	500	494	7.2	21.4	437	448	22.2	-187	-382	12.0	250	66	34.2	7.2	6.1	24.2	13.24	265	70	31.0	0.1	6.6	94	55	20.2		2	7.4	24	8
24-Aug	322	228	7.8	24.6	460	710	7.1	20.6	434	620	21.3	-69	-290	19.8	365	330	41.1	7.2	5.0	24.9	12.97	230	70	28.9	0.1	6.5	32	27	17.2	300	3	7.3	24	14
25-Aug	280	242	7.5	22.8	410	496	7.0	18.6	383	442	19.5	-183	-248	9.4	200	194	28.9	6.9	3.7	25.1	12.93	225	53	25.9	0.1	6.6	39	37	21.6		1	7.3	22	7
26-Aug	248	260	7.5	25.7	430	548	6.8	21.7	395	493	22.5	45	-159	-1.4	440	334	21.1	6.9	4.5	24.7	12.50	272	56	23.3	0.1	6.6	32	26	12.7	240	0	7.0	18	11
27-Aug	215	264	7.5	18.8	370	150	6.7	20.5	342	171	20.2	218	251	8.7	560	422	28.9	6.6	7.8	24.9	36.58	252	61	22.0	0.9	6.5	50	45	13.4		3	7.1	30	24
28-Aug	140	132	7.5	13.2	ns	ns	7.1	ns	335	233	16.1	-130	-121	-2.1	205	112	14.0	7.1	9.4	22.9	17.27	120	29	10.3	5.9	6.9	25	20	7.4		1	7.3	18	21
29-Aug	205	242	7.6	19.2	348	100	ns	15.5	275	173	17.4	-25	243	16.8	250	416	34.2	7.4	6.9	24.1	7.69	160	86	25.0	0.1	6.7	42	42	20.5	220	3	7.5	18	13
30-Aug	375	230	7.6	19.9	380	260	6.7	24.0	378	250	22.7	-126	-152	8.7	252	98	31.4	6.5	0.8	22.1	10.26	255	81	27.8	0.0	6.6	68	40	24.0		1	6.9	28	11
31-Aug	200	188	7.6	22.3	530	258	7.0	19.4	433	237	20.3	-111	-29	1.9	322	208	22.2	6.8	8.4	23.7	10.07	220	48	29.9	0.5	6.7	54	59	26.5	320	1	7.3	22	41
1-Sep																																		
2-Sep																																		
3-Sep																																		
TOTAL	7158	6352	227.6	700.8	14309	9470	204	584.2	13188	9150	625.8	-1462	-152	321.4	11726	8998	947.2	###	###	767.3	422.20	7163	1697	768.4	12.5	###	1289	1043	511.4	3980.0	61.5	220.4	680	387
Week 1	287	225	7.3	23.7	510	298	6.8	18.5	467	284	19.5	-69	36	12.7	399	321	32.2	6.8	1.9	25.3	13.32	248	49	24.7	0.3	6.6	46	34	16.3	306.7	1.8	7.1	26	13
Week 2	220	215	7.1	24.5	426	241	6.6	18.9	387	235	19.9	-11	80	9.1	376	315	29.1	6.7	1.3	24.5	13.35	204	61	21.4	0.1	6.4	36	33	14.3	286.7	1.8	7.0	20	10
Week 3	217	179	7.3	24.5	536	341	6.8	20.2	471	310	21.1	-42	-6	12.8	429	303	33.9	6.8	3.9	25.2	12.90	248	44	26.7	0.3	6.6	36	28	17.0	280.0	2.6	7.1	20	9
Week 4	229	227	7.6	22.0	458	448	7.0	20.4	404	383	20.3	-50	-140	7.4	354	243	27.7	7.0	6.0	24.6	16.74	232	57	25.2	1.0	6.6	43	34	15.2	273.3	1.9	7.2	22	14
Week 5																																		
Monthly	239	212	7.3	23.4	477	316	6.8	19.5	425	295	20.2	-47	-5	10.4	378	290	30.6	6.8	3.5	24.8	13.62	231	55	24.8	0.4	6.6	42	34	16.5	284.3	2.0	7.1	22	12
Min =	140	80	6.4	13	315	84	6.2	14	275	98	15.3	-339	-382	-2.1	200	64	14.0	6.5	0.3	22.1	7.69	120	26	10.3	0.0	6.3	13	12	7.4	220.0	0.2	6.7	12	1
Max =	375	280	7.8	30	760	710	7.2	25	635	620	25.8	218	288	24.5	600	542	44.2	7.4	9.4	26.3	36.58	308	94	34.7	5.9	6.9	94	68	26.5	360.0	4.3	7.5	35	41
									%Removal						%Removal																			
									96.83	96.95	93.68				96.44	96.90	95.82																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	DO	chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	DO	Nitrite	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
7.1	220	3	150	6.8	25	14	10	0.5	180		5.6		7.3		158.0	1190.0
9.9		3	155	7.0	21	15	7	1.1		7.0	5.5	0.486	7.4		116.0	1510.0
8.0	240	2	165	6.8	25	21	8	0.6	180		5.1		7.5		26.0	1405.0
9.4		3	160	7.1	20	15	7	0.5			5.6		7.5		292.0	943.0
9.5	220	4	185	7.0	20	12	8	0.8	160		5.9		7.5		278.0	970.0
9.6		4	160	6.9	19	12	9	1.0			4.6		7.4		50.0	1075.0
5.1		5	120	6.9	24	15	7	0.9			5.1		7.4	50.0	80.0	1105.0
6.9	220	4	130	6.6	22	16	12	0.2	200	10.3	6.2	0.104	7.3		162.0	1318.0
10.4		4	160	6.9	22	14	13	3.1			6.0		7.0		452.0	1170.0
7.4	180	4	145	6.8	14	10	7	0.4	160		5.6		7.1		148.0	955.0
7.1		6	150	7.0	12	8	7	0.3			7.6		7.7	47.0	94.0	1192.0
6.6	240	4	150	6.9	16	12	13	0.2	180		6.4		7.4		68.0	1215.0
6.6		5	135	6.8	16	10	10	0.2			6.4		7.4		276.0	388.0
7.3		2	120	6.7	ns	ns	ns	ns			6.2		7.0	51.0	430.0	193.0
8.2	200	4	120	6.8	13	9	7	0.5	140		6.9		6.9		216.0	890.0
9.6		5	140	7.0	14	8	7	1.5		10.2	6.2	0.232	7.0		348.0	995.0
10.1	220	5	150	7.1	26	18	6	2.1	160		6.1		7.5		412.0	790.0
8.7		4	145	7.2	12	17	6	1.0			6.0		7.5	123.0	264.0	400.0
11.1	220	4	160	7.1	15	8	8	2.1	160		6.2		7.5		160.0	1115.0
8.5		6	145	7.1	12	8	3	0.6			4.8		7.3		20.0	1130.0
7.7		4	125	6.9	12	8	9	1.2			4.8		7.2	73.0	120.0	1465.0
6.8	220	4	120	7.0	12	8	5	0.4	160	9.1	5.9	0.135	7.7		82.0	1515.0
10.8		5	135	7.4	26	13	5	1.9			7.7		7.6		270.0	1080.0
8.8	220	5	135	7.1	14	12	11	1.2	200		7.0		7.5		128.0	1195.0
10.5		4	145	7.1	20	11	4	3.1			6.3		7.3	87.0	196.0	1005.0
7.1	180	4	140	6.9	11	8	8	0.6	120		6.1		7.3	50.0	68.0	1310.0
6.6		4	115	6.9	22	13	8	2.2			5.1		7.3		588.0	272.0
2.8		5	105	7.2	12	8	9	0.2			5.0		7.3		ns	ns
8.9	200	6	120	7.0	12	11	10	0.5	160		7.3		7.8		112.0	1395.0
16.1		3	120	6.8	15	11	3	0.8		6.7	6.5	0.158	7.0		46.0	1390.0
17.6	260	3	130	7.0	22	16	7	10.8	140		5.9		7.2		226.0	495.0
270.8	3040.0	124.9	4335.0	215.5	526	361	234	40.4	2300.0	43.3	185.6	1.115	227.5	481.0	5886.0	31071.0
8.4	226.7	3.2	156.4	6.9	22	15	8	0.8	173.3	7.0	5.3	0.486	7.4	50.0	142.9	1171.1
7.5	213.3	4.0	141.4	6.8	17	12	10	0.7	180.0	10.3	6.4	0.104	7.3	49.0	232.9	918.7
9.1	213.3	4.4	140.7	7.0	15	11	7	1.3	153.3	10.2	5.9	0.232	7.3	98.0	220.0	969.3
7.6	206.7	4.4	127.9	7.1	17	10	7	1.4	160.0	9.1	6.2	0.135	7.4	68.5	222.0	1062.8
8.7	217.1	4.0	139.8	7.0	18	12	8	1.3	164.3	8.7	6.0	0.223	7.3	68.7	196.2	1035.7
2.8	180.0	1.6	105.0	6.6	11	8	3	0.2	120.0	6.7	4.6	0.104	6.9	47.0	20.0	193.0
17.6	260.0	5.7	185.0	7.4	26	21	13	10.8	200.0	10.3	7.7	0.486	7.8	123.0	588.0	1515.0

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				Flow (MGD)									On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
31-Jul							14.030											
1-Aug	9.600	1.655	0.678	2.320		11.920	14.740	7.580	6.180	0.870	63.591	51.846						
2-Aug	10.500	1.707	0.656	2.280		12.780	14.210	6.760	5.950	0.791	52.895	46.557						
3-Aug	10.130	1.738	0.667	2.450		12.580	15.860	6.030	6.020	0.633	47.933	47.854						
4-Aug	10.160	1.640	0.629	2.400		12.560	14.910	8.570	6.150	0.909	68.232	48.965						
5-Aug	9.800	1.635	0.630	2.190		11.990	14.470	8.180	5.730	0.746	68.224	47.790						
6-Aug	13.580	2.074	0.657	3.000		16.580	20.670	8.540	5.810	0.387	51.508	35.042						
7-Aug	12.140	1.832	0.661	2.700		14.840	17.030	7.020	5.390	0.625	47.305	36.321						
8-Aug	9.910	1.745	0.712	2.420		12.330	15.460	5.040	4.980	0.962	40.876	40.389						
9-Aug	12.420	1.954	0.685	2.910		15.330	20.640	7.420	4.110	0.776	48.402	26.810						
10-Aug	11.280	1.769	0.690	2.450		13.730	15.260	7.660	6.300	0.764	55.790	45.885						
11-Aug	10.110	1.654	0.632	2.360		12.470	14.460	8.610	6.660	0.777	69.046	53.408						
12-Aug	10.150	1.621	0.603	2.190		12.340	14.010	8.660	4.560	0.353	70.178	36.953						
13-Aug	10.460	1.815	0.595	2.670		13.130	15.940	8.640	6.430	0.274	65.804	48.972						
14-Aug	11.390	2.059	0.673	2.750		14.140	16.830	8.580	4.950	0.790	60.679	35.007						
15-Aug	10.700	1.841	0.677	2.750		13.450	16.230	8.840	5.710	0.926	65.725	42.454						
16-Aug	10.180	1.754	0.652	2.630		12.810	15.490	9.130	5.410	1.042	71.272	42.233						
17-Aug	10.200	1.717	0.666	2.440		12.640	15.270	8.190	5.480	0.791	64.794	43.354						
18-Aug	9.110	1.762	0.687	2.640		11.750	15.370	8.000	5.680	0.834	68.085	48.340						
19-Aug	11.130	1.661	0.636	2.400		13.530	15.030	7.660	5.280	0.573	56.615	39.024						
20-Aug	9.680	1.715	0.560	2.340		12.020	13.100	8.390	5.590	0.405	69.800	46.506						
21-Aug	11.110	2.097	0.694	2.970		14.080	16.170	8.870	6.030	0.495	62.997	42.827						
22-Aug	9.010	1.759	0.700	2.680		11.690	15.090	9.300	5.810	0.657	79.555	49.701						
23-Aug	10.860	1.841	0.684	2.380		13.240	14.190	9.030	3.410	0.802	68.202	25.755						
24-Aug	10.550	1.596	0.725	2.420		12.970	14.400	8.810	5.860	0.592	67.926	45.181						
25-Aug	10.200	1.771	0.648	2.730		12.930	16.980	8.800	4.470	0.864	68.059	34.571						
26-Aug	10.110	1.711	0.665	2.390		12.500	15.350	8.920	4.890	0.265	71.360	39.120						
27-Aug	29.990	4.608	0.969	6.590		36.580	50.360	5.460	2.840	0.294	14.926	7.764						
28-Aug	12.090	3.927	1.007	5.180		17.270	33.580	4.290	3.160	0.592	24.841	18.298						
29-Aug	3.750	1.509	0.537	3.940		7.690	12.120	6.480	2.300	0.647	84.265	29.909						
30-Aug	6.980	2.466	0.828	3.280		10.260	4.090	2.090	0.960	0.206	20.370	9.357						
31-Aug	7.100	1.925	0.421	2.970		10.070	17.580	8.980	6.950	0.924	89.176	69.017						
1-Sep							15.840											
2-Sep							15.620											
3-Sep							15.280											
Total	334.380	60.558	20.924	87.820	0.000	422.200	571.630	238.530	159.050	20.566	1858.432	1235.21						
Week 1	10.844	1.754	0.654	2.477	#DIV/0!	13.321	15.556	7.526	5.890	0.709	57.098	44.91						
Week 2	10.817	1.802	0.656	2.536	#DIV/0!	13.353	16.114	7.801	5.427	0.671	58.682	41.06						
Week 3	10.301	1.792	0.653	2.596	#DIV/0!	12.897	15.331	8.440	5.597	0.724	65.613	43.53						
Week 4	13.259	2.459	0.771	3.481	#DIV/0!	16.740	20.363	7.801	4.349	0.581	56.410	31.48						
Week 5							16.301											
Monthly	10.786	1.953	0.675	2.833	#DIV/0!	13.619	16.932	7.695	5.131	0.663	59.949	39.85						
Min =	3.750	1.509	0.421	2.190	0.000	7.690	4.090	2.090	0.960	0.206	14.926	7.76						
Max =	29.990	4.608	1.007	6.590	0.000	36.580	50.360	9.300	6.950	1.042	89.176	69.02						

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August 2011	City of Reading Wastewater Treatment Plant - Digester Data														
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
31-Jul															
1-Aug	7.2	153	4920	7.2	196.00	5480	7.3	230	5440	7.2	502	5840	7.2	191	5060
2-Aug															
3-Aug	7.2	396	5040	7.1	302	5420	7.3	255	5520	7.3	583	5700	7.2	379	5220
4-Aug															
5-Aug	7.3		5060	7.0		4920	7.1		5140	7.3		5780	7.2		4760
6-Aug															
7-Aug															
8-Aug	7.1	260	5120	7.3	670	6100	7.3	445	5680	7.3	951	5680	7.2	1026	4620
9-Aug															
10-Aug	7.2	164	5180	7.1	606	5020	7.1	138	5700	7.3	57	5780	7.3	696	5300
11-Aug															
12-Aug	7.1		5480	7.1		6100	7.1		5840	7.2		3600	7.3		5660
13-Aug															
14-Aug															
15-Aug	7.0	355	5260	7.0	777	6220	6.9	247	5780	7.3	919	5940	7.2	1096	4340
16-Aug															
17-Aug	6.9		5160	7.1		5840	7.2		5900	7.2		5920	7.1		2340
18-Aug															
19-Aug	7.0	238	5580	7.1	1002	6040	7.1	351	5720	7.4	153	5940	7.2	1240	4640
20-Aug															
21-Aug															
22-Aug	7.1	126	5380	7.0	379	6500	6.8	521	5840	7.2	134	5900	7.2	826	1420
23-Aug															
24-Aug	6.9		5400	6.7		6400	6.8		5240	7.4		5740	7.2		5140
25-Aug															
26-Aug	7.3	191	5200	7.3	559	6400	7.2	368	5500	7.3	281	5920	7.3	664	5620
27-Aug															
28-Aug															
29-Aug	7.1	747	3560	7.3	1502	6060	7.3	96	5080	7.2	943	5860	7.2	553	4940
30-Aug															
31-Aug	7.3		5060	7.3		5920	7.4		4920	7.4		5460	7.2		5080
1-Sep															
2-Sep															
3-Sep															
Total	99.6	2630	71400	99.5	5993	82420	99.8	2651	77300	101.9	4523	79060	100.7	6671	64140
Week 1	7.2	275	5007	7.1	249	5273	7.2	243	5367	7.3	543	5773	7.2	285	5013
Week 2	7.1	212	5260	7.1	638	5740	7.2	292	5740	7.2	504	5020	7.2	861	5193
Week 3	6.9	297	5333	7.0	890	6033	7.1	299	5800	7.3	536	5933	7.1	1,168	3773
Week 4	7.1	159	5327	7.0	469	6433	6.9	445	5527	7.3	208	5853	7.2	745	4060
Week 5															
Monthly	7.1	292	5100	7.1	666	5887	7.1	295	5521	7.3	503	5647	7.2	741	4581
Min =	6.9	126	3560	6.7	196	4920	6.8	96	4920	7.2	57	3600	7.1	191	1420
Max =	7.3	747	5580	7.3	1502	6500	7.4	521	5900	7.4	951	5940	7.3	1240	5660

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August 2011
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Aug	0.02	0.04	0.05	0.04	0.03	0.01	0.03	
2-Aug	0.00	0.04	0.03	0.03	0.02	0.01	0.02	
3-Aug	0.00	0.03	0.03	0.03	0.02	0.01	0.02	
4-Aug	0.01	0.03	0.03	0.02	0.02	0.03	0.02	
5-Aug	0.01	0.03	0.04	0.02	0.00	0.01	0.02	
6-Aug	0.01	0.03	0.04	0.03	0.02	0.03	0.03	
7-Aug	0.02	0.02	0.03	0.02	0.03	0.02	0.02	
8-Aug	0.02	0.03	0.07	0.04	0.04	0.02	0.04	
9-Aug	0.03	0.03	0.04	0.04	0.29	0.01	0.07	
10-Aug	0.00	0.04	0.05	0.03	0.02	0.03	0.03	
11-Aug	0.03	0.04	0.04	0.00	0.01	0.02	0.02	
12-Aug	0.02	0.03	0.03	0.03	0.02	0.04	0.03	
13-Aug	0.02	0.03	0.04	0.03	0.02	0.01	0.03	
14-Aug	0.02	0.01	0.00	0.02	0.01	0.02	0.01	
15-Aug	0.02	0.01	0.00	0.00	0.03	0.02	0.02	0.03
16-Aug	0.03	0.01	0.02	0.04	0.03	0.04	0.03	
17-Aug	0.03	0.08	0.00	0.06	0.05	0.10	0.05	
18-Aug	0.04	0.03	0.04	0.16	0.05	0.26	0.10	
19-Aug	0.03	0.03	0.03	0.03	0.02	0.02	0.03	
20-Aug	0.03	0.04	0.03	0.02	0.02	0.03	0.03	
21-Aug	0.04	0.00	0.04	0.05	0.04	0.04	0.04	
22-Aug	0.02	0.02	0.00	0.02	0.01	0.01	0.01	
23-Aug	0.02	0.03	0.01	0.06	0.02	0.03	0.03	
24-Aug	0.03	0.01	0.00	0.02	0.01	0.02	0.02	
25-Aug	0.03	0.00	0.00	0.02	0.02	0.03	0.02	
26-Aug	0.03	0.04	0.00	0.02	0.03	0.04	0.03	
27-Aug	0.04	0.05	0.04	0.04	0.05	0.05	0.05	
28-Aug	0.01	0.02	0.13	0.01	0.02	0.03	0.04	
29-Aug	0.02	0.01	0.02	0.02	0.02	0.02	0.02	
30-Aug	0.03	0.08	0.05	0.02	0.03	0.03	0.04	
31-Aug	0.02	0.06	0.16	0.04	0.03	0.04	0.06	
Average	0.02	0.03	0.04	0.03	0.03	0.03	0.03	
Minimum	0.00	0.00	0.00	0.00	0.00	0.01		
Maximum	0.04	0.08	0.16	0.16	0.29	0.26		

Dissolved Oxygen -August 2011

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
8/1/2011	6.7	6.7	6.4	7.0	6.8	6.3	6.3	6.3	
8/2/2011	6.3	6.4	6.3	6.9	6.4	6.2	6.0	6.0	
8/3/2011	6.2	6.3	6.0	6.8	6.7	6.5	5.7	5.7	
8/4/2011	6.5	6.5	6.6	6.9	7.1	6.8	6.0	6.0	
8/5/2011	6.7	6.7	6.8	6.7	6.4	6.5	6.3	6.3	
8/6/2011	6.4	6.5	6.4	6.9	6.7	6.5	6.1	6.1	
8/7/2011	6.3	6.2	6.2	6.2	6.6	6.8	5.5	5.5	
8/8/2011	6.8	6.8	6.8	7.4	7.1	6.9	6.5	6.5	
8/9/2011	6.9	6.8	6.7	6.8	6.4	6.0	6.5	6.0	
8/10/2011	6.2	6.4	6.5	7.4	7.2	7.0	5.9	5.9	
8/11/2011	7.1	7.1	7.1	7.6	7.4	7.1	8.0	7.1	
8/12/2011	7.3	7.2	7.1	7.5	7.4	7.3	6.9	6.9	
8/13/2011	7.2	7.2	7.0	7.5	7.3	6.8	6.9	6.8	
8/14/2011	6.7	6.7	6.8	7.0	7.0	6.8	6.7	6.7	
8/15/2011	6.7	6.8	7.1	7.0	6.8	6.5	6.8	6.5	
8/16/2011	6.6	6.9	6.9	7.0	6.8	6.6	6.8	6.6	
8/17/2011	6.7	6.8	6.7	7.0	6.7	6.4	6.7	6.4	
8/18/2011	6.4	6.4	6.7	7.1	6.8	6.6	6.4	6.4	
8/19/2011	6.6	6.6	6.7	6.7	6.6	6.3	6.5	6.3	
8/20/2011	6.4	6.6	6.4	6.8	6.9	6.8	6.5	6.4	
8/21/2011	6.7	6.8	6.8	7.1	6.9	6.4	6.7	6.4	
8/22/2011	6.4	6.4	6.4	7.1	7.1	7.1	6.4	6.4	
8/23/2011	7.2	7.3	7.1	7.3	7.0	6.7	8.4	6.7	
8/24/2011	6.7	6.7	7.9	6.8	6.8	6.8	7.9	6.7	
8/25/2011	6.7	6.7	6.8	6.7	6.7	6.4	6.7	6.4	
8/26/2011	6.5	6.5	6.8	6.8	6.7	6.6	6.5	6.5	
8/27/2011	6.6	6.6	6.6	6.8	7.1	6.8	6.4	6.4	
8/28/2011	6.9	5.7	6.3	7.1	7.2	7.3	6.2	5.7	
8/29/2011	7.4	7.6	7.8	7.6	7.4	7.2	7.7	7.2	
8/30/2011	8.0	8.6	7.2	7.4	7.2	7.1	7.1	7.1	
8/31/2011	7.0	6.4	6.2	6.6	6.4	6.3	6.8	6.2	
Min	6.20	5.70	6.00	6.20	6.40	6.00	5.5	Min	5.54
Max	8.00	8.60	7.90	7.60	7.40	7.30	8.4	Max	7.20
								Avg	6.39

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* August 2011

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X	% Solids	X	Conv. Factor	=	Dry Tons
	X		X	0.0000417	=	0.00
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
	X		X	0.0000417	=	
				TOTAL	=	0.00

Hauled as dewatered sludge

Tons dewatered sludge	X	% Solids	X	0.01	=	Dry Tons
0.00	X	21.24	X	0.01	=	0.00
0.00	X	21.24	X	0.01	=	0.00
0.00	X	21.24	X	0.01	=	0.00
937.95	X	21.24	X	0.01	=	199.22
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
	X		X	0.01	=	
				TOTAL	=	199.22

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	199.22
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

09/21/11
Date

City of Reading 3-C Watershed *for the Month* August 2011

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	07/01/2011	TO	07/31/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

RECEIVED
EPA REGION III
AUG 23 2011
WATER PROTECTION DIVISION
(3WP00)

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	83	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	5.7	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	7.9		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1264	1693		******	11	14		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	90	******		******	0.7	******		0	Daily	COMP24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	14.54	18.48		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.04	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Wastewater Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	610-655-6258 AREA Code / NUMBER		08/17/2011 MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	07/01/2011	TO	07/31/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01213	******		******	<0.00010	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	17	******		0	Daily	GRAB
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	200 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1251	1340		******	10	11		0	Daily	COMP24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Wastewater Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		08/17/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

RECEIVED
EPA REGION III
AUG 23 2011
WATER PROTECTION DIVISION
(3WP00)

City of Reading Wastewater Treatment Plant

July 2011

	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Jul	22.0	19	14	13	0.4	13.20	[redacted]	7.4	0.55		15	75	0.00	59	93
2-Jul	21.5	17	9	17	0.2	13.47	[redacted]	7.6	0.61		8	75	0.00	62	95
3-Jul	22.8	14	9	8	0.2	13.70	[redacted]	7.5	0.67		3	75	0.01	70	92
4-Jul	21.6	11	6	11	0.1	13.78	[redacted]	7.5	0.40		27	75	0.00	68	90
5-Jul	23.1	25	12	23	0.6	13.45	[redacted]	7.8	0.91		7	85	0.00	64	93
6-Jul	23.6	19	11	16	1.6	14.71	[redacted]	7.5	0.46		8	85	0.00	67	95
7-Jul	23.1	18	11	18	1.5	14.42	[redacted]	7.4	0.45		26	85	0.00	70	97
8-Jul	23.1	22	16	10	1.6	15.23	[redacted]	7.7	0.48		9	85	0.35	71	88
9-Jul	23.6	17	13	15	0.4	13.57	[redacted]	7.6	0.44		10	75	0.00	68	95
10-Jul	21.3	13	10	11	0.2	13.66	[redacted]	7.5	0.70		2	85	0.00	62	94
11-Jul	22.8	17	14	10	0.3	14.49	[redacted]	7.3	0.76		1	85	0.00	69	94
12-Jul	23.1	15	13	9	0.3	14.41	[redacted]	7.5	0.54		29	85	0.00	76	94
13-Jul	24.4	16	15	15	0.5	14.06	[redacted]	7.6	0.75		124	100	0.00	70	92
14-Jul	21.7	11	10	12	0.4	14.42	[redacted]	7.5	0.38		52	85	0.00	63	90
15-Jul	21.9	8	6	12	0.2	13.90	[redacted]	7.5	0.37		80	85	0.00	61	90
16-Jul	22.9	9	8	9	0.2	13.21	[redacted]	7.6	0.76		712	75	0.00	62	89
17-Jul	23.4	8	7	8	0.1	15.97	[redacted]	7.4	0.72		160	85	0.00	66	95
18-Jul	23.8	17	13	7	0.4	15.07	[redacted]	7.4	0.67		8	85	0.00	70	95
19-Jul	24.1	16	10	9	0.8	14.90	[redacted]	7.4	0.32		33	75	0.07	74	100
20-Jul	23.6	17	10	11	0.6	14.89	[redacted]	7.7	0.38		35	100	0.00	70	97
21-Jul	24.8	17	9	9	1.4	15.19	[redacted]	7.8	0.41		24	85	0.00	75	101
22-Jul	25.3	19	14	5	1.6	15.12	[redacted]	7.6	0.35		16	85	0.00	78	106
23-Jul	24.4	16	12	9	0.6	14.25	[redacted]	7.9	0.38		6	75	0.00	75	103
24-Jul	23.6	13	7	8	0.3	13.92	[redacted]	7.5	0.39		9	85	0.00	76	96
25-Jul	24.3	15	9	9	3.0	18.48	[redacted]	7.4	0.38		11	85	0.79	73	90
26-Jul	23.2	15	9	8	0.8	15.52	[redacted]	7.5	0.40		72	85	0.09	73	93
27-Jul	24.6	14	8	8	0.9	14.35	[redacted]	7.4	0.41		31	85	0.00	63	92
28-Jul	23.8	17	13	4	0.8	17.16	[redacted]	7.4	0.42		16	85	0.19	69	89
29-Jul	24.7	11	8	6	1.3	14.66	[redacted]	7.5	0.39		32	85	0.09	74	97
30-Jul	23.6	10	6	5	0.4	13.61	[redacted]	7.4	0.57		7	85	0.00	71	98
31-Jul	24.7	10	7	12	0.2	14.03	[redacted]	7.4	0.67		1.3	75	0.00	66	99
						[redacted]					<				
TOTAL		466	319	327	22.1	450.8		233.1	16.09			2575	1.59		
Week 1	22.5	18	11	14	0.7	13.82	6.79	7.52	0.58		13	79	0.00	66	94
Week 2	22.9	13	11	11	0.5	14.26	6.58	7.52	0.58		32	86	0.05	68	92
Week 3	23.5	16	11	8	0.6	14.73	6.82	7.55	0.52		150	84	0.01	68	95
Week 4	24.2	14	9	7	1.1	15.54	6.24	7.54	0.39		23	84	0.15	72	96
Monthly	23.4	15	10	11	0.7	14.54	6.55	7.52	0.52		17	83	0.05	69	95
Weekly averages: 7/3-9, 7/10-16, 7/17-23, and 7/24-30. 7/31 will be included in August weekly averages.															
Min =	21.3	8	6	4	0.1	13.20	5.7	7.3	0.32		1	75	0.00	59	88
Max =	25.3	25	16	23	3.0	18.48	7.1	7.9	0.91		712	100	0.79	78	106
All weekly averages reflect the schedule seen above.															
DISCHARGE LIMITATIONS															
Ave Monthly:			20	30	6		Min.	6.0			200	186			
Ave Weekly:			30	45			of	to							
Inst. Max:			40	60	12		5.0	9.0				465			

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Jul	5,638	42,751	48,388	-750		47,638	2,092	1,541	6,455	17,878	24,333	2,464	26,796	1,431	273	566	1,516	2082	449	2,769	2,531	47
2-Jul	6,912	47,813	54,725	6,486		61,211	1,910	1,011	6,933	28,992	35,925	-4,056	31,869	1,910	335	523	1,260	1,783	656	1,172	2,439	26
3-Jul	6,845	52,062	58,907	-12,536		46,370	1,600	1,028	7,192	43,240	50,432	-20,755	29,677	914	259	490	1,359	1,850	51	625	1,901	17
4-Jul	4,183	34,061	38,244	3,552		41,796	1,264	690	7,706	29,633	37,339	-13,547	23,792	1,264		495	1,541	2,037	868		2,904	13
5-Jul	7,414	42,734	50,148	14,537	642	64,685	2,804	1,346	7,160	23,361	30,521	9,029	39,550	2,580	759	483	1,332	1,815	2,075	7,823	3,890	64
6-Jul	5,362	45,910	51,272	-9,072		42,200	2,331	1,349	6,867	40,171	47,039	-27,627	19,412	1,963	778	527	1,467	1,994	2,226	9,539	4,220	201
7-Jul	5,790	51,841	57,632	-16,439	1,063	41,193	2,165	1,323	5,419	27,402	32,821	-1,240	31,581	2,165	547	500	1,740	2,241	2,359	8,018	4,600	177
8-Jul	5,654	44,365	50,020	-15,882		34,137	2,794	2,032	4,886	24,902	29,788	-2,858	26,931	1,270	660	531	1,209	1,740	1,314	4,245	3,053	203
9-Jul	7,320	55,097	62,417	-1,843		60,573	1,924	1,471	7,735	24,026	31,761	-2,147	29,614	1,698	772	564	1,843	2,406	746	4,008	3,152	46
10-Jul	6,936	49,289	56,225	4,192	348	60,417	1,481	1,139	3,435	29,902	33,337	-2,087	31,250	1,253	1,460	568	1,668	2,236	827	5,705	3,062	24
11-Jul	7,905	55,404	63,309	-25,434		37,875	2,054	1,692	5,211	37,571	42,782	-23,844	18,938	1,208	1,133	512	1,610	2,122	1,643	5,146	3,766	32
12-Jul	6,156	42,631	48,787	-1,139		47,648	1,803	1,562	5,271	50,993	56,263	-23,117	33,146	1,082	700	471	1,517	1,988	1,710	6,997	3,698	41
13-Jul	4,153	31,380	35,533	2,414		37,947	1,876	1,759	8,307	38,042	46,348	-11,003	35,345	1,759	1,189	488	1,683	2,171	1,906	5,129	4,077	53
14-Jul	2,077	21,742	23,819	-3,306	57	20,513	1,323	1,203	5,773	27,106	32,879	-4,720	28,159	1,443	283	463	1,500	1,963	23	957	1,986	51
15-Jul	2,067	22,810	24,877	17,274		42,150	927	696	5,944	54,196	60,140	-20,208	39,932	1,391	1,307	445	1,852	2,297	1,508	893	3,805	27
16-Jul	1,918	23,696	25,615	3,463		29,078	992	881	6,253	18,205	24,458	9,907	34,365	992	889	460	1,444	1,905	550	900	2,455	27
17-Jul	5,474	22,304	27,778	-5,559	200	22,219	1,066	932	5,488	27,900	33,388	8,425	41,813	1,066		502	1,458	1,960	999		2,959	15
18-Jul	5,170	48,819	53,989	-16,276		37,713	2,137	1,634	3,118	38,694	41,812	-22,734	19,079	880	1,288	433	1,618	2,051	2,064	6,247	4,115	52
19-Jul	5,006	30,057	35,063	-2,567		32,496	1,988	1,243	5,353	20,890	26,243	15,428	41,671	1,118	1,209	476	1,465	1,941	1,232	1,666	3,173	103
20-Jul	6,722	35,611	42,333	1,137		43,470	2,111	1,242	8,191	8,944	17,135	20,332	37,467	1,366	2,177	494	1,598	2,093	1,830	5,532	3,923	80
21-Jul	4,665	36,177	40,842	-1,390	456	39,452	2,154	1,140	2,402	30,530	32,932	-26,447	6,485	1,140	1,925	528	1,712	2,240	1,867	5,668	4,107	175
22-Jul	8,302	46,324	54,625	-17,974		36,652	2,396	1,765	3,518	14,334	17,852	-7,564	10,288	631	1,559	463	1,582	2,045	1,996	5,197	4,040	202
23-Jul	6,418	53,173	59,591	-16,814		42,777	1,902	1,426	3,707	43,044	46,752	-43,518	3,234	1,070	395	486	1,680	2,166	703	5,320	2,869	77
24-Jul	4,393	32,297	36,689	3,559	191	40,249	1,509	813	5,730	47,056	52,786	-13,808	38,978	929	395	462	1,702	2,164	1,077	5,477	3,241	35
25-Jul	5,418	46,915	52,333	-13,693		38,640	2,312	1,387	2,522	28,885	31,407	2,734	34,141	1,387	1,699	535	1,591	2,126	2,395	8,568	4,521	459
26-Jul	4,785	42,584	47,369	-13,444		33,925	1,942	1,165	4,636	37,215	41,851	-15,895	25,956	1,035	1,513	583	1,805	2,388	2,769	11,148	5,157	105
27-Jul	5,474	40,627	46,101	-3,862		42,239	1,676	957	5,488	24,553	30,041	9,612	39,653	957	1,492	502	1,758	2,260	1,781	7,639	4,041	105
28-Jul	6,715	41,702	48,417	-6,728	614	41,689	2,433	1,860	6,429	49,679	56,109	-22,306	33,802	572	891	579	1,596	2,175	1,803	8,142	3,977	108
29-Jul	6,503	42,631	49,134	-18,835		30,299	1,345	978	8,443	42,631	51,073	-38,752	12,322	734	520	487	1,574	2,061	696	2,195	2,757	161
30-Jul	3,831	29,790	33,622	7,431	156	41,053	1,135	681	774	27,282	28,056	7,523	35,579	568	1,160	437	1,458	1,895	998	1,333	2,893	44
31-Jul	4,477	37,356	41,833	-7,890		33,942	1,170	819	3,785	33,382	37,167	-1,627	35,539	1,404	3,916	503	1,526	2,029	1,296		3,324	26
Average values used for loadings due to no samples for that day.																						
TOTAL	169,683	1,249,954	1,419,637	-147,390	3,727	1,272,247	56,613	38,767	170,133	990,637	1,160,770	-264,406	896,364	39,179	31,483	15,556	48,665	64,221	42,417	138,055	106,638	2,796
Week 1	6,021	45,310	51,331	-2,032	852	49,299	2,126	1,320	6,819	30,097	36,916	-7,962	28,954	1,693	492	512	1,459	1,972	1,241	4,991	3,212	78
Week 2	5,743	42,844	48,587	-5,857	203	42,730	1,494	1,276	5,802	33,220	39,023	-9,968	29,055	1,304	885	514	1,576	2,089	1,167	4,598	3,256	64
Week 3	4,432	31,354	35,785	-560	328	35,225	1,965	1,340	5,250	28,480	33,730	-2,185	31,545	1,039	1,466	477	1,593	2,070	1,436	3,484	3,505	68
Week 4	5,929	43,374	49,304	-9,851	403	39,453	1,764	1,120	4,576	34,967	39,543	-12,964	26,579	883	1,135	516	1,673	2,189	1,789	7,356	3,978	156
Monthly	5,474	40,321	45,795	-4,755	414	41,040	1,826	1,251	5,488	31,956	37,444	-8,529	28,915	1,264	1,086	502	1,570	2,072	1,368	4,931	3,440	90
Min =	1918	21742	23819	-25434	57	20,513	927	681	774	8,944	17,135	-43,518	3,234	568	259	433	1,209	1,740	23	625	1,901	13
Max =	8302	55404	63309	17274	1063	64,685	2,804	2,032	8,443	54,196	60,140	20,332	41,813	2,580	3,916	583	1,852	2,406	2,769	11,148	5,157	459
								3,336						7,130								1,000
								5,004						10,696								

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	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Jul								
2-Jul								
3-Jul								
4-Jul								
5-Jul	0.00060	0.01271	< 0.00010	0.00712	0.00020	0.01848	< 0.00010	0.01122
6-Jul								
7-Jul	< 0.00010	< 0.00219	< 0.00010	< 0.00926	0.00050	0.05721	< 0.00010	< 0.01203
8-Jul								
9-Jul								
10-Jul								
11-Jul								
12-Jul	< 0.00010	< 0.00216	< 0.00010	< 0.00820	< 0.00010	< 0.01036	< 0.00010	< 0.01202
13-Jul								
14-Jul								
15-Jul								
16-Jul								
17-Jul								
18-Jul								
19-Jul	< 0.00010	< 0.00204	0.00010	0.00751	0.00030	0.02867	< 0.00010	< 0.01243
20-Jul								
21-Jul								
22-Jul								
23-Jul								
24-Jul								
25-Jul								
26-Jul	< 0.00010	< 0.00213	< 0.00010	< 0.00926	< 0.00010	< 0.01138	< 0.00010	< 0.01294
27-Jul								
28-Jul								
29-Jul								
30-Jul								
31-Jul								
Total	0.00100	0.02123	0.00050	0.04135	0.00120	0.12611	0.00050	0.06063
Week 1	< 0.00035	< 0.00745	< 0.00010	< 0.00819	0.00035	0.03785	< 0.00010	< 0.01162
Week 2	< 0.00010	< 0.00216	< 0.00010	< 0.00820	< 0.00010	< 0.01036	< 0.00010	< 0.01202
Week 3	< 0.00010	< 0.00204	0.00010	0.00751	0.00030	0.02867	< 0.00010	< 0.01243
Week 4	< 0.00010	< 0.00213	< 0.00010	< 0.00926	< 0.00010	< 0.01138	< 0.00010	< 0.01294
Monthly	< 0.00020	< 0.00425	< 0.00010	< 0.00827	< 0.00024	< 0.02522	< 0.00010	< 0.01213
Min =	< 0.00010	< 0.00204	0.00010	0.00712	0.00010	0.01036	< 0.00010	< 0.01122
Max =	0.00060	0.01271	0.00010	0.00926	0.00050	0.05721	< 0.00010	< 0.01294
							0.00023	0.055
							0.00046	

Print Date: 8/17/2011

	July 2011				City of Reading Wastewater Treatment Plant																			Laboratory Process Control Data									
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent							
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jul	262	300	7.4	26.3	550	230	8.2	19.5	488	245	21.0	-8	25	4.5	480	270	25.5	6.6	6.5	22.1	11.90	265	56	24.4	0.1	6.4	34	24	14.9	280	2.2	7.0	18	14
2-Jul	325	326	7.2	24.6	630	382	6.8	16.6	563	370	18.4	67	-42	6.7	630	328	25.1	6.8	1.1	23.1	11.65	115	123	19.7	0.7	6.5	30	21	17.6		4.7	7.1	14	12
3-Jul	335	352	7.3	24.0	720	598	6.9	18.8	635	544	19.9	-135	-224	0.6	500	320	20.5	7.0	2.7	23.4	11.12	222	56	23.1	0.1	6.5	32	19	16.1		3.8	7.1	22	4
4-Jul	190	350	7.3	22.5	400	348	7.5	18.1	357	348	19.0	33	-126	8.1	390	222	27.1	6.5	2.1	23.3	12.85	242	60	20.7	0.1	6.7	35	31	12.2	280	4.0	7.2	21	14
5-Jul	350	338	7.5	22.8	600	328	6.8	18.7	543	330	19.6	157	98	22.5	700	428	42.1	6.8	1.8	21.1	11.08	258	123	28.4	6.1	6.5	51	44	16.8		2.4	7.0	33	19
6-Jul	228	292	7.3	22.4	560	490	6.8	17.9	486	446	18.9	-86	-262	21.1	400	184	40.0	7.0	1.7	23.9	12.65	170	111	21.6	0.2	6.6	36	35	17.6	300	3.7	7.1	28	17
7-Jul	265	248	7.3	22.9	560	296	6.8	18.8	504	287	19.6	-144	-11	20.6	360	276	40.2	7.0	2.8	23.1	13.72	282	58	29.3	1.1	6.3	ns	ns	ns		2.6	6.9	17	11
8-Jul	243	210	7.2	22.8	620	348	6.9	16.9	527	314	18.3	-167	-30	13.9	360	284	32.2	6.9	1.7	23.2	11.37	100	91	19.9	0.1	6.5	32	15	16.5	280	1.4	7.0	32	20
9-Jul	335	354	7.1	25.8	610	266	6.7	20.4	556	283	21.5	-16	-19	6.6	540	264	28.1	6.7	0.8	23.2	13.45	195	90	20.1	0.2	6.5	37	25	15.8		4.5	7.0	28	15
10-Jul	315	156	7.1	25.8	600	364	6.8	20.3	540	320	21.5	40	-20	7.9	580	300	29.4	6.5	0.8	23.0	12.49	ns	ns	ns	0.2	6.5	33	27	16.3		1.9	6.1	29	23
11-Jul	355	234	7.3	23.0	640	434	6.9	18.6	582	393	19.5	-234	-219	15.1	348	174	34.6	6.9	5.2	23.1	13.05	235	59	25.3	0.2	6.5	34	25	16.8	280	0.8	7.0	26	10
12-Jul	285	244	7.2	21.8	520	622	6.9	18.5	471	543	19.2	-11	-223	16.5	460	320	35.7	6.9	1.6	24.2	12.42	288	40	24.8	0.1	6.5	48	37	15.6		3.5	7.3	37	30
13-Jul	200	400	7.5	23.5	358	434	6.9	19.2	328	427	20.0	22	-101	17.6	350	326	37.6	7.4	4.8	24.9	13.00	180	81	27.9	0.1	6.6	35	34	19.6	300	3.1	7.3	26	19
14-Jul	100	278	7.4	22.3	300	374	6.8	20.7	255	353	21.1	-35	-51	0.2	220	302	21.3	6.5	4.7	24.2	11.18	145	62	23.0	0.1	6.4	26	25	15.9		0.5	7.0	26	17
15-Jul	105	302	7.3	22.6	250	594	6.8	20.3	224	542	20.7	156	-182	13.6	380	360	34.3	6.8	2.9	23.9	13.30	160	58	26.5	0.1	6.5	13	26	16.4	300	1.5	7.1	16	14
16-Jul	100	326	7.2	24.0	315	242	6.9	19.2	271	259	20.2	37	105	5.8	308	364	26.0	6.8	0.9	23.0	11.32	110	77	17.0	0.2	6.2	15	21	16.0		0.8	7.1	18	19
17-Jul	ns	ns	7.5	ns	283	354	7.2	18.5	275	331	19.4	-55	83	9.9	220	414	29.3	6.5	1.8	22.7	12.11	260	67	31.2	0.3	6.5	26	31	16.9		0.6	7.1	17	45
18-Jul	252	152	7.3	21.1	540	428	6.8	17.9	487	377	18.5	-147	-205	18.6	340	172	37.1	7.1	3.2	23.7	13.30	240	66	27.4	0.2	6.6	26	11	17.5	300	4.3	7.3	16	3
19-Jul	245	262	7.4	23.3	400	278	6.9	19.5	367	275	20.3	-27	161	12.9	340	436	33.2	6.9	4.1	23.7	11.46	248	59	23.9	0.2	6.6	46	35	16.5		3.6	7.3	ns	ns
20-Jul	325	396	7.3	23.9	430	108	6.8	19.3	409	166	20.2	11	196	17.7	420	362	37.9	7.0	3.8	23.4	12.41	235	55	29.5	0.4	6.4	38	29	20.6	380	1.0	7.0	30	17
21-Jul	235	121	7.3	26.6	410	346	6.7	19.4	378	305	20.7	-13	-245	17.3	365	60	38.0	6.8	1.3	24.9	12.96	198	84	29.2	0.7	6.5	38	23	22.4		3.3	7.1	34	23
22-Jul	420	178	7.2	23.4	530	164	6.9	18.1	510	167	19.1	-168	-71	18.6	342	96	37.7	6.8	3.0	24.4	12.85	272	60	24.2	0.3	6.6	44	14	21.4	300	1.0	6.7	28	6
23-Jul	322	186	7.2	24.4	630	510	6.8	19.9	571	448	20.8	-161	-417	6.7	410	31	27.5	6.7	1.3	24.4	12.51	192	48	26.7	0.5	6.7	24	15	18.1		4.7	7.2	24	31
24-Jul	230	300	7.2	'24.2	372	542	6.9	19.6	346	498	20.4	34	-130	10.2	380	368	30.6	6.8	1.4	24.2	12.70	220	52	26.3	0.0	6.6	22	23	17.1		3.3	7.2	20	9
25-Jul	232	108	7.3	22.9	510	314	6.8	17.3	454	272	18.4	-119	24	20.8	335	296	39.2	7.2	5.2	25.5	13.83	205	50	27.0	0.1	6.8	22	54	19.4	280	3.7	7.4	31	25
26-Jul	225	218	7.6	27.4	460	402	6.9	19.5	416	368	21.0	-118	-140	24.3	298	228	45.3	7.1	5.5	24.5	13.65	245	40	32.0	0.4	6.5	36	20	20.5		0.2	6.8	24	17
27-Jul	ns	ns	7.4	ns	460	278	6.8	19.9	428	279	21.0	-36	89	16.5	392	368	37.5	7.0	4.0	24.8	12.92	212	43	31.3	0.1	6.6	34	27	20.4	220	0.1	7.1	20	5
28-Jul	305	292	ns	26.3	460	548	6.9	17.6	430	498	19.3	-60	-198	16.0	370	300	35.3	6.9	1.7	24.8	13.51	245	49	24.8	0.1	6.5	36	26	16.5		2.2	7.2	30	14
29-Jul	342	444	7.2	25.6	520	520	6.7	19.2	486	506	20.4	-186	-384	6.9	300	122	27.3	7.0	2.5	24.7	12.11	225	40	24.3	0.1	6.5	28	24	16.3	280	0.9	6.9	22	16
30-Jul	198	40	7.3	22.6	380	348	7.1	18.6	344	287	19.4	76	77	10.2	420	364	29.6	6.6	0.6	25.4	11.72	212	34	24.0	0.1	6.5	31	23	15.6		3.0	6.8	25	22
31-Jul	220	186	7.2	24.7	470	420	6.9	19.2	419	372	20.3	-79	-16	13.0	340	356	33.3	6.7	4.2	25.4	11.97	242	55	25.5	0.1	6.6	43	37	14.4		1.4	7.0	38	26
TOTAL	7544	7593	219.1	693.5	15088	11910	214	586.0	13650	11152	617.5	-1372	-2457	401.0	12278	8695	1018.5	###	85.4	739.2	386.56	6418	1947	759.0	13.2	###	985	801	517.7	3780.0	74.8	218.1	750	517
Week 1	279	315	7.3	23.6	574	382	7.1	18.3	511	367	19.5	-16	-77	12.0	494	290	31.5	6.8	2.6	22.9	12.14	222	84	23.9	1.2	6.5	36	29	15.9	286.7	3.3	7.0	22	13
Week 2	262	268	7.2	23.6	521	406	6.8	19.2	466	376	20.1	-57	-95	11.1	408	281	31.3	6.8	2.8	23.7	12.42	191	71	23.5	0.1	6.5	35	27	16.6	286.7	2.3	6.9	29	19
Week 3	210	260	7.3	23.6	375	336	6.9	19.2	344	322	20.0	-5	-12	13.7	339	310	33.7	6.8	2.6	23.6	12.41	207	67	26.4	0.3	6.5	29	25	18.0	326.7	2.2	7.1	22	20
Week 4	289	214	7.3	24.8	489	394	6.8	18.8	451	361	20.0	-90	-120	16.2	361	241	36.2	6.9	3.2	24.7	13.14	227	49	27.5	0.2	6.6	31	26	19.1	266.7	2.2	7.1	25	15
Monthly	260	262	7.3	23.9	487	384	6.9	18.9	440	360	19.9	-44	-79	12.9	396	280	32.9	6.8	2.8	23.8	12.47	214	65	25.3	0.4	6.5	33	27	17.3	290.8	2.4	7.0	25	17
Min =	100	40	7.1	21	250	108	6.7	17	224	166	18.3	-234	-417	0.2	220	31	20.5	6.5	0.6	21.1	11.08	100	34	17.0	0.0	6.2	13	11	12.2	220.0	0.1	6.1	14	3
Max =	420	444	7.6	27	720	622	8.2	21	635	544	21.5	157	196	24.3	700	436	45.3	7.4	6.5	25.5	13.83	288	123	32.0	6.1	6.8	51	54	22.4	380.0	4.7	7.4	38	45
									%Removal						%Removal																			
									96.59	97.07	96.43				96.20	96.24	97.83																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	DO	chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	DO	Nitrite	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
5.9	220	5.5	165	7.1	20	15	16	0.4	160		7.6		7.2		95.0	965.0
7.2		3.9	130	7.0	22	17	21	0.5			6.9		7.2		110.0	385.0
6.8		4.2	135	6.8	18	16	7	0.2			6.7		7.1		160.0	386.0
4.3	240	4.3	125	7.0	14	13	8	0.1	200		6.8		7.5		ns	ns
8.9		4.9	150	7.0	33	18	20	0.5		9.4	7.0	0.071	7.0	110.0	130.0	1340.0
10.7	200	4.2	150	6.8	17	11	7	1.6	140		6.2		7.0		102.0	1250.0
10.7		4.7	155	6.9	22	13	12	1.6			5.9		7.2	167.0	86.0	1260.0
10.0	200	4.7	155	6.9	25	18	9	1.6	160		1.3		7.2		210.0	1350.0
8.5		3.4	135	6.8	22	17	9	0.5			6.5		7.2		257.0	1335.0
7.1		4.9	125	6.9	ns	ns	ns	ns			6.4		7.1	77.0	323.0	1262.0
8.5	240	4.6	135	6.6	20	14	9	0.3	200		6.6		7.2		184.0	836.0
8.4		4.4	150	7.0	15	14	5	0.3		11.2	6.0	0.115	7.4		118.0	1180.0
9.9	200	4.3	165	6.8	19	15	10	0.7	200		6.4		7.6		203.0	876.0
8.5		4.5	165	7.1	15	10	13	0.5			6.3		7.3	67.0	333.0	1125.0
6.4	280	5.5	165	7.1	8	6	9	0.2	220		7.9		7.5		373.0	255.0
7.2		3.7	135	6.8	8	8	7	0.2			6.5		7.2		410.0	415.0
7.4		5.1	125	6.8	14	12	4	0.2			6.6		7.3	34.0	ns	ns
8.5	220	4.5	130	6.7	18	13	4	0.4	160		7.1		7.7		234.0	1135.0
ns		4.4	ns	7.0	24	19	27	0.8			6.2		7.4		318.0	438.0
10.0	220	5.0	150	7.0	29	17	27	0.6	240	4.1	6.0	0.153	6.8		392.0	996.0
11.7		4.2	145	6.5	19	10	8	1.4			6.6		7.4	80.0	338.0	995.0
10.6	200	4.8	145	6.8	29	18	4	1.9	140		6.5		7.1		303.0	1010.0
9.0		3.8	140	6.8	18	12	7	0.6			6.8		7.1		117.0	1575.0
8.2		2.0	125	6.9	15	10	7	0.3			5.9		7.2	42.0	87.0	1205.0
9.9	200	3.5	125	6.9	23	15	10	2.9	140		6.2		7.5		240.0	1210.0
10.3		3.4	130	6.6	17	10	10	0.8			5.4		7.1		193.0	1422.0
10.2	240	6.2	145	7.0	24	12	7	0.7	240	7.9	6.1	0.315	7.3		208.0	1065.0
8.9		4.2	175	6.9	21	17	10	0.7			5.7		7.2	80.0	116.0	1060.0
8.3	220	2.1	155	6.8	18	14	3	1.5	180		6.5		7.3		212.0	895.0
6.9		3.6	150	6.8	16	10	4	0.3			5.2		7.2	44.0	328.0	377.0
6.4		4.2	130	6.9	18	12	10	0.2			5.7		7.2		536.0	ns
255.0	2880.0	132.4	4310.0	212.6	581	406	304	22.4	2380.0	32.6	193.4	0.654	224.6	701.0	6716.0	27603.0
7.8	220.0	4.5	144.3	6.9	21	15	13	0.7	166.7	9.4	6.7	0.071	7.2	138.5	113.8	931.0
8.7	213.3	4.4	147.1	6.9	19	15	9	0.6	186.7	11.2	5.6	0.115	7.3	72.0	232.6	1137.7
8.5	240.0	4.6	141.7	6.8	17	12	12	0.5	206.7	4.1	6.7	0.153	7.3	57.0	344.2	705.7
9.6	213.3	4.0	140.7	6.8	21	13	8	1.1	173.3	7.9	6.1	0.315	7.2	61.0	180.6	1221.0
8.5	221.5	4.3	143.7	6.9	19	14	10	0.7	183.1	8.2	6.2	0.164	7.2	77.9	231.6	985.8
4.3	200.0	2.0	125.0	6.5	8	6	3	0.1	140.0	4.1	1.3	0.071	6.8	34.0	86.0	255.0
11.7	280.0	6.2	175.0	7.1	33	19	27	2.9	240.0	11.2	7.9	0.315	7.7	167.0	536.0	1575.0

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		July 2011												On	Off	On	Off	On	Off
		Flow (MGD)												High	High	High	High	High	High
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc		Flow	Flow	Flow	Flow	Flow	Flow
1-Jul	9.320	1.676	0.550	2.580		11.900	13.200	8.940	4.640	0.344	75.126	38.992							
2-Jul	9.100	1.654	0.487	2.550		11.650	13.470	8.670	4.410	0.365	74.421	37.854							
3-Jul	8.670	1.658	0.506	2.450		11.120	13.700	8.820	4.420	0.194	79.317	39.748							
4-Jul	10.210	1.773	0.548	2.640		12.850	13.780	8.900	0.280	0.516	69.261	2.179							
5-Jul	8.540	1.808	0.588	2.540		11.080	13.450	8.350	6.490	0.700	75.361	58.574							
6-Jul	9.830	1.840	0.652	2.820		12.650	14.710	8.290	6.400	0.915	65.534	50.593							
7-Jul	11.100	1.900	0.707	2.620		13.720	14.420	8.770	6.690	0.763	63.921	48.761							
8-Jul	8.580	1.606	0.539	2.790		11.370	15.230	8.270	6.310	0.377	72.735	55.497							
9-Jul	10.830	1.796	0.527	2.620		13.450	13.570	8.240	6.120	0.360	61.264	45.502							
10-Jul	9.850	1.792	0.593	2.640		12.490	13.660	9.090	6.390	0.542	72.778	51.161							
11-Jul	10.380	1.862	0.541	2.670		13.050	14.490	8.480	6.180	0.738	64.981	47.356							
12-Jul	9.830	1.702	0.586	2.590		12.420	14.410	9.230	6.730	0.711	74.316	54.187							
13-Jul	10.510	1.814	0.691	2.490		13.000	14.060	9.010	6.420	0.702	69.308	49.385							
14-Jul	8.690	1.686	0.613	2.490		11.180	14.420	8.410	6.140	0.102	75.224	54.919							
15-Jul	10.940	1.643	0.585	2.360		13.300	13.900	8.540	6.220	0.420	64.211	46.767							
16-Jul	9.020	1.691	0.548	2.300		11.320	13.210	8.810	6.070	0.260	77.827	53.622							
17-Jul	9.450	1.621	0.542	2.660		12.110	15.970	8.780	6.400	0.705	72.502	52.849							
18-Jul	10.840	1.837	0.692	2.460		13.300	15.070	8.420	6.380	0.660	63.308	47.970							
19-Jul	9.010	1.705	0.665	2.450		11.460	14.900	8.870	6.380	0.456	77.400	55.672							
20-Jul	9.930	2.685	0.634	2.480		12.410	14.890	8.680	6.180	0.666	69.944	49.799							
21-Jul	10.580	0.784	0.694	2.380		12.960	15.190	8.560	6.240	0.683	66.049	48.148							
22-Jul	10.480	1.709	0.622	2.370		12.850	15.120	8.880	6.470	0.617	69.105	50.350							
23-Jul	10.120	1.674	0.567	2.390		12.510	14.250	8.370	6.170	0.405	66.906	49.321							
24-Jul	10.410	1.898	0.638	2.290		12.700	13.920	7.600	6.140	0.545	59.843	48.346							
25-Jul	11.030	1.896	0.716	2.800		13.830	18.480	2.960	5.000	0.849	21.403	36.153							
26-Jul	11.100	1.823	0.644	2.550		13.650	15.520	7.330	5.790	0.940	53.700	42.418							
27-Jul	10.590	1.719	0.646	2.330		12.920	14.350	8.440	5.530	0.860	65.325	42.802							
28-Jul	10.870	1.750	0.692	2.640		13.510	17.160	9.260	5.940	0.921	68.542	43.967							
29-Jul	9.830	1.594	0.583	2.280		12.110	14.660	7.170	5.270	0.294	59.207	43.518							
30-Jul	9.400	1.642	0.598	2.320		11.720	13.610	6.370	5.180	0.424	54.352	44.198							
31-Jul	9.530	1.869	0.596	2.440		11.970	14.030	7.770	5.170	0.876	64.912	43.191							
Total	308.570	54.107	18.790	77.990	0.000	386.560	450.800	256.280	178.150	17.910	2068.080	1433.80							
Week 1	9.539	1.758	0.577	2.600	#DIV/0!	12.139	13.819	8.677	4.761	0.542	71.849	39.53							
Week 2	9.810	1.751	0.584	2.613	#DIV/0!	12.423	14.263	8.676	6.327	0.505	70.086	51.14							
Week 3	9.967	1.709	0.623	2.441	#DIV/0!	12.409	14.733	8.666	6.267	0.550	70.177	50.69							
Week 4	10.657	1.781	0.646	2.481	#DIV/0!	13.139	15.543	7.549	5.863	0.734	57.832	44.77							
Monthly	9.954	1.745	0.606	2.516	#DIV/0!	12.470	14.542	8.267	5.747	0.578	66.712	46.25							
Min =	8.540	0.784	0.487	2.280	0.000	11.080	13.200	2.960	0.280	0.102	21.403	2.18							
Max =	11.100	2.685	0.716	2.820	0.000	13.830	18.480	9.260	6.730	0.940	79.317	58.57							

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	July 2011			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jul	7.3	156	5320	7.2	330.00	5540	7.3	483	5600	7.4	1143	5380	7.3	113	5160
2-Jul															
3-Jul															
4-Jul	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
5-Jul															
6-Jul	7.3	552	5160	7.2	741	5300	7.3	663	5380	7.4	652	5720	7.2	361	5380
7-Jul															
8-Jul	7.2	289	5100	7.1	774	4700	7.2	717	5600	7.3	717	5240	7.3	391	5640
9-Jul															
10-Jul															
11-Jul	7.2	383	5920	7..23	572	5200	7.3	252	5820	7.3	898	5940	7.2	656	5420
12-Jul															
13-Jul	7.3	104	5500	7.2	778	5280	7.3	365	5740	7.3	176	5880	7.2	554	5440
14-Jul															
15-Jul	7.3		5240	7.0		4500	7.3		5320	7.3		5280	7.2		5580
16-Jul															
17-Jul															
18-Jul	7.1	502	5280	7.2	1020	5220	7.3	261	5600	7.3	1011	6020	7.2	515	5240
19-Jul															
20-Jul	7.3		4900	7.1		4920	7.3		5440	7.3		6160	7.3		5620
21-Jul															
22-Jul	7.3	328	4640	7.4	663	5020	7.4	289	5500	7.3	435	5920	7.2	474	2880
23-Jul															
24-Jul															
25-Jul	7.2	263	5180	7.2	633	5620	7.3	280	5340	7.3	257	5660	7.2	1013	4700
26-Jul															
27-Jul	7.1		5280	7.3		5540	7.2		4960	7.3		5800	7.2		4860
28-Jul															
29-Jul	7.3	304	5220	7.3	600	5760	7.4	239	5100	7.3	639	5640	7.2	326	4820
30-Jul															
31-Jul															
Total	86.7	2881	62740	79.3	6111	62600	87.6	3549	65400	87.8	5928	68640	86.6	4403	60740
Week 1	7.3	354	5240	7.2	536	5420	7.3	573	5490	7.4	898	5550	7.2	237	5270
Week 2	7.2	259	5507	7.2	708	5060	7.3	445	5720	7.3	597	5687	7.2	534	5500
Week 3	7.2	502	5140	7.1	1,020	4880	7.3	261	5453	7.3	1,011	5820	7.2	515	5480
Week 4	7.2	296	5033	7.3	648	5393	7.3	285	5267	7.3	346	5793	7.2	744	4147
Monthly	7.2	320	5228	7.2	679	5217	7.3	394	5450	7.3	659	5720	7.2	489	5062
Min =	7.1	104	4640	7.0	330	4500	7.2	239	4960	7.3	176	5240	7.2	113	2880
Max =	7.3	552	5920	7.4	1020	5760	7.4	717	5820	7.4	1143	6160	7.3	1013	5640

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Dissolved Oxygen -July 2011

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
7/1/2011	7.0	7.1	7.1	7.8	7.1	7.1	7.3	7.0	
7/2/2011	7.1	7.2	7.0	7.7	7.3	7.2	7.1	7.0	
7/3/2011	7.0	7.0	6.9	7.5	7.2	7.1	7.1	6.9	
7/4/2011	7.1	7.1	7.1	7.0	7.2	7.0	7.1	7.0	
7/5/2011	7.0	7.0	6.8	7.7	7.2	6.9	7.3	6.8	
7/6/2011	6.9	6.8	6.7	7.2	6.8	6.5	6.6	6.5	
7/7/2011	6.4	6.4	6.4	7.1	6.8	6.6	6.4	6.4	
7/8/2011	6.3	6.3	6.3	6.9	6.6	6.4	6.5	6.3	
7/9/2011	6.5	6.7	6.6	7.3	6.8	6.8	6.8	6.5	
7/10/2011	6.8	7.1	6.9	7.2	7.1	7.1	7.0	6.8	
7/11/2011	7.3	7.0	6.8	7.3	6.9	6.7	7.2	6.7	
7/12/2011	6.7	6.7	6.7	6.9	6.6	6.5	6.6	6.5	
7/13/2011	6.6	6.7	6.6	6.9	6.6	6.7	6.7	6.6	
7/14/2011	6.7	6.9	6.8	6.8	7.1	7.2	6.9	6.7	
7/15/2011	7.1	7.4	7.1	7.7	7.3	7.1	8.4	7.1	
7/16/2011	6.9	7.1	6.9	7.9	7.2	7.1	7.0	6.9	
7/17/2011	7.0	7.1	7.0	8.0	7.5	7.3	7.1	7.0	
7/18/2011	7.2	7.4	7.1	7.6	7.4	7.2	7.3	7.1	
7/19/2011	6.9	6.9	7.0	7.4	7.2	6.9	6.7	6.7	
7/20/2011	6.7	6.8	7.4	7.4	7.1	6.7	6.7	6.7	
7/21/2011	6.7	6.5	6.4	7.0	6.5	6.3	7.0	6.3	
7/22/2011	6.2	6.3	6.5	7.2	7.0	6.5	9.6	6.2	
7/23/2011	6.5	6.4	6.5	6.7	6.6	6.9	6.8	6.4	
7/24/2011	6.9	6.6	6.9	7.3	7.1	6.7	6.5	6.5	
7/25/2011	7.0	7.0	6.8	6.9	6.4	6.1	6.8	6.1	
7/26/2011	6.1	6.0	6.3	6.7	6.4	6.2	5.7	5.7	
7/27/2011	6.5	6.7	6.6	6.9	6.7	6.4	6.5	6.4	
7/28/2011	6.4	6.4	6.5	6.8	6.7	6.6	6.4	6.4	
7/29/2011	6.5	6.6	7.0	6.7	6.6	6.0	6.5	6.0	
7/30/2011	6.1	7.9	6.1	7.0	7.0	6.6	5.8	5.8	
7/31/2011	6.6	6.6	6.3	7.1	7.0	6.8	6.5	6.3	
Min	6.10	6.00	6.10	6.70	6.40	6.00	5.7	Min	5.66
Max	7.29	7.90	7.40	7.95	7.54	7.34	9.6	Max	7.10
								Avg	6.55

	July 2011 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Jul	0.00	0.05	0.06	0.06	0.04	0.00	0.04	
2-Jul	0.02	0.03	0.05	0.05	0.06	0.04	0.04	
3-Jul	0.03	0.03	0.15	0.04	0.02	0.03	0.05	
4-Jul	0.02	0.05	0.06	0.04	0.05	1.04	0.21	
5-Jul	0.27	0.22	0.21	0.05	0.04	0.02	0.14	
6-Jul	0.01	0.00	0.01	0.29	0.03	0.02	0.06	
7-Jul	0.01	0.02	0.04	0.03	0.02	0.03	0.03	
8-Jul	0.02	0.03	0.03	0.02	0.02	0.03	0.03	
9-Jul	0.03	0.04	0.03	0.04	0.03	0.05	0.04	
10-Jul	0.02	0.06	0.11	0.05	0.03	0.02	0.05	
11-Jul	0.03	0.04	0.09	0.05	0.03	0.00	0.04	
12-Jul	0.01	0.03	0.04	0.04	0.03	0.00	0.03	
13-Jul	0.05	0.04	0.24	0.04	0.02	0.04	0.07	
14-Jul	0.01	0.04	0.07	0.04	0.03	0.04	0.04	
15-Jul	0.01	0.03	0.02	0.05	0.02	0.02	0.03	
16-Jul	0.01	0.03	0.02	0.00	0.02	0.02	0.02	
17-Jul	0.02	0.04	0.01	0.03	0.02	0.05	0.03	
18-Jul	0.03	0.03	0.03	0.03	0.02	0.03	0.03	
19-Jul	0.01	0.04	0.04	0.02	0.02	0.00	0.02	
20-Jul	0.01	0.04	0.03	0.03	0.04	0.00	0.03	
21-Jul	0.01	0.03	0.05	0.03	0.01	0.02	0.03	
22-Jul	0.00	0.04	0.05	0.03	0.02	0.01	0.03	
23-Jul	0.00	0.03	0.03	0.03	0.02	0.03	0.02	
24-Jul	0.01	0.02	0.05	0.02	0.01	0.04	0.03	
25-Jul	0.03	0.02	0.00	0.01	0.01	0.04	0.02	
26-Jul	0.01	0.02	0.00	0.02	0.01	0.04	0.02	
27-Jul	0.03	0.01	0.02	0.02	0.00	0.02	0.02	
28-Jul	0.04	0.00	0.04	0.03	0.01	0.01	0.02	
29-Jul	0.01	0.03	0.04	0.02	0.03	0.01	0.02	
30-Jul	0.03	0.03	0.03	0.02	0.00	0.03	0.02	
31-Jul	0.01	0.05	0.05	0.06	0.02	0.03	0.04	
Average	0.03	0.04	0.05	0.04	0.02	0.06	0.04	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.27	0.22	0.24	0.29	0.06	1.04		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* July 2011

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to Incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 21.14	X 0.01	= 0.00
0.00	X 21.14	X 0.01	= 0.00
0.00	X 21.14	X 0.01	= 0.00
1,022.39	X 21.14	X 0.01	= 216.13
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 216.13

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	216.13
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

08/17/11
Date

City of Reading 3-C Watershed *for the Month* July 2011

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PERMIT NUMBER	DISCHARGE NUMBER
PA0026549	001-A

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	06/01/2011	TO	06/30/2011

DMR Mailing ZIP CODE: 19604-3990
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

RECEIVED
EPA REGION III
JUL 25 2011
WATER PROTECTION DIVISION
(3WP00)

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	73	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.1	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.1	******	8.0		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1290	1414		******	10	11		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	165	******		******	1.2	******		0	Daily	COMP24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	15.8	19.6		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.03	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Wastewater Treatment Mngr	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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	Ralph E. Johnson	610-655-6258		07/19/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	06/01/2011	TO	06/30/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01246	******		******	<0.00010	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	12	******		0	Daily	GRAB
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	200 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1236	1473		******	9	11		0	Daily	COMP24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Wastewater Treatment Mngr TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	610-655-6258 AREA Code / NUMBER		07/19/2011 MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

	June 2011					City of Reading Wastewater Treatment Plant								
	Final Effluent								preSO2	COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC	FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L	#/100ml	Pt-Co	inches	(°F)	(°F)
29-May	21.2	17	6	10	1.6	16.61	7.1	7.3	0.56	10	65			
30-May	22.1	13	8	10	0.6	16.45	7.1	7.1	0.50	1	75			
31-May	21.8	12	9	8	3.2	17.78	6.9	7.3	0.47	4	65			
1-Jun	22.4	17	10	12	3.5	16.62	[illegible]	7.3	0.50	3	65		66	93
2-Jun	21.7	14	8	9	4.0	16.88	[illegible]	7.4	0.40	33	65		62	80
3-Jun	19.8	23	13	11	3.0	14.97	[illegible]	7.6	0.46	5	75		47	80
4-Jun	20.3	22	13	13	1.7	15.23	[illegible]	7.4	0.69	5	75		46	79
5-Jun	20.6	17	11	11	0.8	16.25	[illegible]	7.5	0.57	5	75		61	82
6-Jun	20.8	20	11	12	1.3	15.97	[illegible]	7.3	0.49	6	75		57	88
7-Jun	21.4	17	12	11	2.0	15.83	[illegible]	7.5	0.42	10	75		56	87
8-Jun	21.9	20	11	7	2.7	15.79	[illegible]	7.3	0.41	20	85		62	96
9-Jun	22.9	16	13	8	1.3	16.16	[illegible]	7.3	0.37	34	85		67	97
10-Jun	23.5	13	8	9	1.1	16.56	[illegible]	7.3	0.55	4	85		66	92
11-Jun	22.2	15	9	8	1.6	19.55	[illegible]	7.4	0.82	6	85		64	80
12-Jun	20.9	11	6	13	0.3	17.27	[illegible]	7.5	0.8	4	65		63	81
13-Jun	21.5	15	9	6	0.3	15.39	[illegible]	7.5	0.56	6	65		58	79
14-Jun	20.6	12	7	9	1.1	15.85	[illegible]	7.5	0.52	2	75		54	77
15-Jun	20.6	14	8	9	0.9	15.06	[illegible]	7.3	0.73	7	75		50	86
16-Jun	21.4	16	13	10	1.2	17.89	[illegible]	7.3	0.52	10	75		56	78
17-Jun	21.9	13	8	11	0.6	15.83	[illegible]	7.2	0.61	22	65		63	83
18-Jun	22.6	15	10	6	0.3	15.05	[illegible]	7.1	0.44	23	60		59	87
19-Jun	21.3	11	7	14	0.2	14.53	[illegible]	7.1	0.50	14	60		61	89
20-Jun	22.6	12	10	6	0.6	15.46	[illegible]	7.3	0.45	34	75		65	81
21-Jun	22.8	13	7	14	1.1	11.75	[illegible]	7.3	0.39	16	65		66	86
22-Jun	23.1	14	10	8	1.3	19.17	[illegible]	8.0	0.41	22	75		69	89
23-Jun	22.3	22	14	22	1.6	16.62	[illegible]	7.3	0.35	10	75		69	86
24-Jun	23.1	12	9	7	0.6	14.84	[illegible]	7.4	0.38	15	75		63	85
25-Jun	21.8	12	9	6	0.5	14.91	[illegible]	7.8	0.55	16	75		60	81
26-Jun	21.6	11	7	8	0.4	15.47	[illegible]	7.7	0.50	10	75		58	78
27-Jun	21.9	10	8	10	0.3	14.59	[illegible]	7.4	0.54	5	75		58	84
28-Jun	22.1	8	5	8	1.4	15.09	[illegible]	7.3	0.51	12	75		62	87
29-Jun	22.8	13	8	7	1.0	13.83	[illegible]	7.4	0.53	7	75		61	81
30-Jun	21.9	13	6	9	0.3	15.14	[illegible]	7.4	0.55	7	65		56	84
1-Jul	22.0	19	14	13	0.4	13.20	7.3	7.4	0.55	15	75			
2-Jul	21.5	17	9	17	0.2	13.47	7.1	7.6	0.61	8	75			
						[illegible]				<				
TOTAL		441	280	294	37	474	197	222	16	373	2190	0		
Week 1	21.0	17	10	10	2.3	15.96	6.48	7.44	0.50	10	72		56	84
Week 2	21.9	17	11	9	1.2	16.65	6.44	7.40	0.58	11	78		62	86
Week 3	21.9	14	9	9	0.7	15.08	6.78	7.21	0.52	18	68	#DIV/0!	60	84
Week 4	22.3	14	9	11	0.9	15.81	6.47	7.53	0.46	13	75		63	84
Week 5		13	8	10										
Monthly	21.8	15	9	10	1.2	15.8	6.6	7.4	0.5	12	73		60	85
Analysis performed by MJ Reider (commercial lab) due to instrument malfunction.														
Min =	19.8	8	5	6	0.2	11.8	6.1	7.1	0.4	2	60	0.0	46	77
Max =	23.5	23	14	22	4.0	19.6	7.3	8.0	0.8	34	85	0.0	69	97
Weekly averages: 5/29-6/4, 6/5-11, 6/12-18, 6/19-25 and 6/26-7/2.														
DISCHARGE LIMITATIONS														
Ave Monthly:			20	30	6		Min.	6.0		200	186			
Ave Weekly:			30	45			of	to						
Inst. Max:			40	60	12		5.0	9.0			465			

Print Date: 7/18/2011

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
29-May							2,355	831						1,385								226
30-May							1,784	1,098						1,372								77
31-May							1,779	1,335						1,186								475
1-Jun	6,963	63,643	70,606	1,605		72,210	2,356	1,386	6,675	20,366	27,041	28,194	55,234	1,663	1,563	642	1,762	2404	2,309	6,929	4,713	485
2-Jun	6,445	42,530	48,975	-6,074	508	42,901	1,971	1,126	7,678	26,242	33,920	6,611	40,531	1,267	1,338	684	1,728	2,412	2,056	6,636	4,468	563
3-Jun	7,652	36,643	44,295	-1,511		42,784	2,872	1,623	6,017	17,008	23,026	7,209	30,234	1,373	1,103	571	1,362	1,933	1,328	2,604	3,261	375
4-Jun	7,756	38,468	46,224	7,631		53,856	2,794	1,651	7,498	20,642	28,139	12,073	40,212	1,651	462	726	1,895	2,622	657	2,607	3,279	216
5-Jun	9,165	54,914	64,079	12,055		76,133	2,304	1,491	6,888	22,710	29,598	9,798	39,396	1,491		717	1,815	2,531	526		3,057	108
6-Jun	7,614	41,893	49,508	-12,492	307	37,016	2,664	1,465	6,186	29,872	36,058	-3,390	32,668	1,598	1,110	730	1,831	2,560	2,422	725	4,982	176
7-Jun	7,110	49,081	56,191	-15,333		40,858	2,244	1,584	6,981	31,947	38,928	-13,838	25,090	1,452	754	432	1,687	2,118	1,864	7,196	3,982	263
8-Jun	6,133	35,832	41,965	5,721		47,686	2,634	1,449	4,020	20,876	24,896	32,742	57,638	922	1,241	673	1,667	2,340	1,403	4,534	3,742	350
9-Jun	7,649	73,851	81,499	-19,645	965	61,854	2,156	1,752	7,361	34,182	41,544	13,994	55,537	1,078	731	671	2,131	2,802	1,791	7,363	4,593	177
10-Jun	6,179	38,945	45,124	3,330		48,454	1,795	1,105	6,249	22,095	28,344	13,789	42,134	1,243	821	622	1,478	2,100	1,302	5,076	3,402	146
11-Jun	7,402	38,487	45,889	658		46,546	2,446	1,467	6,691	25,804	32,495	13,079	45,574	1,304	657	663	1,738	2,402	488	4,288	2,890	261
12-Jun	5,971	40,037	46,008	-10,309	203	35,699	1,584	864	7,054	57,768	64,822	6,329	71,151	1,872	481	550	1,716	2,266	935	4,720	3,201	44
13-Jun	7,498	45,443	52,941	-6,689		46,252	1,925	1,155	5,791	51,935	57,726	-21,436	36,290	770	1,537	657	1,781	2,437	1,583	6,390	4,020	43
14-Jun	6,136	54,181	60,316	-7,796		52,520	1,586	925	7,048	33,930	40,978	12,684	53,662	1,190	2,833	862	1,590	2,452	2,081	7,351	4,533	139
15-Jun	4,921	36,696	41,617	-10,836		30,781	1,758	1,005	6,348	36,696	43,044	-20,363	22,681	1,130	1,010	588	1,551	2,139	1,004	6,398	3,143	117
16-Jun	6,630	41,027	47,657	6,776	737	54,434	2,387	1,940	5,092	69,478	74,570	-25,320	49,249	1,492	1,171	562	1,763	2,325	1,356	5,100	3,681	181
17-Jun	6,179	30,234	36,413	1,622		38,035	1,716	1,056	6,249	18,812	25,061	4,062	29,124	1,452	1,151	622	1,268	1,890	523	3,112	2,412	74
18-Jun	6,047	27,250	33,297	3,742		37,038	1,883	1,255	5,514	24,044	29,559	-1,389	28,170	753	1,662	539	1,427	1,966	507	1,548	2,473	40
19-Jun	6,158	30,650	36,807	-1,189	195	35,618	1,333	848	6,842	40,282	47,124	-8,370	38,754	1,697	823	613	1,655	2,268	733	2,097	3,002	28
20-Jun	5,327	47,567	52,894	-6,307		46,587	1,547	1,289	4,496	39,783	44,280	6,966	51,246	774	1,586	638	1,661	2,298	1,773	5,151	4,071	73
21-Jun	6,299	35,875	42,174	-3,766		38,408	1,274	686	7,654	32,099	39,753	191	39,944	1,372	540	540	1,529	2,069	2,044	6,422	4,113	107
22-Jun	5,376	23,373	28,749	2,818		31,568	2,238	1,599	8,113	6,656	14,769	14,966	29,735	1,279	3,173	850	1,401	2,251	1,109	5,703	3,360	214
23-Jun	8,500	69,064	77,563	-33,643		43,920	3,049	1,941	7,058	24,650	31,709	19	31,727	3,049	1,340	534	1,881	2,415	1,571	5,798	3,986	215
24-Jun	4,804	29,475	34,279	2,421		36,701	1,485	1,114	5,624	51,330	56,955	-24,353	32,602	866	1,530	537	1,352	1,888	1,277	3,598	3,165	68
25-Jun	5,004	33,203	38,206	-717		37,489	1,492	1,119	5,948	63,543	69,491	-10,699	58,792	746	267	533	1,727	2,260	977	4,270	3,237	59
26-Jun	3,683	38,287	41,970	-10,095	288	31,875	1,419	903	3,821	41,450	45,271	-11,058	34,213	1,032	375	559	1,598	2,157	233	5,838	2,391	46
27-Jun	2,410	23,344	25,754	10,426		36,180	1,217	973	6,315	26,612	32,927	-6,225	26,702	1,217	1,412	576	1,323	1,899	1,576	3,564	3,475	40
28-Jun	2,335	33,729	36,065	1,829		37,894	1,007	629	5,558	29,232	34,790	138	34,928	1,007	1,275	591	1,712	2,303	2,200	6,468	4,503	176
29-Jun	7,140	40,866	48,006	1,089		49,095	1,499	923	6,093	33,360	39,453	-11,366	28,087	807	4,622	803	1,635	2,438	1,684	6,263	4,122	119
30-Jun	4,876	43,475	48,351	-6,425	890	41,926	1,641	758	4,605	43,112	47,717	-26,217	21,501	1,136	2,601	369	1,703	2,072	895	4,903	2,967	41
1-Jul							2,092	1,541						1,431								47
2-Jul							1,910	1,011						1,910								26
Average values used for loadings due to no samples for that day.																						
TOTAL	185,359	1,238,063	1,423,422	-91,104	4,092	1,332,318	58,280	37,082	187,469	996,516	1,183,986	-1,180	1,182,806	38,686	39,169	18,653	49,366	68,019	40,206	142,654	108,224	4,943
Week 1	7,529	46,739	54,268	-2,017	407	52,251	2,273	1,293	6,846	24,112	30,958	6,665	37,624	1,414	1,055	643	1,726	2,369	1,595	4,450	3,963	312
Week 2	6,710	46,682	53,392	-4,961	584	48,430	2,320	1,473	6,316	35,227	41,544	10,169	51,712	1,298	1,186	671	1,729	2,400	1,369	5,675	3,769	166
Week 3	5,937	35,614	41,551	-1,423	466	40,129	1,834	1,171	6,028	37,314	43,341	-6,317	37,024	1,237	1,135	586	1,551	2,137	1,134	4,261	3,271	89
Week 4	4,587	35,782	40,370	-3,852	288	36,518	1,774	1,228	6,062	34,782	40,844	-5,316	35,528	1,398	1,339	597	1,570	2,168	1,278	5,034	3,445	117
							1,541	963						1,220								
Monthly	6,179	41,269	47,447	-3,037	512	44,411	1,943	1,236	6,249	33,217	39,466	-39	39,427	1,290	1,351	622	1,646	2,267	1,340	4,919	3,607	165
Min =	2335	23344	25754	-33643	195	30,781	1,007	629	3,821	6,656	14,769	-26,217	21,501	746	267	369	1,268	1,888	233	725	2,391	26
Max =	9165	73851	81499	12055	965	76,133	3,049	1,941	8,113	69,478	74,570	32,742	71,151	3,049	4,622	862	2,131	2,802	2,422	7,363	4,982	563
								3,336						7,130								1,000
								5,004						10,696								

Print Date: 7/15/2011

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
29-May								
30-May								
31-May	< 0.00010	< 0.00284	< 0.00010	< 0.00982	0.00020	0.02534	< 0.00010	< 0.01483
1-Jun								
2-Jun								
3-Jun								
4-Jun								
5-Jun								
6-Jun								
7-Jun	< 0.00010	< 0.00259	< 0.00010	< 0.00892	0.00010	0.01151	< 0.00010	< 0.01320
8-Jun								
9-Jun	0.00010	0.00261	0.00020	0.02110	0.00020	0.02632	< 0.00010	< 0.01348
10-Jun								
11-Jun								
12-Jun								
13-Jun								
14-Jun	0.00030	0.00761	< 0.00010	< 0.00888	0.00020	0.02283	< 0.00010	< 0.01322
15-Jun								
16-Jun								
17-Jun								
18-Jun								
19-Jun								
20-Jun								
21-Jun	< 0.00010	< 0.00238	0.00060	0.05665	< 0.00010	< 0.01182	< 0.00010	< 0.00980
22-Jun								
23-Jun								
24-Jun								
25-Jun								
26-Jun								
27-Jun								
28-Jun	0.00020	0.00467	0.00010	0.00865	0.00020	0.02197	< 0.00010	< 0.01259
29-Jun								
30-Jun								
1-Jul								
2-Jul								
Total	0.00080	0.01985	0.00110	0.10420	0.00080	0.09445	0.00050	0.06228
Week 1	< 0.00010	< 0.00284	< 0.00010	< 0.00982	0.00020	0.02534	< 0.00010	< 0.01483
Week 2	< 0.00010	< 0.00260	< 0.00015	< 0.01501	0.00015	0.01892	< 0.00010	< 0.01334
Week 3	0.00030	0.00761	< 0.00010	< 0.00888	0.00020	0.02283	< 0.00010	< 0.01322
Week 4	< 0.00010	< 0.00238	0.00060	0.05665	< 0.00010	< 0.01182	< 0.00010	< 0.00980
	0.00020	0.00467	0.00010	0.00865	0.00020	0.02197	< 0.00010	< 0.01259
Monthly	< 0.00016	< 0.00397	< 0.00022	< 0.02084	< 0.00016	< 0.01889	< 0.00010	< 0.01246
Min =	< 0.00010	< 0.00238	0.00010	0.00865	0.00010	0.01151	< 0.00010	< 0.00980
Max =	0.00030	0.00761	0.00060	0.05665	0.00020	0.02632	< 0.00010	< 0.01348
							0.00023	0.055
							0.00046	

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	June 2011				City of Reading Wastewater Treatment Plant																			Laboratory Process Control Data							
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent						
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
29-May																					12.46												
30-May																					16.11												
31-May																					15.19												
1-Jun	242	232	7.4	22.3	650	208	7.1	18.0	557	213	19.0	13	223	18.2	570	436	37.2	7.2	6.7	20.8	15.19	250	64	26.9	0.4	6.8	33	33	22.7	320	2	6.9	26	11
2-Jun	230	274	7.7	24.4	470	290	7.0	19.1	413	286	20.4	-51	56	17.3	362	342	37.7	7.3	7.3	22.3	14.21	ns	ns		0.1	6.7	34	34	22.6		5	7.2	26	9
3-Jun	295	232	7.5	22.0	530	246	7.0	19.7	466	242	20.3	-16	76	14.0	450	318	34.3	7.2	7.4	20.2	11.40	262	59	26.1	0.1	6.7	43	34	19.8	280	4	7.3	25	12
4-Jun	300	290	7.4	28.1	410	220	6.7	20.2	386	235	21.9	64	101	5.5	450	336	27.4	7.0	7.3	20.2	14.35	265	73	24.0	4.1	6.3	40	37	19.9		8	6.9	23	21
5-Jun	330	248	7.2	25.8	590	244	7.0	19.5	530	245	20.9	100	81	4.4	630	326	25.3	6.7	5.8	20.6	14.49	262	48	22.2	0.2	6.4	43	47	17.2		4	6.6	16	4
6-Jun	288	234	7.5	27.6	460	328	6.8	20.1	421	307	21.8	-106	-29	20.6	315	278	42.4	6.8	3.3	21.5	14.09	312	63	29.3	0.1	6.6	49	43	21.0	240	4	7.0	31	16
7-Jun	275	270	7.4	16.7	550	358	6.9	18.9	488	338	18.4	-133	-120	16.2	355	218	34.6	7.1	4.3	20.3	13.80	295	77	28.2	0.1	6.6	63	69	20.8		3	7.0	31	20
8-Jun	238	156	7.4	26.1	460	268	6.8	21.4	405	240	22.6	55	316	13.5	460	556	36.1	7.1	5.1	23.8	12.43	262	76	31.9	0.2	6.5	54	47	21.3	240	3	7.1	36	12
9-Jun	293	282	7.6	25.7	700	324	7.0	20.2	619	316	21.3	-149	106	13.6	470	422	34.9	6.8	1.5	21.0	15.78	338	71	26.9	0.2	6.5	40	33	18.8		4	7.1	35	17
10-Jun	ns	ns	7.2	ns	490	278	6.7	18.6	428	269	19.9	32	131	12.4	460	400	32.3	6.8	2.2	21.3	12.63	282	80	25.6	0.8	6.4	36	41	17.8	320	3	6.8	24	13
11-Jun	250	226	7.2	22.4	352	236	6.7	15.9	330	234	17.3	5	94	3.5	335	328	20.8	6.5	3.8	20.9	16.66	200	64	18.5	0.5	6.4	32	31	15.6		3	6.9	21	12
12-Jun	215	254	7.3	19.8	420	606	6.8	18.0	374	527	18.4	-84	51	7.6	290	578	26.0	6.6	6.0	20.3	14.76	270	72	20.4	0.2	6.4	19	21	14.3		5	6.7	13	11
13-Jun	290	224	7.8	25.4	490	560	7.0	19.2	446	487	20.6	-56	-181	13.3	390	306	33.9	7.0	4.5	21.9	14.22	267	86	26.2	0.2	6.3	32	23	17.6	280	4	6.9	28	17
14-Jun	242	278	7.7	34.0	610	382	7.1	17.9	528	359	21.5	-68	111	18.2	460	470	39.7	6.8	8.8	20.1	13.69	320	90	26.3	0.8	6.6	32	36	16.5		4	7.1	21	18
15-Jun	200	258	7.4	23.9	440	440	7.1	18.6	385	399	19.8	-100	-189	9.3	285	210	29.1	6.8	6.2	21.8	12.95	242	85	22.3	0.3	6.4	17	8	16.2	340	2	7.1	22	13
16-Jun	250	192	7.4	21.2	398	674	6.8	17.1	368	575	17.9	52	-195	10.5	420	380	28.4	6.8	2.8	21.2	15.54	268	60	25.3	0.2	6.7	36	26	18.1		4	7.0	27	19
17-Jun	ns	ns	7.5	ns	360	224	7.0	15.1	335	231	17.4	15	37	4.8	350	268	22.2	7.1	6.0	20.9	13.03	230	84	15.1	0.2	6.6	25	28	12.1	240	5	6.9	16	17
18-Jun	250	228	7.6	22.3	340	300	7.1	17.8	319	283	18.8	36	-13	4.9	355	270	23.7	7.0	2.5	21.2	12.51	228	59	18.9	0.2	6.6	28	15	14.8		4	6.8	12	11
19-Jun	252	280	7.5	25.1	350	460	7.1	18.9	329	421	20.3	-11	-75	6.5	318	346	26.8	6.9	3.1	21.5	13.43	215	94	21.1	0.3	6.5	ns	ns	ns		5	6.9	20	13
20-Jun	218	184	7.5	26.1	550	460	7.0	19.2	477	399	20.7	-57	63	16.0	420	462	36.7	6.9	1.6	21.7	13.30	222	62	25.1	0.5	6.5	30	32	19.1	300	2	6.8	16	12
21-Jun	265	322	7.3	22.7	380	340	6.6	16.2	357	336	17.5	-32	2	17.3	325	338	34.8	7.1	3.9	22.8	14.17	ns	ns	ns	0.2	6.4	37	47	16.8		3	6.8	28	21
22-Jun	220	332	7.6	34.8	302	86	7.1	18.1	282	145	22.1	28	147	10.9	310	292	33.0	6.8	5.3	22.3	12.21	215	52	28.1	0.1	6.5	28	23	20.5	280	1	7.0	25	12
23-Jun	342	284	7.5	21.5	650	232	6.9	17.7	592	242	18.4	-257	0	12.0	335	242	30.4	6.9	7.0	21.2	15.72	225	42	26.3	0.1	6.4	25	27	18.8		0	6.8	23	13
24-Jun	205	240	7.0	22.9	410	714	7.0	18.8	360	597	19.8	25	-255	13.4	385	342	33.2	6.9	8.2	22.2	11.43	210	53	26.1	0.1	6.4	21	34	18.8	280	5	7.0	26	27
25-Jun	212	252	7.5	22.6	348	666	7.4	18.1	321	584	19.0	-6	-90	8.2	315	494	27.2	6.8	7.9	21.7	14.27	195	31	22.5	1.2	6.6	19	17	15.2		5	7.0	21	11
26-Jun	160	166	7.7	24.3	460	498	7.4	19.2	395	426	20.3	-95	-104	2.2	300	322	22.5	6.9	2.5	20.8	12.74	ns	ns	ns	1.2	6.8	21	24	15.0		6	7.2	18	19
27-Jun	100	262	7.3	23.9	300	342	6.9	17.0	253	323	18.6	102	-61	15.5	355	262	34.1	7.0	10.6	21.1	12.22	220	56	25.4	2.6	6.6	48	43	16.3	300	1	7.3	22	12
28-Jun	100	238	7.2	25.3	390	338	6.8	19.8	328	317	21.0	17	1	20.0	345	318	41.0	7.0	9.7	22.1	13.17	155	62	31.6	0.1	6.5	27	39	20.6		3	7.2	34	19
29-Jun	232	198	7.0	26.1	490	400	6.7	19.6	420	346	21.4	10	-100	14.7	430	246	36.1	6.9	4.6	23.2	13.69	240	52	29.3	0.1	6.5	34	21	19.0	340	3	6.7	26	13
30-Jun	288	272	6.8	21.8	480	476	6.5	18.8	450	444	19.3	-60	-244	8.3	390	200	27.6	6.9	3.5	22.1	12.89	290	59	25.7	0.1	6.5	38	36	16.7		4	7.0	28	12
1-Jul																																		
2-Jul																																		
TOTAL	6782	6908	222.1	684.8	13830	11198	208	556.7	12364	10366	596.5	-729	-60	352.9	11635	10306	949.4	###	###	643.0	410.97	6740	1774	675.3	15.3	###	984	949	523.9	3760.0	107.8	209.0	720	437
Week 1	280	254	7.4	23.8	523	271	6.9	19.4	466	267	20.4	-19	55	13.7	447	322	34.1	7.0	6.0	20.8	13.93	274	64	26.1	0.7	6.6	44	42	20.6	280.0	4.3	7.0	25	13
Week 2	255	237	7.5	25.6	503	379	6.9	18.7	447	347	20.2	-38	90	11.7	409	437	32.0	6.8	4.6	21.3	14.31	277	77	25.1	0.4	6.4	35	33	17.4	280.0	3.6	6.9	25	14
Week 3	239	244	7.5	23.6	403	414	7.0	17.6	367	378	18.9	-14	-53	9.9	353	325	28.8	6.9	3.7	21.6	13.56	234	74	21.3	0.2	6.5	29	26	16.2	293.3	3.5	6.9	20	15
Week 4	191	253	7.4	25.0	409	411	7.1	18.4	362	376	19.9	-27	-52	11.7	335	325	31.6	6.9	7.3	21.6	13.11	203	49	26.7	0.8	6.5	27	30	17.9	286.7	3.0	7.1	24	16
Monthly	242	247	7.4	24.5	461	373	6.9	18.6	412	346	19.9	-24	-2	11.8	388	344	31.6	6.9	5.3	21.4	13.70	250	66	25.0	0.5	6.5	34	33	18.1	289.2	3.6	7.0	24	15
Min =	100	156	6.8	17	300	86	6.5	15	253	145	17.3	-257	-255	2.2	285	200	20.8	6.5	1.5	20.1	11.40	155	31	15.1	0.1	6.3	17	8	12.1	240.0	0.4	6.6	12	4
Max =	342	332	7.8	35	700	714	7.4	21	619	597	22.6	102	316	20.6	630	578	42.4	7.3	10.6	23.8	16.66	338	94	31.9	4.1	6.8	63	69	22.7	340.0	8.0	7.3	36	27
									%Removal						%Removal																			
									96.43	97.16	93.82				96.21	97.15	96.11																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	DO	chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	DO	Nitrite	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
13.5	200	5	150	7.0	28	16	17	4.4	140		7.1		7.9		206.0	913.0
14.0		7	145	7.3	22	11	11	4.6		21.3	6.3	0.646	7.2	66.0	174.0	863.0
12.7	240	6	170	7.3	27	15	11	3.8	160		6.3		7.2		396.0	935.0
11.0		7	155	6.7	22	13	14	1.9			8.5		7.1		150.0	847.0
8.0		6	135	6.8	22	13	6	0.9			6.7		6.7		ns	ns
11.3	240	6	135	7.0	26	13	nr	1.3	220		6.9		7.2	42.0	152.0	99.2
12.3		6	150	7.1	25	14	16	2.4			6.0		7.3		96.0	916.0
12.8	200	5	165	6.9	32	15	12	3.0	180		6.3		7.3		216.0	789.0
10.5		5	160	6.7	26	18	9	1.3			5.8		7.3	177.0	134.0	1350.0
10.5	240	5	165	6.5	20	12	12	1.2	160		6.8		7.9		214.0	1323.0
8.5		6	135	6.8	25	13	9	1.7			6.4		7.1		188.0	1227.0
7.4		6	110	6.7	16	10	14	0.3			7.1		6.5	43.0	102.0	1000.0
8.5	180	7	125	6.9	18	11	3	0.4	140		7.3		7.0		224.0	931.0
8.6		7	140	7.1	16	10	9	1.0			6.9		7.4		390.0	1012.0
8.8	240	5	155	6.9	17	9	11	0.9	180	7.6	6.6	0.410	7.2		154.0	976.0
10.5		4	150	7.1	18	13	12	1.1			6.9		7.3	117.0	186.0	810.0
6.6	220	6	155	7.0	16	9	9	0.5	180		7.3		7.1		392.0	1060.0
7.0		7	140	7.0	12	14	5	0.2			7.0		7.1		540.0	503.0
7.1		6	130	6.8	14	10	12	0.3			8.1		7.2	32.0	135.0	344.0
9.2	200	5	150	6.9	18	14	13	0.6	180		6.9		7.3		246.0	799.0
9.1		5	135	6.9	17	14	17	1.3		5.8	6.7	0.336	6.6		82.0	976.0
11.8	220	5	130	6.9	18	14	11	1.4	200		6.0		7.3		508.0	913.0
11.1		5	150	6.8	20	12	17	1.7			5.7		7.0		238.0	1030.0
9.4	200	5	150	6.7	16	8	26	0.5	200		6.3		7.1		372.0	875.0
7.7		7	150	7.0	23	12	18	1.5			7.3		7.3		80.0	1280.0
7.7		8	130	7.2	22	16	16	2.0			7.5		7.4	69.0	90.0	1400.0
7.1	200	5	140	6.8	18	8	7	1.9	180		7.2		7.5		216.0	545.0
10.7		5	140	6.9	ns	ns	17	1.0		5.2	6.8	0.150	7.4		203.0	1030.0
8.8	240	7	150	6.7	22	17	10	1.0	200		6.2		6.7		735.0	996.0
7.2		5	165	7.1	21	12	15	0.3			6.6		7.1	167.0	488.0	920.0
289.1	2820.0	173.5	4360.0	207.3	597	366	359	44.1	2320.0	39.9	203.4	1.542	215.6	713.0	7307.0	26662.2
11.8	226.7	6.2	148.6	7.0	25	14	13	2.7	173.3	21.3	6.8	0.646	7.2	54.0	195.7	762.2
9.5	206.7	5.7	142.9	6.8	22	13	10	1.3	160.0	#DIV/0!	6.7	#DIV/0!	7.2	110.0	209.7	1090.3
8.3	220.0	5.5	145.0	6.9	16	12	11	0.7	180.0	6.7	7.1	0.373	7.1	74.5	247.9	781.1
9.4	206.7	5.7	141.4	6.9	20	12	16	1.4	193.3	5.2	6.7	0.150	7.3	69.0	243.9	1010.4
9.6	216.9	5.8	145.3	6.9	21	13	12	1.5	178.5	10.0	6.8	0.386	7.2	89.1	252.0	919.4
6.6	180.0	3.9	110.0	6.5	12	8	3	0.2	140.0	5.2	5.7	0.150	6.5	32.0	80.0	99.2
14.0	240.0	7.9	170.0	7.3	32	18	26	4.6	220.0	21.3	8.5	0.646	7.9	177.0	735.0	1400.0

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
		Flow (MGD)																
29-May	9.040			3.420			16.610											
30-May	12.720			3.390			16.450											
31-May	11.780			3.410			17.780											
1-Jun	11.740	2.165	0.668	3.450		15.190	16.620	7.070	5.710	0.910	46.544	37.591						
2-Jun	10.850	2.039	0.606	3.360		14.210	16.880		5.850	0.922	########	41.168						
3-Jun	8.290	1.889	0.557	3.110		11.400	14.970	7.580	5.610	0.334	66.491	49.211						
4-Jun	11.250	1.844	0.513	3.100		14.350	15.230	8.100	5.170	0.369	56.446	36.028						
5-Jun	11.160	2.184	0.612	3.330		14.490	16.250	8.380	5.610	0.627	57.833	38.716						
6-Jun	10.920	2.003	0.616	3.170		14.090	15.970	8.320	5.530	0.876	59.049	39.248						
7-Jun	10.700	1.994	0.624	3.100		13.800	15.830	8.270	5.520	0.942	59.928	40.000						
8-Jun	9.340	1.963	0.623	3.090		12.430	15.790	8.300	5.510	0.689	66.774	44.328						
9-Jun	12.650	2.038	0.631	3.130		15.780	16.160	8.650	5.600	0.654	54.816	35.488						
10-Jun	9.530	1.986	0.596	3.100		12.630	16.560	8.730	5.770	0.460	69.121	45.685						
11-Jun	13.110	2.155	0.605	3.550		16.660	19.550	8.530	3.740	0.419	51.200	22.449						
12-Jun	11.430	2.193	0.638	3.330		14.760	17.270	8.660	6.700	0.566	58.672	45.393						
13-Jun	11.120	1.823	0.565	3.100		14.220	15.390	8.730	6.340	0.823	61.392	44.585						
14-Jun	10.650	2.011	0.630	3.040		13.690	15.850	8.870	6.310	0.871	64.792	46.092						
15-Jun	10.000	1.862	0.625	2.950		12.950	15.060	8.740	5.960	0.786	67.490	46.023						
16-Jun	12.360	1.996	0.652	3.180		15.540	17.890	8.590	6.140	0.755	55.277	39.511						
17-Jun	10.070	1.866	0.582	2.960		13.030	15.830	9.140	5.900	0.352	70.146	45.280						
18-Jun	9.610	1.779	0.501	2.900		12.510	15.050	8.660	5.590	0.369	69.225	44.684						
19-Jun	10.500	1.960	0.585	2.930		13.430	14.530	8.690	5.830	0.731	64.706	43.410						
20-Jun	10.370	1.822	0.591	2.930		13.300	15.460	8.560	5.990	0.773	64.361	45.038						
21-Jun	11.320	1.892	0.644	2.850		14.170	11.750	6.780	5.700	0.789	47.848	40.226						
22-Jun	9.280	1.821	0.648	2.930		12.210	19.170	8.830	5.720	0.749	72.318	46.847						
23-Jun	12.740	1.792	0.630	2.980		15.720	16.620	2.040	2.920	0.675	12.977	18.575						
24-Jun	8.620	1.903	0.567	2.810		11.430	14.840	9.420	8.270	0.493	82.415	72.353						
25-Jun	11.440	1.945	0.563	2.830		14.270	14.910	8.430	5.390	0.400	59.075	37.772						
26-Jun	9.980	1.849	0.551	2.760		12.740	15.470	8.000	5.320	0.500	62.794	41.758						
27-Jun	9.330	1.750	0.599	2.890		12.220	14.590	10.150	5.500	0.784	83.061	45.008						
28-Jun	10.370	1.891	0.650	2.800		13.170	15.090	9.380	4.620	0.753	71.222	35.080						
29-Jun	10.000	1.804	0.658	3.690		13.690	13.830	9.260	5.130	0.754	67.641	37.473						
30-Jun	10.860	1.873	0.679	2.030		12.890	15.140	9.270	5.040	0.639	71.916	39.100						
1-Jul							13.200											
2-Jul							13.470											
Total	319.59	58.09	18.21	91.38	0.00	410.97	473.55	242.13	167.99	19.76	########	1244.12						
Week 1	10.701	2.017	0.599	3.231	#DIV/0!	13.933	16.363	7.953	5.571	0.711	########	40.28						
Week 2	11.119	2.024	0.613	3.191	#DIV/0!	14.310	16.587	8.639	5.710	0.640	60.967	40.57						
Week 3	10.604	1.882	0.597	2.957	#DIV/0!	13.561	16.049	8.451	5.873	0.651	62.722	43.45						
Week 4	10.251	1.850	0.601	2.857	#DIV/0!	13.109	15.326	8.036	5.391	0.622	63.409	42.48						
							14.399											
Monthly	10.65	1.94	0.61	3.05	#DIV/0!	13.70	15.79	8.35	5.60	0.66	########	41.47						
Min =	8.290	1.750	0.501	2.030	0.000	11.400	11.750	2.040	2.920	0.334	########	18.575						
Max =	13.110	2.193	0.679	3.690	0.000	16.660	19.550	10.150	8.270	0.942	########	72.353						

Print Date: 7/15/2011

	June 2011			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
29-May															
30-May															
31-May															
1-Jun	7.1	276	5140	7.1	684.00	4980	7.1	909	5100	7.1	1164	5640	7.1	700	5700
2-Jun															
3-Jun	7.1	433	5080	7.2	451	5620	6.5	755	1400	7.2	604	5520	7.1	393	5460
4-Jun															
5-Jun															
6-Jun	7.3	56	5340	7.2	833	5420	7.1	571	4700	7.2	291	4640	7.2	900	5300
7-Jun															
8-Jun	7.2		5280	7.2		5160	7.0		2700	7.2		5440	7.1		5200
9-Jun															
10-Jun	7.3	71	5480	7.2	867	5440	7.0	1102	1020	7.2	624	5300	7.1	227	4775
11-Jun															
12-Jun															
13-Jun	7.3	209	5400	7.0	1278	4480	7.3	1011	5180	7.2	891	5540	7.1	82	4620
14-Jun															
15-Jun	7.2	133	5480	7.1	704	4980	7.3	260	5120	7.2	702	5480	7.2	1020	5220
16-Jun															
17-Jun	7.4		5380	7.4		5180	7.3		4700	7.2		4640	7.2		5160
18-Jun															
19-Jun															
20-Jun	7.1	282	3620	7.0	611	5620	7.1	684	5480	7.3	889	5600	7.2	784	4560
21-Jun															
22-Jun	7.0		4120	7.1		5580	7.1		5960	7.3		5440	7.3		5380
23-Jun															
24-Jun	7.2	100	5200	7.2	976	5600	7.2	271	5780	7.4	476	5620	7.3	622	5600
25-Jun															
26-Jun															
27-Jun	7.0	82	5180	7.1	417	5320	7.2	480	3980	7.3	878	5000	7.2	1233	5820
28-Jun															
29-Jun	7.1		5560	7.1		5700	7.1		5420	7.4		5740	7.3		5540
30-Jun															
1-Jul															
2-Jul															
Total	93.3	1642	66260	93.0	6821	69080	92.3	6043	56540	94.2	6519	69600	93.3	5961	68335
Week 1	7.2	255	5187	7.1	656	5340	6.9	745	3733	7.2	686	5267	7.1	664	5487
Week 2	7.3	140	5387	7.1	1,073	5027	7.1	1,057	2967	7.2	758	5427	7.1	155	4865
Week 3	7.2	208	4827	7.2	658	5260	7.2	472	5100	7.2	796	5240	7.2	902	4980
Week 4	7.1	91	4833	7.2	697	5500	7.2	376	5240	7.3	677	5353	7.3	928	5600
Monthly	7.2	182	5097	7.2	758	5314	7.1	671	4349	7.2	724	5354	7.2	662	5257
Min =	7.0	56	3620	7.0	417	4480	6.5	260	1020	7.1	291	4640	7.1	82	4560
Max =	7.4	433	5560	7.4	1278	5700	7.3	1102	5960	7.4	1164	5740	7.3	1233	5820

Print Date: 7/15/2011

Dissolved Oxygen -June 2011

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
6/1/2011	6.4	6.5	7.0	6.6	6.4	6.2	6.9	6.2	
6/2/2011	6.3	6.4	6.5	6.9	6.8	6.8	6.4	6.3	
6/3/2011	6.8	6.8	6.8	7.1	6.9	6.6	6.9	6.6	
6/4/2011	6.7	6.9	7.0	7.4	7.1	7.0	8.5	6.7	
6/5/2011	6.8	6.8	7.1	7.2	6.9	6.6	7.3	6.6	
6/6/2011	6.8	6.9	7.3	7.6	7.2	6.6	7.0	6.6	
6/7/2011	6.6	6.6	6.6	6.8	6.6	6.4	6.5	6.4	
6/8/2011	6.4	6.5	6.4	6.7	6.4	6.1	6.3	6.1	
6/9/2011	6.2	6.2	6.1	6.4	6.2	6.3	6.1	6.1	
6/10/2011	6.4	6.5	6.8	6.8	6.2	6.1	6.7	6.1	
6/11/2011	6.1	6.5	6.2	6.3	6.4	6.4	6.8	6.1	
6/12/2011	6.7	7.0	7.3	7.5	7.6	7.5	7.7	6.7	
6/13/2011	7.3	7.5	7.7	7.9	7.7	7.3	7.5	7.3	
6/14/2011	7.1	7.2	7.3	7.4	7.2	6.8	7.2	6.8	
6/15/2011	6.8	6.9	7.3	7.6	7.1	6.8	7.1	6.8	
6/16/2011	7.1	7.1	7.4	7.4	7.4	6.9	7.2	6.9	
6/17/2011	7.0	6.8	7.0	7.1	7.1	7.0	7.3	6.8	
6/18/2011	7.1	7.2	7.3	7.8	7.4	6.9	7.4	6.9	
6/19/2011	7.1	7.0	7.5	7.4	7.4	7.3	8.5	7.0	
6/20/2011	7.0	7.2	7.4	7.6	7.3	6.8	7.2	6.8	
6/21/2011	6.6	6.6	6.8	6.9	6.6	6.3	6.7	6.3	
6/22/2011	6.4	6.4	6.8	6.8	6.5	6.3	6.8	6.3	
6/23/2011	6.3	6.3	6.4	6.6	6.4	6.2	6.2	6.2	
6/24/2011	6.4	6.3	6.4	7.0	7.0	6.7	6.3	6.3	
6/25/2011	6.8	6.9	6.9	7.4	7.1	6.6	8.0	6.6	
6/26/2011	6.7	7.0	7.1	7.6	7.2	7.0	8.5	6.7	
6/27/2011	7.1	7.2	7.4	7.7	7.6	6.8	7.4	6.8	
6/28/2011	6.7	6.8	6.8	7.2	6.7	6.4	6.9	6.4	
6/29/2011	6.4	6.6	7.1	6.6	6.7	6.8	6.5	6.4	
6/30/2011	6.9	7.0	7.5	7.2	7.2	7.0	7.1	6.9	
7/1/2011									
Min	6.10	6.24	6.13	6.30	6.19	6.10	6.1	Min	6.06
Max	7.25	7.47	7.69	7.90	7.68	7.50	8.5	Max	7.25
								Avg	6.55

June 2011
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Jun	0.01	0.03	0.00	0.03	0.02	0.04	0.02	
2-Jun	0.02	0.04	0.05	0.03	0.05	0.03	0.04	
3-Jun	0.03	0.04	0.04	0.04	0.03	0.04	0.04	
4-Jun	0.06	0.03	0.03	0.03	0.03	0.03	0.04	
5-Jun	0.01	0.03	0.04	0.04	0.03	0.03	0.03	
6-Jun	0.01	0.03	0.04	0.03	0.02	0.03	0.03	
7-Jun	0.02	0.04	0.04	0.02	0.02	0.04	0.03	
8-Jun	0.03	0.03	0.05	0.05	0.04	0.04	0.04	
9-Jun	0.03	0.04	0.02	0.06	0.04	0.03	0.04	
10-Jun	0.04	0.05	0.06	0.07	0.04	0.05	0.05	
11-Jun	0.04	0.04	0.06	0.02	0.02	0.04	0.04	
12-Jun	0.03	0.04	0.05	0.03	0.03	0.02	0.03	
13-Jun	0.02	0.04	0.07	0.05	0.05	0.04	0.05	
14-Jun	0.02	0.05	0.06	0.04	0.04	0.03	0.04	
15-Jun	0.01	0.04	0.05	0.03	0.03	0.00	0.03	
16-Jun	0.03	0.04	0.03	0.03	0.03	0.02	0.03	
17-Jun	0.00	0.02	0.03	0.03	0.03	0.03	0.02	
18-Jun	0.02	0.04	0.04	0.02	0.05	0.03	0.03	
19-Jun	0.03	0.03	0.03	0.04	0.03	0.03	0.03	
20-Jun	0.04	0.03	0.04	0.03	0.01	0.00	0.03	
21-Jun	0.06	0.03	0.04	0.03	0.03	0.04	0.04	
22-Jun	0.03	0.02	0.03	0.03	0.02	0.01	0.02	
23-Jun	0.03	0.04	0.03	0.03	0.03	0.02	0.03	
24-Jun	0.01	0.04	0.04	0.03	0.03	0.02	0.03	
25-Jun	0.03	0.04	0.03	0.03	0.01	0.04	0.03	
26-Jun	0.04	0.04	0.06	0.03	0.03	0.03	0.04	
27-Jun	0.02	0.01	0.02	0.03	0.03	0.01	0.02	
28-Jun	0.06	0.03	0.03	0.04	0.02	0.03	0.04	
29-Jun	0.05	0.00	0.02	0.00	0.01	0.03	0.02	
30-Jun	0.04	0.06	0.00	0.00	0.02	0.03	0.03	
Average	0.03	0.03	0.04	0.03	0.03	0.03	0.03	
Minimum	0.00	0.00	0.00	0.00	0.01	0.00		
Maximum	0.06	0.06	0.07	0.07	0.05	0.05		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* June 2011

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to Incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 21.92	X 0.01	= 0.00
0.00	X 21.92	X 0.01	= 0.00
0.00	X 21.92	X 0.01	= 0.00
1,433.19	X 21.92	X 0.01	= 314.16
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 314.16

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	314.16
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

07/20/11
Date

City of Reading 3-C Watershed *for the Month* June 2011

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

RECEIVED
EPA REGION III
JUN 28 2011
WATER PROTECTION DIVISION
(3WP00)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	05/01/2011	TO	05/31/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL-001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	66	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.2	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.1	******	7.8		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1994	2319		******	12	13		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	728	******		******	4.6	******		0	Daily	COMP24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	19.04	23.80		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.03	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		06/16/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	05/01/2011	TO	05/31/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	< 0.01560	******		******	< 0.00010	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	2	******		0	Daily	GRAB
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	200 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1904	2124		******	12	14		0	Daily	COMP24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		06/16/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

	May 2011					City of Reading Wastewater Treatment Plant								
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-May	16.6	22	12	13	3.7	19.91	7.4	7.6	0.77		2	50	0.00	41	68
2-May	17.7	23	13	12	4.3	20.53	7.2	7.4	0.96		1	60	0.00	53	75
3-May	18.9	23	16	16	4.7	20.74	6.7	7.4	0.76		2	60	0.02	59	80
4-May	17.6	27	13	14	4.8	23.33	6.9	7.3	0.89		2	60	0.49	45	64
5-May	17.0	25	10	13	5.0	17.40	7.5	7.4	0.75		3	60	0.00	42	68
6-May	17.3	24	12	11	4.1	18.23	6.9	7.4	0.59		4	75	0.00	36	71
7-May	19.7	20	14	11	2.4	17.78	7.0	7.8	1.23		1	65	0.02	43	72
8-May	18.1	19	8	14	3.2	17.59	7.0	7.3	0.99		2	65	0.00	42	76
9-May	17.7	30	17	14	7.9	18.09	6.8	7.3	0.64		2	65	0.00	44	75
10-May	18.4	28	22	14	8.8	16.72	6.7	7.8	0.57		3	65	0.00	42	83
11-May	18.4	30	16	14	9.3	17.71	6.7	7.4	0.72		1	65	0.00	46	79
12-May	18.8	24	14	13	7.5	15.79	6.8	7.4	0.7		1	65	0.00	48	82
13-May	19.6	20	10	10	6.8	16.15	6.9	7.3	0.75		2	60	0.00	53	71
14-May	19.2	24	14	14	7.1	18.40	6.9	7.3	0.54		1	65	0.12	57	62
15-May	18.9	20	12	14	5.1	20.06	6.8	7.2	0.75		3	65	0.92	59	97
16-May	20.4	20	13	10	6.1	21.53	6.8	7.5	0.71		2	75	0.31	59	76
17-May	19.7	17	12	14	5.4	22.12	7.1	7.4	0.74		4	65	0.54	57	64
18-May	18.8	22	12	10	2.5	19.72	7.3	7.4	0.82		2	85	0.10	59	69
19-May	19.4	23	14	19	6.1	20.750	6.5	7.4	0.61		1	85	1.27	58	69
20-May	19.2	20	10	11	4.8	43.80	6.6	7.4	1.26		2	65	0.44	56	73
21-May	19.1	17	9	14	2.3	20.54	7.0	7.6	0.91		2	60	0.00	51	85
22-May	19.1	20	10	13	1.9	20.99	7.1	7.6	0.59		1	65	0.05	56	65
23-May	18.6	19	11	16	4.5	23.10	6.9	7.3	0.83		6	65	0.02	58	75
24-May	20.2	23	13	13	4.7	16.76	6.6	7.2	0.68		1	65	0.00	62	83
25-May	20.9	18	8	12	4.8	18.74	6.5	7.4	0.66		3	65	0.00	58	88
26-May	21.1	17	9	12	3.5	18.66	6.5	7.3	0.80		5	65	0.03	64	89
27-May	21.3	20	13	7	4.2	17.40	6.3	7.4	0.63		6	65	0.00	62	85
28-May	21.6	14	12	10	1.7	16.89	6.5	7.4	0.46		3	65	0.00	61	84
29-May	21.2	17	6	10	1.6	16.61	6.5	7.3	0.56		10	65	0.00	66	86
30-May	22.1	13	8	10	0.6	16.45	6.4	7.1	0.50		1	75	0.00	69	95
31-May	21.8	12	9	8	3.2	17.78	6.2	7.3	0.47		4	65	0.00	65	97
						See DO mails					<				
TOTAL		651	372	386	142.5	590.3	###	229.2	22.87			2040	4.33		
Week 1	17.8	23	13	13	4.1	19.70	7.09	7.47	0.85		2	61	0.08	46	71
Week 2	18.6	25	14	13	7.2	17.21	6.82	7.39	0.71		2	64	0.02	47	75
Week 3	19.4	20	12	13	4.6	21.22	6.87	7.43	0.83		2	71	0.51	57	76
Week 4	20.4	19	11	12	3.6	18.93	6.61	7.35	0.66		4	65	0.01	60	81
Monthly	19.3	21	12	12	4.6	19.04	6.80	7.39	0.74		2	66	0.14	54	78
	All weekly averages reflect the schedule seen below.														
Min =	16.6	12	6	7	0.6	15.79	6.2	7.1	0.46		1	50	0.00	36	62
Max =	22.1	30	22	19	9.3	23.80	7.5	7.8	1.26		10	85	1.27	69	97
	Weekly averages: 5/1-7, 5/8-14, 8/15-21 and 5/22-28. 5/29 - 31 will be included in June's weekly averages.														
DISCHARGE LIMITATIONS															
Ave Monthly:			20	30	6		Min.	6.0			200	186			
Ave Weekly:			30	45			of	to							
Inst. Max:			40	60	12		5.0	9.0				465			

Print Date: 6/15/2011

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-May	6,436	48,761	55,197	4,771	345	59,968	3,653	1,993	2,575	16,960	19,535	61,279	80,814	2,159	290	482	1,760	2241	1,542	6,601	3,784	618
2-May	6,045	43,716	49,761	-2,628		47,132	3,938	2,226	5,063	23,993	29,055	13,336	42,391	2,055	3,267	650	1,667	2,317	2,828	7,706	5,146	738
3-May	9,390	57,172	66,562	-882		65,680	3,978	2,768	9,769	31,503	41,271	18,999	60,271	2,768	488	647	2,007	2,654	2,322	4,695	4,976	820
4-May	9,049	53,668	62,717	-5,304		57,413	5,253	2,529	7,094	26,405	33,499	15,302	48,801	2,724	2,515	594	1,632	2,225	2,770	6,560	4,995	930
5-May	9,413	51,624	61,036	1,184		62,221	3,628	1,451	8,576	50,306	58,882	-11,131	47,751	1,887	3,512	589	1,834	2,423	2,858	5,943	5,282	720
6-May	10,981	52,062	63,044	6,679		69,722	3,649	1,824	7,064	22,150	29,214	20,986	50,200	1,672	2,486	616	1,761	2,377	1,046	2,012	3,423	622
7-May	8,188	43,505	51,693	-1,652		50,040	2,966	2,076	5,651	23,076	28,728	15,359	44,086	1,631	743	633	1,778	2,411	947	976	3,357	353
8-May	8,587	36,624	45,211	4,293	498	49,505	2,787	1,174	5,218	31,365	36,584	39,831	76,415	2,054	3,457	608	1,756	2,364	2,498	1,846	4,862	471
9-May	11,978	63,678	75,656	-22,029		53,627	4,526	2,565	9,838	26,068	35,906	-10,144	25,762	2,112	3,114	629	1,871	2,500	3,717	7,156	6,217	1,187
10-May	7,226	39,090	46,315	2,090		48,405	3,904	3,068	7,406	23,999	31,406	5,867	37,272	1,952	1,883	593	1,682	2,275	3,594	6,941	5,869	1,224
11-May	8,581	47,510	56,091	-3,087		53,004	4,431	2,363	8,189	25,153	33,342	10,541	43,882	2,068	2,570	605	1,770	2,375	2,605	6,320	4,980	1,374
12-May	10,598	51,841	62,440	8,328	424	70,768	3,161	1,844	6,124	34,993	41,117	15,498	56,615	1,712	1,170	612	1,750	2,362	2,604	6,302	4,966	988
13-May	5,759	42,622	48,382	-7,103		41,279	2,694	1,347	6,479	25,759	32,238	3,505	35,743	1,347	2,557	615	1,816	2,431	2,443	6,050	4,874	921
14-May	6,200	41,636	47,836	3,968		51,804	3,683	2,148	5,905	29,436	35,340	12,420	47,761	2,148	446	567	1,762	2,329	1,120	5,278	3,449	1,094
15-May	7,262	38,854	46,116	-1,908	321	44,208	3,346	2,008	7,498	36,196	43,694	-5,063	38,631	2,342	519	578	1,605	2,183	1,191	8,426	3,373	848
16-May	7,686	45,340	53,027	54,346		107,372	3,591	2,334	7,494	26,002	33,496	4,366	37,863	1,796	3,289	794	1,639	2,433	2,681	11,202	5,114	1,097
17-May	7,206	48,127	55,333	-5,325		50,008	3,136	2,214	7,206	25,295	32,500	3,304	35,804	2,583	3,053	616	1,634	2,250	2,514	2,121	4,764	1,002
18-May	7,589	69,343	76,932	-27,208		49,725	3,618	1,974	6,375	23,315	29,690	11,660	41,350	1,645	2,541	604	1,718	2,323	2,336	6,019	4,658	414
19-May	8,757	50,415	59,172	-1,199	533	57,973	3,980	2,423	4,904	27,664	32,568	-379	32,188	3,288	734	657	1,668	2,324	1,587	5,559	3,911	1,054
20-May	8,823	56,475	65,298	-192		65,105	3,970	1,985	5,826	32,630	38,456	73,890	112,346	2,183	706	558	1,851	2,409	1,462	3,377	3,871	955
21-May	7,938	39,309	47,246	1,541		48,788	2,912	1,542	7,691	22,781	30,472	41,240	71,712	2,398	315	893	1,586	2,478	490	437	2,968	394
22-May	6,863	39,974	46,837	-14,066		32,771	3,501	1,751	6,405	21,115	27,520	19,571	47,091	2,276	665	683	1,722	2,405	1,464	5,530	3,869	327
23-May	8,547	48,072	56,619	-3,743	434	52,876	3,660	2,119	6,980	24,036	31,016	16,500	47,516	3,082	858	673	1,770	2,443	1,990	4,574	4,433	861
24-May	8,587	52,062	60,649	-5,745		54,905	3,215	1,817	6,936	24,422	31,358	16,397	47,754	1,817	761	631	1,609	2,240	2,152	1,701	4,392	653
25-May	7,168	42,341	49,509	-6,811		42,698	2,813	1,250	7,073	24,959	32,031	11,526	43,557	1,875	847	704	1,838	2,543	2,229	4,644	4,771	750
26-May	6,881	39,617	46,497	3,988	1,082	50,485	2,646	1,401	6,693	27,630	34,323	72,759	107,082	1,867	1,378	494	1,564	2,058	2,087	4,740	4,145	537
27-May	7,524	48,829	56,353	-19,198		37,156	2,902	1,887	3,415	18,191	21,606	-6,894	14,713	1,016	921	689	1,580	2,269	1,958	5,282	4,227	605
28-May	4,353	32,361	36,715	9,698		46,413	1,972	1,690	5,456	8,042	13,499	18,192	31,691	1,409	692	543	1,781	2,324	1,644	4,352	3,968	244
29-May	7,188	37,697	44,885	-9,553		35,332	2,355	831	4,963	29,705	34,668	-8,273	26,395	1,385	28	613	1,342	1,955	-293	169	1,663	226
30-May	6,785	47,738	54,524	3,250		57,774	1,784	1,098	5,937	26,946	32,883	18,442	51,325	1,372		563	1,888	2,451	532		2,983	77
31-May	6,769	43,785	50,554	-10,481		40,072	1,779	1,335	4,948	24,186	29,134	12,530	41,664	1,186	3,358	620	1,793	2,413	1,926	1,732	4,339	475
TOTAL	244,357	1,453,848	1,698,205	-43,977	3,636	1,654,228	103,433	59,032	200,751	814,280	1,015,031	511,415	1,526,446	61,809	49,163	19,351	53,434	72,785	60,844	144,249	133,629	22,578
Week 1	8,500	50,072	58,573	310	345	58,882	3,866	2,124	6,542	27,770	34,312	19,161	53,473	2,128	1,900	602	1,777	2,378	2,045	4,928	4,423	686
Week 2	8,418	46,143	54,562	-1,934	461	52,627	3,598	2,073	7,023	28,110	35,133	11,074	46,207	1,913	2,171	604	1,772	2,376	2,655	5,699	5,031	1,037
Week 3	7,894	49,695	57,589	2,865	427	60,454	3,508	2,068	6,713	27,698	34,411	18,431	52,842	2,319	1,594	671	1,672	2,343	1,751	5,306	4,094	823
Week 4	7,132	43,322	50,454	-5,125	758	45,329	2,959	1,702	6,137	21,199	27,336	21,150	48,486	1,906	875	631	1,695	2,326	1,932	4,403	4,258	568
Monthly	7,882	46,898	54,781	-1,419	519	53,362	3,337	1,904	6,476	26,267	32,743	16,497	49,240	1,994	1,639	624	1,724	2,348	1,963	4,808	4,311	728
Min =	4353	32361	36715	-27208	321	32,771	1,779	831	2,575	8,042	13,499	-11,131	14,713	1,016	28	482	1,342	1,955	-293	169	1,663	77
Max =	11978	69343	76932	54346	1082	107,372	5,253	3,068	9,838	50,306	58,882	73,890	112,346	3,288	3,512	893	2,007	2,654	3,717	11,202	6,217	1,374
								3,336						7,130								1,000
								5,004						10,696								

Print Date: 6/15/2011

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-May								
2-May								
3-May	< 0.00010	< 0.00379	< 0.00010	< 0.01167	0.00030	0.04636	< 0.00010	< 0.01730
4-May								
5-May								
6-May								
7-May								
8-May								
9-May					0.00010	0.01314	< 0.00010	< 0.01509
10-May	< 0.00010	< 0.00301	< 0.00010	< 0.00909	0.00100	0.12101	< 0.00010	< 0.01394
11-May								
12-May								
13-May								
14-May								
15-May								
16-May								
17-May	0.00020	0.00721	< 0.00010	< 0.01119	< 0.00010	< 0.01480	< 0.00010	< 0.01845
18-May								
19-May								
20-May								
21-May								
22-May								
23-May								
24-May	< 0.00010	< 0.00330	0.00100	0.09466	0.00130	0.16599	< 0.00010	< 0.01398
25-May								
26-May								
27-May								
28-May								
29-May								
30-May								
31-May	< 0.00010	< 0.00284	< 0.00010	< 0.01043	0.00020	0.02654	< 0.00010	< 0.01483
Total	0.00060	0.02015	0.00140	0.13703	0.00300	0.38784	0.00060	0.09358
Week 1	< 0.00010	< 0.00379	< 0.00010	< 0.01167	0.00030	0.04636	< 0.00010	< 0.01730
Week 2	< 0.00010	< 0.00301	< 0.00010	< 0.00909	0.00055	0.06708	< 0.00010	< 0.01452
Week 3	0.00020	0.00721	< 0.00010	< 0.01119	< 0.00010	< 0.01480	< 0.00010	< 0.01845
Week 4	< 0.00010	< 0.00330	< 0.00100	< 0.09466	0.00130	0.16599	< 0.00010	< 0.01398
Monthly	< 0.00012	< 0.00403	< 0.00028	< 0.02741	< 0.00050	< 0.06464	< 0.00010	< 0.01560
Min =	< 0.00010	< 0.00284	< 0.00010	< 0.00909	< 0.00010	0.01314	< 0.00010	< 0.01394
Max =	0.00020	0.00721	0.00100	0.09466	0.00130	0.16599	< 0.00010	< 0.01845
							0.00023	0.055
							0.00046	

Print Date: 6/15/2011

	May 2011				City of Reading Wastewater Treatment Plant																				Laboratory Process Control Data							
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent							
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-May	175	70	7.6	13.1	460	160	9.1	16.6	387	137	15.7	33	429	10.8	420	566	26.5	6.9	10.3	14.7	17.12	285	55	18.3	1.2	6.9	76	58	16.6		3.3	6.9	26	6
2-May	160	134	7.4	17.2	430	236	7.0	16.4	357	208	16.6	-19	96	20.3	338	304	36.9	7.0	9.1	16.7	16.72	260	76	21.8	0.2	6.8	52	52	18.6	320	2.9	7.0	34	22
3-May	248	258	7.5	17.1	490	270	7.1	17.2	431	267	17.2	-6	123	15.0	425	390	32.2	6.9	8.9	17.6	18.53	250	50	21.8	2.5	6.7	60	51	18.7		2.9	7.1	30	12
4-May	250	196	7.5	16.4	500	246	7.0	15.2	437	233	15.5	-37	107	19.3	400	340	34.8	6.7	7.6	16.8	17.21	272	55	19.6	0.1	6.7	71	45	16.0	300	3.0	7.1	52	22
5-May	270	246	7.4	16.9	470	458	7.1	16.7	422	407	16.7	8	-77	19.8	430	330	36.5	7.1	8.0	16.6	17.35	310	60	22.1	3.4	6.5	60	26	18.6		3.8	7.0	40	20
6-May	342	220	7.6	19.2	550	234	7.0	18.6	497	230	18.8	53	166	8.2	550	396	27.0	7.1	8.8	17.1	15.20	318	66	22.7	0.3	6.6	67	45	17.7	300	3.1	7.1	36	18
7-May	255	176	7.3	19.7	460	244	6.9	18.8	408	227	19.0	-13	121	7.5	395	348	26.5	6.8	9.0	17.2	15.19	300	78	20.1	0.4	6.5	51	42	15.4		3.3	6.9	30	16
8-May	260	158	7.4	18.4	390	334	6.9	18.7	356	288	18.6	34	314	19.7	390	602	38.3	6.9	9.6	17.1	15.22	265	58	24.1	1.1	6.6	39	19	18.9		4.8	7.0	32	17
9-May	375	308	7.4	19.7	640	262	7.0	18.8	576	273	19.0	-168	-77	28.3	408	196	47.3	7.2	9.3	16.9	15.76	295	65	28.1	0.5	6.6	52	39	23.3	280	3.6	6.9	39	20
10-May	240	246	7.4	19.7	430	264	6.9	18.5	383	260	18.8	17	48	29.7	400	308	48.5	7.1	8.9	18.2	14.51	290	60	27.1	2.8	6.5	97	77	22.6		4.0	7.1	30	9
11-May	285	272	7.6	20.1	510	270	7.2	19.0	455	270	19.3	-25	86	21.1	430	356	40.4	6.8	8.0	18.7	14.78	295	69	29.3	0.1	6.9	73	47	22.5	280	2.5	7.0	35	23
12-May	360	208	7.6	20.8	560	378	6.9	18.9	512	337	19.4	68	127	21.3	580	464	40.7	6.9	8.4	19.3	14.63	278	55	28.5	1.4	6.7	40	71	21.3		1.8	6.7	26	13
13-May	208	234	7.8	22.2	460	278	7.0	19.6	402	268	20.2	-59	29	20.3	343	297	40.5	7.2	6.1	19.1	14.43	ns	ns	ns	0.2	6.6	44	45	23.6	280	2.9	7.0	26	15
14-May	210	200	7.7	19.2	430	304	7.2	18.2	379	280	18.4	31	98	8.9	410	378	27.3	6.8	5.4	17.8	15.15	270	62	22.1	0.9	6.6	59	53	20.6		3.1	7.0	32	11
15-May	215	222	7.4	17.1	380	354	7.1	15.7	339	321	16.0	-14	-37	8.8	325	284	24.8	6.8	11.4	17.8	16.31	305	108	15.3	0.2	6.9	36	39	16.5		3.3	7.1	25	25
16-May	240	234	7.5	24.8	415	238	7.1	15.0	375	237	17.2	385	31	19.0	760	268	36.2	6.9	8.2	18.5	16.94	225	53	22.6	2.1	6.5	51	52	17.7	300	2.4	6.9	20	6
17-May	200	200	7.7	17.1	430	226	7.0	14.6	374	220	15.2	-36	22	17.0	338	242	32.2	7.3	7.4	17.8	17.74	258	66	19.8	1.6	6.8	37	25	16.9		3.6	6.9	30	16
18-May	250	210	7.5	19.9	690	232	6.9	17.1	588	227	17.7	-208	89	17.9	380	316	35.6	7.3	7.9	18.3	15.69	315	102	21.0	0.2	6.7	47	41	15.8	280	4.3	7.3	33	23
19-May	200	112	7.5	15.0	390	214	7.0	12.9	342	188	13.4	-7	-2	9.2	335	186	22.6	6.8	5.7	19.9	20.75	258	86	16.7	1.1	6.3	62	41	14.9		2.6	7.2	40	27
20-May	212	140	7.1	13.4	360	208	6.9	11.8	329	194	12.1	-1	372	7.4	328	566	19.5	6.8	11.4	17.4	23.80	ns	ns	ns	5.2	6.3	40	31	14.2	260	2.6	6.8	32	28
21-May	225	218	7.5	25.3	352	204	7.1	14.2	322	207	16.9	10	281	3.3	332	488	20.2	7.2	10.4	16.8	17.62	210	76	15.4	1.0	6.9	38	40	14.2		3.8	6.9	29	23
22-May	195	182	7.5	19.4	390	206	7.4	16.8	340	200	17.5	-102	142	10.6	238	342	28.1	7.0	7.6	17.5	16.51	248	56	18.9	1.2	6.8	58	38	14.3		4.9	7.1	25	10
23-May	240	196	7.4	18.9	440	220	7.0	16.2	391	214	16.9	-26	114	13.7	365	328	30.6	7.2	7.7	18.4	17.37	240	48	20.5	0.1	6.5	42	36	17.3	260	4.2	7.0	33	21
24-May	260	210	7.5	19.1	550	258	7.0	17.0	475	246	17.5	-45	128	16.9	430	374	34.4	7.2	9.0	18.5	15.31	282	65	24.2	0.4	6.7	48	43	18.9		4.6	7.0	48	23
25-May	225	222	7.5	22.1	380	224	7.0	16.5	346	224	17.7	-48	80	15.6	298	304	33.3	6.9	6.4	18.3	17.18	232	95	22.5	0.2	6.6	40	35	20.2	280	2.8	6.9	34	17
26-May	220	214	7.4	15.8	390	272	7.1	15.4	350	258	15.5	30	548	15.7	380	806	31.2	7.1	7.4	19.5	15.93	245	88	23.6	0.1	6.7	20	12	18.2		4.3	7.0	18	13
27-May	260	118	7.3	23.8	510	190	6.9	16.5	452	173	18.2	-154	-55	15.7	298	118	33.9	7.1	5.6	20.1	14.95	260	96	26.1	0.1	6.6	30	29	20.8	320	3.4	7.1	18	15
28-May	150	188	7.7	18.7	338	84	7.4	18.6	294	108	18.6	78	146	13.2	372	254	31.8	7.0	3.9	19.5	14.96	220	54	22.9	0.4	6.8	36	44	19.4		4.0	7.4	14	1
29-May	252	174	7.8	21.5	500	394	7.5	17.8	432	334	18.8	-92	-80	-2.8	340	254	16.0	7.5	4.4	19.7	12.46	212	60	20.1	0.1	7.1	34	32	18.8		3.3	7.6	34	19
30-May	240	210	7.6	19.9	450	254	7.3	17.8	406	245	18.2	24	137	4.0	430	382	22.2	6.8	4.4	19.1	16.11	225	68	19.0	0.3	6.6	38	47	16.3		3.1	6.8	10	5
31-May	238	174	8.4	21.8	420	232	7.1	17.2	381	220	18.2	-79	94	14.5	302	314	32.7	7.3	3.9	21.5	15.91	208	71	23.7	0.1	6.7	36	43	19.3		2.5	7.1	28	23
TOTAL	7460	6150	233.1	593.3	14165	7948	221	522.3	12535	7501	539.1	-365	3600	449.6	12170	11101	988.7	###	###	562.4	507.34	7631	2001	637.9	29.4	###	1534	1298	568.1	3460.0	104.6	217.5	939	519
Week 1	243	186	7.4	17.1	480	264	7.3	17.1	420	244	17.1	3	138	14.4	423	382	31.5	6.9	8.8	16.7	16.76	285	63	20.9	1.1	6.7	62	46	17.4	306.7	3.2	7.0	35	17
Week 2	277	232	7.5	20.0	489	299	7.0	18.8	437	282	19.1	-14	89	21.3	423	372	40.4	7.0	8.0	18.2	14.93	282	62	26.5	1.0	6.6	58	50	21.8	280.0	3.3	6.9	31	15
Week 3	220	191	7.4	18.9	431	239	7.0	14.5	381	228	15.5	18	108	11.8	400	336	27.3	7.0	8.9	18.1	18.41	262	82	18.5	1.6	6.6	44	38	15.7	280.0	3.2	7.0	30	21
Week 4	221	190	7.5	19.7	428	208	7.1	16.7	378	203	17.4	-38	158	14.5	340	361	31.9	7.1	6.8	18.8	16.03	247	72	22.7	0.4	6.7	39	34	18.4	286.7	4.0	7.0	27	14
Monthly	241	198	7.5	19.1	457	256	7.1	16.8	404	242	17.4	-12	116	14.5	393	358	31.9	7.0	7.7	18.1	16.37	263	69	22.0	0.9	6.7	49	42	18.3	288.3	3.4	7.0	30	17
Min =	150	70	7.1	13	338	84	6.9	12	294	108	12.1	-208	-80	-2.8	238	118	16.0	6.7	3.9	14.7	12.46	208	48	15.3	0.1	6.3	20	12	14.2	260.0	1.8	6.7	10	1
Max =	375	308	8.4	25	690	458	9.1	20	588	407	20.2	385	548	29.7	760	806	48.5	7.5	11.4	21.5	23.80	318	108	29.3	5.2	7.1	97	77	23.6	320.0	4.9	7.6	52	28
									%Removal						%Removal																			
									94.81	94.85	73.57				94.65	96.52	85.59																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	DO	chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	DO	Nitrite	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
11.1		8.4	130	7.0	32	16	7	4.2			7.3		7.2	76.0	64.0	1455.0
12.7	220	6.5	130	6.9	29	15	15	4.7	200	6.5	7.5	0.598	7.0		424.0	1000.0
12.6		6.8	150	6.9	30	17	13	5.2			6.9		7.1		90.0	866.0
11.9	280	7.0	140	7.0	40	21	14	4.9	220		7.0		6.6		416.0	1085.0
13.2		7.6	170	7.1	33	15	11	5.5			7.7		7.0		656.0	1110.0
12.4	220	7.0	155	7.1	32	16	13	4.4	220		7.4		7.2		797.0	645.0
11.1		7.2	145	6.8	28	20	12	2.5			7.4		7.0		300.0	394.0
12.0		7.9	140	6.8	25	12	7	4.0			8.1		6.9	72.0	500.0	267.0
16.3	260	8.3	135	7.0	42	23	15	8.0	180	6.4	7.6	0.487	25.0		483.0	1110.0
16.1		7.5	150	7.0	24	42	14	8.9			6.9		7.1		297.0	1095.0
16.4	260	6.3	155	6.8	34	20	13	8.9	210		6.1		7.3		394.0	969.0
15.0		6.6	150	7.0	29	18	9	8.1			7.2		7.0	66.0	182.0	980.0
16.1	240	6.4	165	7.0	32	11	14	7.9	200		6.8		7.0		524.0	1240.0
14.3		4.1	135	7.1	38	15	15	7.3			6.8		7.1		122.0	1445.0
11.6		5.5	120	7.2	25	15	23	5.1			7.0		6.9	68.0	110.0	1785.0
11.8	220	5.4	125	6.7	28	15	7	4.8	140	5.8	6.7	0.698	7.1		458.0	1560.0
12.9		6.3	125	7.0	28	16	11	6.9			6.9		7.1		498.0	346.0
10.5	200	7.1	140	7.6	28	16	11	3.1	140		7.5		7.3		418.0	990.0
11.2		6.2	nr	6.9	40	19	27	5.8		2.2	7.4	0.482	7.3	103.0	142.0	1075.0
9.6	220	5.7	120	7.0	34	15	17	4.9	160		6.6		7.1		208.0	995.0
8.8		8.1	125	7.1	20	10	9	2.5			7.3		7.3		121.0	168.0
9.2		8.1	125	7.1	29	14	9	2.5			6.8		7.3		89.0	740.0
12.3	220	6.6	125	7.1	28	14	17	5.0	240		7.0		7.0	81.0	160.0	853.0
12.9		6.8	140	7.1	36	20	17	4.9		4.6	7.7	0.730	7.0		136.0	304.0
13.3	200	5.1	145	7.0	28	12	12	4.8	180		6.4		7.2		140.0	768.0
10.1		6.4	145	7.0	24	11	13	3.4		14.3	6.4	0.429	6.4	157.0	200.0	688.0
13.0	240	5.9	140	6.9	23	13	18	4.7	200		6.6		7.3		190.0	1090.0
10.7		5.1	135	7.1	26	16	18	1.8			6.4		7.4		204.0	1282.0
10.5		5.6	125	7.4	23	10	13	1.9			6.7		7.7		240.0	1445.0
7.9		5.1	120	6.7	17	12	13	0.4			6.6		6.3		ns	ns
11.0		5.5	120	6.9	22	13	17	3.7		8.1	7.4	0.436	7.3		442.0	228.0
378.5	2780.0	201.9	4125.0	217.2	907	502	424	150.3	2290.0	47.9	218.1	3.860	237.7	623.0	9005.0	27978.0
12.1	240.0	7.2	145.7	7.0	32	17	12	4.5	213.3	6.5	7.3	0.598	7.0	76.0	392.4	936.4
15.2	253.3	6.7	147.1	7.0	32	20	12	7.6	196.7	6.4	7.1	0.487	9.6	69.0	357.4	1015.1
10.9	213.3	6.3	125.8	7.1	29	15	15	4.7	146.7	4.0	7.1	0.590	7.2	85.5	279.3	988.4
11.6	220.0	6.3	136.4	7.0	28	14	15	3.8	206.7	9.5	6.8	0.580	7.1	119.0	159.9	817.9
12.2	231.7	6.5	137.5	7.0	29	16	14	4.8	190.8	6.8	7.0	0.551	7.7	89.0	300.2	932.6
7.9	200.0	4.1	120.0	6.7	17	10	7	0.4	140.0	2.2	6.1	0.429	6.3	66.0	64.0	168.0
16.4	280.0	8.4	170.0	7.6	42	42	27	8.9	240.0	14.3	8.1	0.730	25.0	157.0	797.0	1785.0

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May 2011

		Flow (MGD)											On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
1-May	12.710	3.197	0.704	4.410	OOS	17.120	19.910	7.840	5.480	0.544	45.8	32.0						
2-May	12.190	2.706	0.643	4.530	OOS	16.720	20.530	7.970	5.500	0.924	47.7	32.9						
3-May	13.990	2.531	0.631	4.540	OOS	18.530	20.740	8.070	5.410	0.650	43.6	29.2						
4-May	12.870	2.863	0.696	4.340	OOS	17.210	23.330	8.360	5.660	0.725	48.6	32.9						
5-May	13.170	2.537	0.645	4.180	OOS	17.350	17.400	8.110	5.560	0.642	46.7	32.0						
6-May	11.350	2.399	0.551	3.850	OOS	15.200	18.230	7.550	5.570	0.374	49.7	36.6						
7-May	11.340	2.322	0.498	3.850	OOS	15.190	17.780	7.410	5.500	0.297	48.8	36.2						
8-May	11.260	2.489	0.578	3.960	OOS	15.220	17.590	7.740	5.690	0.829	50.9	37.4						
9-May	11.930	2.272	0.581	3.830	OOS	15.760	18.090	7.920	5.550	0.773	50.3	35.2						
10-May	10.900	2.269	0.632	3.610	OOS	14.510	16.720	8.780	4.950	0.760	60.5	34.1						
11-May	11.170	2.221	0.606	3.610	OOS	14.780	17.710	9.440	5.650	0.782	63.9	38.2						
12-May	11.100	2.192	0.593	3.530	OOS	14.630	15.790	9.560	5.840	0.771	65.3	39.9						
13-May	11.110	1.943	0.534	3.320	OOS	14.430	16.150	9.670	5.920	0.585	67.0	41.0						
14-May	11.610	2.250	0.550	3.540	OOS	15.150	18.400	9.250	5.790	0.438	61.1	38.2						
15-May	12.260	2.459	0.608	4.050	OOS	16.310	20.060	8.990	4.880	0.566	55.1	29.9						
16-May	13.100	2.423	0.832	3.840	OOS	16.940	21.530	8.990	5.790	0.861	53.1	34.2						
17-May	13.420	2.548	0.642	4.320	OOS	17.740	22.120	9.510	2.240	0.735	53.6	12.6						
18-May	12.050	2.273	0.646	3.640	OOS	15.690	19.720	7.560	5.650	0.729	48.2	36.0						
19-May	15.500	3.042	0.788	5.250	OOS	20.750	20.750	5.310	1.680	0.620	25.6	8.1						
20-May	18.810	2.910	0.626	4.990	OOS	23.800	23.800	6.410	1.560	0.407	26.9	6.6						
21-May	13.390	2.569	0.563	4.230	OOS	17.620	20.540	8.710	5.910	0.312	49.4	33.5						
22-May	12.290	2.565	0.625	4.220	OOS	16.510	20.990	8.100	6.000	0.896	49.1	36.3						
23-May	13.100	2.471	0.658	4.270	OOS	17.370	23.100	8.420	5.550	0.643	48.5	32.0						
24-May	11.350	2.060	0.604	3.960	OOS	15.310	16.760	8.500	5.770	0.671	55.5	37.7						
25-May	13.360	2.649	0.732	3.820	OOS	17.180	18.740	8.420	5.690	0.725	49.0	33.1						
26-May	12.180	2.294	0.640	3.750	OOS	15.930	18.660	8.180	5.550	0.826	51.3	34.8						
27-May	11.480	2.091	0.614	3.470	OOS	14.950	17.400	7.400	5.580	0.581	49.5	37.3						
28-May	11.480	2.071	0.502	3.480	OOS	14.960	16.890	8.570	5.640	0.407	57.3	37.7						
29-May	9.040	1.907	0.440	3.420	OOS	12.460	16.610	8.600	5.570	0.014	69.0	44.7						
30-May	12.720	2.546	0.693	3.390	OOS	16.110	16.450	9.250	5.690	0.342	57.4	35.3						
31-May	12.500	2.128	0.636	3.410	OOS	15.910	17.780	6.330	5.560	0.911	39.8	34.9						
Total	384.730	75.197	19.291	122.610	0.000	507.340	590.270	254.920	162.380	19.340	1588.0	1020.9						
Week 1	12.517	2.651	0.624	4.243	#DIV/0!	16.760	19.703	7.901	5.526	0.594	47.3	33.1						
Week 2	11.297	2.234	0.582	3.629	#DIV/0!	14.926	17.207	8.909	5.627	0.705	59.8	37.7						
Week 3	14.076	2.603	0.672	4.331	#DIV/0!	18.407	21.217	7.926	3.959	0.604	44.6	23.0						
Week 4	12.177	2.314	0.625	3.853	#DIV/0!	16.030	18.934	8.227	5.683	0.678	51.5	35.6						
Monthly	12.411	2.426	0.622	3.955	#DIV/0!	16.366	19.041	8.223	5.238	0.624	51.2	32.9						
Min =	9.040	1.907	0.440	3.320	0.000	12.460	15.790	5.310	1.560	0.014	25.6	6.6						
Max =	18.810	3.197	0.832	5.250	0.000	23.800	23.800	9.670	6.000	0.924	69.0	44.7						

Influent flow used due to inaccuracy of Effluent flow metering over 25 MGD

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	May 2011			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-May															
2-May	7.1	105	3880	7.1	516	4760	7.2	409	4780	7.1	393	5180	7.1	653	5360
3-May															
4-May	7.0		3960	7.1		5280	7.1		4840	7.1		5080	7.1		5140
5-May															
6-May	7.1	72	4700	7.1	598	5240	7.1	872	4400	7.1	186	4820	7.2	586	5040
7-May															
8-May															
9-May	6.9	895	3400	7.2	802	5000	7.2	602	4740	7.2	109	5100	7.1	909	5240
10-May															
11-May	7.1		4780	7.1		5260	7.2		4610	7.2		4900	7.1		5100
12-May															
13-May	7.0	456	4020	7.1	1012	5000	7.1	884	4620	7.2	1195	5380	7.1	919	5380
14-May															
15-May															
16-May	7.1	144	5440	7.2	581	4820	7.2	265	4960	7.1	426	5300	7.1	520	5160
17-May															
18-May	6.8		4180	7.2		5480	7.1		4360	7.1		5380	7.1		5220
19-May															
20-May	7.1	146	5140	7.1	409	5460	7.2	202	4560	7.2	781	4340	7.1	560	4260
21-May															
22-May															
23-May	7.1	256	5540	7.2	1298	5280	7.2	584	4640	7.2	860	5260	7.1	1047	5280
24-May															
25-May	7.2		5200	7.2		5220	7.3		4320	7.2		5700	7.1		4880
26-May															
27-May	7.1	293	4800	7.2	837	5320	7.2	630	4800	7.1	742	5280	7.1	712	5200
28-May															
29-May															
30-May															
31-May															
Total	84.6	2367	55040	85.8	6053	62120	86.0	4448	55630	85.6	4692	61720	85.3	5906	61260
Week 1	7.0	89	4180	7.1	557	5093	7.2	641	4673	7.1	290	5027	7.1	620	5180
Week 2	7.0	676	4067	7.2	907	5087	7.1	743	4657	7.2	652	5127	7.1	914	5240
Week 3	7.0	145	4920	7.2	495	5253	7.1	234	4627	7.1	604	5007	7.1	540	4880
Week 4	7.1	275	5180	7.2	1,068	5273	7.2	607	4587	7.2	801	5413	7.1	880	5120
Monthly	7.0	296	4587	7.2	757	5177	7.2	556	4636	7.1	587	5143	7.1	738	5105
Min =	6.8	72	3400	7.1	409	4760	7.1	202	4320	7.1	109	4340	7.1	520	4260
Max =	7.2	895	5540	7.2	1298	5480	7.3	884	4960	7.2	1195	5700	7.2	1047	5380

Print Date: 6/15/2011

Dissolved Oxygen -May 2011

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
5/1/2011	7.5	7.7	7.9	7.8	7.6	7.4	8.4		7.4
5/2/2011	7.5	7.6	7.8	7.6	7.4	7.2	7.9		7.2
5/3/2011	7.3	7.2	7.3	7.0	6.8	6.7	7.3		6.7
5/4/2011	6.9	7.2	7.1	7.2	7.5	7.5	7.1		6.9
5/5/2011	7.6	7.8	8.0	7.8	7.7	7.5	8.2		7.5
5/6/2011	7.6	7.7	7.7	7.3	7.1	6.9	7.7		6.9
5/7/2011	7.0	7.0	7.2	7.5	7.0	7.0	7.6		7.0
5/8/2011	7.1	7.2	7.2	7.4	7.1	7.0	7.6		7.0
5/9/2011	7.2	7.2	7.3	7.0	6.9	6.8	8.5		6.8
5/10/2011	7.1	7.2	7.1	7.1	6.9	6.7	8.8		6.7
5/11/2011	6.8	6.9	7.0	7.1	6.9	6.8	6.7		6.7
5/12/2011	6.9	7.0	7.0	7.3	7.2	6.8	7.4		6.8
5/13/2011	7.0	7.0	6.9	7.1	7.2	7.0	7.0		6.9
5/14/2011	7.1	7.0	6.9	7.0	7.1	7.1	7.4		6.9
5/15/2011	7.1	7.1	7.1	6.9	6.9	6.8	7.6		6.8
5/16/2011	6.9	6.9	6.9	7.0	6.9	6.8	7.1		6.8
5/17/2011	7.1	7.1	7.1	7.2	7.3	7.1	7.1		7.1
5/18/2011	7.3	7.3	7.7	7.6	7.4	7.3	7.6		7.3
5/19/2011	7.3	7.4	7.8	7.2	6.7	6.5	7.5		6.5
5/20/2011	6.6	6.8	7.0	6.9	6.9	6.9	6.9		6.6
5/21/2011	7.0	7.3	7.6	7.7	7.2	7.0	7.7		7.0
5/22/2011	7.1	7.2	7.5	7.7	7.6	7.3	7.6		7.1
5/23/2011	7.3	7.4	7.4	7.3	7.1	6.9	7.1		6.9
5/24/2011	7.1	7.0	7.0	7.0	6.8	6.6	8.3		6.6
5/25/2011	6.8	6.8	6.8	6.8	6.6	6.5	6.7		6.5
5/26/2011	6.6	6.7	6.8	6.9	6.6	6.5	6.9		6.5
5/27/2011	6.5	6.6	7.0	6.9	6.7	6.5	6.3		6.3
5/28/2011	6.6	6.6	6.9	6.9	6.6	6.5	6.8		6.5
5/29/2011	6.7	7.1	7.3	7.1	6.8	6.5	7.1		6.5
5/30/2011	6.4	6.7	6.8	7.3	7.0	6.6	7.1		6.4
5/31/2011	6.6	6.8	7.3	6.7	6.4	6.2	6.9		6.2
Min	6.40	6.55	6.78	6.70	6.40	6.20	6.3	Min	6.20
Max	7.60	7.80	8.00	7.80	7.70	7.50	8.8	Max	7.50
								Avg	6.80

May 2011
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-May	0.00	0.11	0.03	0.02	0.03	0.01	0.03	
2-May	0.01	0.00	0.01	0.03	0.02	0.02	0.02	
3-May	0.02	0.10	0.00	0.02	0.02	0.01	0.03	
4-May	0.02	0.02	0.03	0.01	0.02	0.00	0.02	
5-May	0.01	0.00	0.01	0.02	0.01	0.02	0.01	
6-May	0.02	0.04	0.03	0.11	0.01	0.02	0.04	
7-May	0.02	0.02	0.04	0.09	0.04	0.02	0.04	
8-May	0.00	0.03	0.03	0.04	0.07	0.03	0.03	
9-May	0.06	0.03	0.04	0.02	0.17	0.09	0.07	
10-May	0.23	0.04	0.21	0.02	0.04	0.03	0.10	
11-May	0.03	0.05	0.03	0.03	0.02	0.03	0.03	
12-May	0.00	0.03	0.02	0.03	0.01	0.06	0.03	
13-May	0.02	0.05	0.06	0.02	0.02	0.03	0.03	
14-May	0.01	0.02	0.03	0.02	0.00	0.02	0.02	
15-May	0.02	0.03	0.03	0.02	0.01	0.01	0.02	
16-May	0.00	0.03	0.04	0.00	0.02	0.00	0.02	
17-May	0.04	0.03	0.03	0.01	0.03	0.02	0.03	
18-May	0.02	0.02	0.03	0.02	0.03	0.00	0.02	
19-May	0.02	0.03	0.02	0.01	0.01	0.02	0.02	
20-May	0.03	0.21	0.01	0.01	0.03	0.04	0.06	
21-May	0.02	0.02	0.01	0.03	0.01	0.03	0.02	
22-May	0.03	0.03	0.06	0.06	0.03	0.06	0.05	
23-May	0.03	0.05	0.02	0.02	0.02	0.06	0.03	
24-May	0.01	0.04	0.03	0.01	0.04	0.02	0.03	
25-May	0.01	0.03	0.05	0.01	0.04	0.04	0.03	
26-May	0.02	0.03	0.03	0.04	0.04	0.04	0.03	
27-May	0.03	0.04	0.02	0.02	0.03	0.02	0.03	
28-May	0.03	0.03	0.04	0.03	0.05	0.02	0.03	
29-May	0.00	0.04	0.04	0.04	0.04	0.02	0.03	
30-May	0.03	0.03	0.05	0.02	0.02	0.05	0.03	
31-May	0.03	0.05	0.03	0.04	0.04	0.03	0.04	
Average	0.03	0.04	0.04	0.03	0.03	0.03	0.03	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.23	0.21	0.21	0.11	0.17	0.09		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* May 2011

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 20.41	X 0.01	= 0.00
0.00	X 20.41	X 0.01	= 0.00
0.00	X 20.41	X 0.01	= 0.00
1,030.52	X 20.41	X 0.01	= 210.33
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 210.33

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	210.33
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson 06/16/11
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

06/16/11
Date

City of Reading | 3-C Watershed | *for the Month* May 2011

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

EPA REGION III
MAY 27 2011
WATER PROTECTION DIVISION
(3WP00)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	04/30/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	56	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.0	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.0	******	7.9		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	2283	2756		******	12	14		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	1169	******		******	6.6	******		0	Daily	COMP24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	21.50	31.94		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.03	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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	Ralph E. Johnson	610-655-6258		05/20/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	04/30/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	< 0.01884	******		******	< 0.00010	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	1	******		0	Daily	GRAB
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1933	2534		******	10	12		0	Daily	COMP24
80082 1 1 Effluent Gross	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily.	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		05/20/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

	April 2011					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Apr	14.5	16	9	9	11.8	19.76	7.2	7.4	0.92		2	60	0.3	32	46
2-Apr	15.4	12	7	9	6.7	18.61	7.3	7.4	1.10		1	60	0.0	36	55
3-Apr	16.8	18	10	10	7.8	17.48	7.6	7.9	1.03		1	50	0.0	39	59
4-Apr	15.4	17	8	9	9.0	19.10	7.1	7.3	0.95		1	50	0.0	43	77
5-Apr	17.8	22	11	12	12.9	21.36	6.9	7.3	1.19		1	60	0.7	38	68
6-Apr	13.8	12	6	11	7.6	19.09	7.4	7.2	0.95		1	60	0.0	32	53
7-Apr	14.5	20	13	13	13.6	17.62	7.6	7.8	0.73		1	60	0.0	40	57
8-Apr	15.0	12	8	12	15.4	21.83	7.3	7.2	0.78		2	60	0.7	38	44
9-Apr	14.7	21	9	11	6.7	19.92	7.4	7.0	1.06		1	50	0.0	39	56
10-Apr	17.2	18	10	12	5.1	19.57	7.2	7.1	0.74		1	50	0.0	49	61
11-Apr	18.9	23	10	11	8.1	20.81	6.7	7.5	1.03		1	65	0.2	51	83
12-Apr	19.6	22	15	14	10.0	24.12	6.5	7.6	0.88		1	65	0.8	49	66
13-Apr	15.5	17	7	11	7.5	24.40	6.7	7.3	1.01		1	65	0.2	44	50
14-Apr	16.5	19	11	12	5.4	19.96	7.2	7.5	0.92		1.3	50	0.0	44	74
15-Apr	15.5	16	9	10	4.6	19.18	7.0	7.4	0.84		1	60	0.0	44	58
16-Apr	15.7	67	25	22	7.2	31.94	6.4	7.3	1.13		1	60	1.6	42	61
17-Apr	15.9	19	7	18	0.8	24.46	6.8	7.6	1.28		1	42	0.0	47	61
18-Apr	16.2	18	9	9	3.7	20.09	7.0	7.4	1.24		1	50	0.0	43	65
19-Apr	15.7	29	15	11	4.2	24.62	7.1	7.3	0.78		1	60	0.2	42	53
20-Apr	15.7	14	4	10	4.9	21.82	7.1	7.6	0.99		2	60	0.0	46	80
21-Apr	16.3	19	9	8	5.0	20.44	7.1	7.4	0.60		1	50	0.0	45	63
22-Apr	16.0	20	11	12	4.9	19.19	7.0	7.6	0.80		2	60	0.0	33	50
23-Apr	14.6	19	11	15	2.2	21.60	7.1	7.2	0.92		1	60	0.5	40	67
24-Apr	17.0	21	9	12	2.9	20.16	6.9	7.4	0.81		2	60	0.6	57	79
25-Apr	17.8	22	7	14	6.1	24.28	6.5	7.2	1.10		1	42	0.0	59	86
26-Apr	18.6	28	21	14	6.1	23.76	6.5	7.4	0.76		9	50	0.0	65	82
27-Apr	19.0	20	14	12	4.9	21.04	6.8	7.4	0.78		1	60	0.0	63	81
28-Apr	19.9	28	12	23	7.8	24.73	6.0	7.2	0.94		1	50	1.2	55	78
29-Apr	17.7	17	9	16	2.7	22.89	7.4	7.6	1.72		1	50	0.0	45	64
30-Apr	15.8	17	8	10	1.8	21.11	7.3	7.4	0.87		1	50	0.0	46	73
			>			See DO graphs					<				
TOTAL		623	314	372	197.2	644.9	209.3	221.7	28.85			1669	7.2		
Week 1	15.5	17	9	11	9.9	19.00	7.24	7.46	0.98		1	57	0.2	37	59
Week 2	16.8	26	12	13	8.3	21.52	6.99	7.32	0.92		1	58	0.3	45	62
Week 3	15.9	20	9	12	4.3	23.22	6.96	7.44	0.98		1	55	0.3	44	63
Week 4	17.6	22	11	14	5.0	22.11	6.61	7.31	0.87		2	55	0.3	53	75
Monthly	16.4	21	10	12	6.6	21.50	6.98	7.39	0.96		1	56	0.2	45	65
Only highlighted weekly averages have been adjusted as stated below.															
Min =	13.8	12	4	8	0.8	17.48	6.0	7.0	0.60		1	42	0.0	32	44
Max =	19.9	67	25	23	15.4	31.94	7.6	7.9	1.72		9	65	1.6	65	86
Weekly averages: 4/3-9, 4/10-16, 4/17-23 and 4/24-4/30. 4/1 and 4/2 were included in March's weekly averages.															
DISCHARGE LIMITATIONS															
Ave Monthly			25	30	18		Min.	6.0			10,000	186			
Ave Weekly			40	45			of	to							
Inst. Max.			50	60	24		5.0	9.0				465			
Ammonia sample split with commercial lab for verification. Result was 0.8 mg/L. Results were averaged and used for 4/17/11.															

Print Date: 5/19/2011

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Apr	5,111	38,326	43,437	13,141		56,579	2,637	1,483	5,750	68,550	74,299	-13,194	61,105	1,483	1,533	588	1,818	2,406	2,319	2,608	4,724	1,945
2-Apr	3,763	28,770	32,533	8,652		41,185	1,862	1,086	4,155	21,166	25,321	15,067	40,388	1,397	354	446	1,757	2,203	1,238	2,442	3,441	1,035
3-Apr	5,855	35,919	41,773	996	251	42,769	2,624	1,458	7,286	23,687	30,973	7,908	38,881	1,458	344	651	1,786	2,437	622	4,561	3,059	1,131
4-Apr	3,929	38,543	42,473	-4,348		38,125	2,708	1,274	6,054	35,381	41,435	21,253	62,688	1,434	516	483	1,759	2,242	2,939	6,215	5,181	1,435
5-Apr	5,614	40,428	46,043	10,033		56,076	3,919	1,960	9,255	34,653	43,908	9,626	53,534	2,138	777	715	1,837	2,551	2,892	5,977	5,443	2,298
6-Apr	3,044	37,600	40,644	-4,135		36,509	1,911	955	5,540	41,018	46,558	-5,053	41,505	1,751	6,986	603	1,787	2,390	2,773	7,948	5,163	1,213
7-Apr	7,784	40,201	47,985	3,109	562	51,095	2,939	1,910	3,602	24,495	28,097	23,246	51,343	1,910	2,050	607	2,029	2,636	5,053	6,911	7,689	1,999
8-Apr	7,443	40,987	48,430	486		48,916	2,185	1,456	7,869	32,789	40,658	15,674	56,332	2,185	913	627	2,153	2,781	1,574	2,304	4,355	2,804
9-Apr	8,407	36,931	45,338	294		45,631	3,489	1,495	5,805	25,600	31,404	29,438	60,842	1,827	2,338	524	1,595	2,118	1,712	142	3,830	1,108
10-Apr	7,190	41,967	49,157	-9,033	772	40,125	2,938	1,632	6,889	62,740	69,630	-34,486	35,144	1,959	3,191	535	1,899	2,434	2,879	2,595	5,313	829
11-Apr	7,791	49,652	57,443	2,643		60,086	3,992	1,736	9,143	26,549	35,691	18,119	53,810	1,909	1,648	602	1,611	2,213	2,220	5,743	4,433	1,411
12-Apr	8,869	47,380	56,248	37,592		93,840	4,426	3,017	5,593	49,374	54,967	40,848	95,816	2,816	2,687	687	1,933	2,620	3,653	7,072	6,272	2,012
13-Apr	5,698	43,559	49,257	-6,968		42,288	3,459	1,424	5,209	31,381	36,591	8,223	44,813	2,238	1,543	562	1,651	2,213	3,263	3,620	5,475	1,518
14-Apr	8,349	43,085	51,434	11,830	654	63,264	3,163	1,831	2,203	25,981	28,184	28,179	56,362	1,998	2,385	632	1,689	2,321	3,013	5,083	5,334	897
15-Apr	6,842	46,913	53,755	-3,923		49,832	2,559	1,440	5,810	28,773	34,583	8,286	42,869	1,600	3,288	675	1,918	2,593	1,530	3,055	4,123	734
16-Apr	11,065	51,806	62,872	-13,592	175	49,280	17,847	6,659	17,632	49,751	67,382	-36,482	30,900	5,860	246	663	1,955	2,618	339	1,793	2,957	1,923
17-Apr	7,606	42,734	50,340	659		50,999	3,876	1,428	5,456	23,640	29,096	8,644	37,739	3,672		598	1,561	2,159	1,513		3,672	162
18-Apr	6,722	46,103	52,825	-3,973		48,852	3,011	1,506	7,329	70,889	78,219	-33,382	44,837	1,506	2,949	533	1,438	1,971	2,479	5,714	4,450	612
19-Apr	7,132	48,756	55,888	-2,459	482	53,429	5,955	3,080	5,034	34,005	39,039	6,710	45,749	2,259	1,892	449	1,600	2,049	2,860	5,689	4,909	852
20-Apr	3,423	37,480	40,903	-1,431		39,472	2,548	728	3,803	53,971	57,774	-23,817	33,957	1,820	3,194	502	1,638	2,140	1,995	6,382	4,136	892
21-Apr	7,961	63,783	71,745	-13,635		58,109	3,239	1,534	7,818	84,483	92,301	-32,942	59,359	1,364	1,048	592	2,335	2,926	3,025	5,781	5,952	857
22-Apr	7,702	74,878	82,580	541	123	83,121	3,201	1,760	3,122	106,191	109,313	-65,246	44,068	1,921	492	527	1,906	2,433	588	2,356	3,021	781
23-Apr	7,613	53,780	61,393	3,370		64,763	3,423	1,982	3,768	59,278	63,046	-3,337	59,709	2,702		519	1,984	2,503	-292		2,211	393
24-Apr	7,099	33,664	40,763	3,288		44,051	3,531	1,513	7,898	132,182	140,079	-89,639	50,440	2,018		586	1,349	1,935	2,807		4,741	489
25-Apr	2,960	44,990	47,950	-22,833		25,117	4,455	1,417	5,412	43,793	49,206	-3,833	45,373	2,835	4,170	588	1,772	2,359	2,518	8,728	4,878	1,243
26-Apr	9,572	53,544	63,116	-3,700		59,417	5,548	4,161	7,075	23,013	30,088	10,042	40,130	2,774	2,445	620	1,686	2,306	3,604	7,585	5,911	1,203
27-Apr	7,488	56,205	63,693	-21,755		41,939	3,509	2,457	4,895	21,617	26,512	31,913	58,425	2,106	2,132	537	1,643	2,180	1,985	5,468	4,165	863
28-Apr	10,925	48,216	59,141	-3,041	480	56,100	5,775	2,475	9,177	26,685	35,863	26,837	62,699	4,744	596	590	1,622	2,212	737	4,284	2,949	1,611
29-Apr	5,675	47,798	53,473	598		54,071	3,245	1,718	5,431	34,521	39,952	115,676	155,628	3,054	421	567	1,779	2,347	1,986	4,326	4,333	515
30-Apr	5,488	35,699	41,186	5,885		47,071	2,993	1,408	5,801	17,644	23,445	22,491	45,937	1,761	277	572	1,600	2,173	1,911	5,311	4,083	317
												Monthly average used										
TOTAL	204,121	1,349,697	1,553,817	-11,707	3,499	1,542,111	116,967	57,987	189,814	1,313,799	1,503,613	106,768	1,610,381	68,497	50,417	17,379	53,090	70,469	65,735	129,695	136,204	35,084
Week 1	5,014	37,112	42,127	3,921	407	46,048	2,825	1,501	5,949	35,564	41,513	8,408	49,921	1,815	1,794	585	1,825	2,409	2,548	5,237	4,957	1,579
Week 2	7,678	43,366	51,044	5,263	713	56,307	5,483	2,534	6,101	36,345	42,446	15,142	57,588	2,626	2,101	596	1,790	2,386	2,616	3,794	5,002	1,511
Week 3	7,250	48,225	55,475	-5,479	328	49,996	3,607	1,717	7,554	49,359	56,913	-14,712	42,201	2,178	2,103	573	1,778	2,351	1,963	4,736	4,314	862
Week 4	7,623	52,183	59,805	-6,304	302	53,501	4,151	2,164	5,907	58,966	64,872	-13,323	51,549	2,756	1,967	567	1,709	2,276	1,707	5,684	3,982	940
Monthly	6,804	44,990	51,794	-390	437	51,404	3,899	1,933	6,327	43,793	50,120	3,559	53,679	2,283	1,867	579	1,770	2,349	2,191	4,804	4,540	1,169
Min =	2960	28770	32533	-22833	123	25,117	1,862	728	2,203	17,644	23,445	-89,639	30,900	1,364	246	446	1,349	1,935	-292	142	2,211	162
Max =	11065	74878	82580	37592	772	93,840	17,847	6,659	17,632	132,182	140,079	115,676	155,628	5,860	6,986	715	2,335	2,926	5,053	8,728	7,689	2,804
								4,170						7,130								3,000
								6,255						10,696								

Print Date: 5/19/2011

		GC Mercury (Hg)			6th St Mercury (Hg)			Inf. Mercury (Hg)			Eff. Mercury (Hg)		
DATE		mg/L		lbs/day		mg/L		lbs/day	mg/L		lbs/day	mg/L		lbs/day
1-Apr														
2-Apr														
3-Apr														
4-Apr														
5-Apr		0.00030		0.01021	<	0.00010	<	0.01155	0.00090		0.13458	< 0.00010	<	0.01781
6-Apr	<	0.00010	<	0.00304	<	0.00010	<	0.00977	0.00050		0.06405	< 0.00010	<	0.01592
7-Apr														
8-Apr														
9-Apr														
10-Apr														
11-Apr														
12-Apr	<	0.00010	<	0.00399	<	0.00010	<	0.01247	0.00020		0.03293	< 0.00010	<	0.02012
13-Apr														
14-Apr														
15-Apr														
16-Apr														
17-Apr														
18-Apr														
19-Apr		0.00010		0.00420	<	0.00010	<	0.01250	0.00020		0.03339	< 0.00010	<	0.02053
20-Apr														
21-Apr														
22-Apr														
23-Apr														
24-Apr														
25-Apr														
26-Apr	<	0.00010	<	0.00416	<	0.00010	<	0.01139	0.00010		0.01555	< 0.00010	<	0.01982
27-Apr														
28-Apr														
29-Apr														
30-Apr														
Total		0.00070		0.02560		0.00050		0.05768	0.00190		0.28051	0.00050		0.09420
Week 1	<	0.00020	<	0.00663	<	0.00010	<	0.01066	0.00070		0.09932	< 0.00010	<	0.01687
Week 2	<	0.00010	<	0.00399	<	0.00010	<	0.01247	0.00020		0.03293	< 0.00010	<	0.02012
Week 3		0.00010		0.00420	<	0.00010	<	0.01250	0.00020		0.03339	< 0.00010	<	0.02053
Week 4	<	0.00010	<	0.00416	<	0.00010	<	0.01139	0.00010		0.01555	< 0.00010	<	0.01982
Monthly	<	0.00014	<	0.00512	<	0.00010	<	0.01154	0.00038		0.05610	< 0.00010	<	0.01884
Min =	<	0.00010	<	0.00304		0.00010		0.00977	0.00010		0.01555	< 0.00010	<	0.01592
Max =		0.00030		0.01021		0.00010		0.01250	0.00090		0.13458	< 0.00010	<	0.02053
												0.00023		0.055
												0.00046		

	April 2011				City of Reading Wastewater Treatment Plant																					Laboratory Process Control Data							
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent							
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-Apr	160	180	7.4	18.4	350	626	7.0	16.6	307	525	17.0	93	-93	16.4	400	432	33.4	7.3	10.3	14.8	16.96	225	87	23.0	0.2	6.6	60	49	20.3	340	3.0	7.1	32	19
2-Apr	125	138	6.9	14.8	280	206	6.9	17.1	245	191	16.6	65	113	9.3	310	304	25.9	6.7	11.9	14.8	15.93	170	73	19.3	1.2	6.4	55	44	15.9		4.2	6.7	24	19
3-Apr	180	224	7.7	20.0	370	244	7.3	18.4	322	239	18.8	8	61	4.8	330	300	23.6	6.6	11.4	14.5	15.54	180	73	20.6	0.8	6.5	54	53	19.1		3.8	6.8	28	21
4-Apr	135	208	7.5	16.6	390	358	7.1	17.8	332	324	17.5	-34	166	23.0	298	490	40.5	7.4	6.2	13.9	15.34	150	54	27.1	0.3	6.9	62	65	23.8	240	3.5	7.1	16	4
5-Apr	165	272	7.4	21.0	350	300	6.9	15.9	308	294	17.1	67	64	19.3	375	358	36.4	7.1	9.5	15.6	17.93	160	68	23.1	0.4	6.3	46	56	19.1		3.1	6.9	54	31
6-Apr	100	182	7.6	19.8	385	420	7.2	18.3	317	363	18.7	-32	-39	21.6	285	324	40.3	6.5	10.9	16.3	15.36	100	72	25.4	0.3	6.8	71	75	21.3	260	3.5	6.8	34	27
7-Apr	255	118	7.9	19.9	430	262	7.1	21.7	387	227	21.3	25	187	40.7	412	414	62.0	7.1	7.1	14.1	14.87	265	101	30.0	6.7	6.7	66	48	30.6		3.2	7.0	64	54
8-Apr	210	222	7.5	17.7	335	268	8.5	17.6	307	258	17.6	3	99	10.0	310	357	27.6	6.8	12.7	14.6	18.92	175	90	17.4	5.2	6.5	32	30	25.2	260	4.4	7.0	22	24
9-Apr	252	174	7.7	15.7	352	244	7.4	15.2	328	227	15.3	2	213	12.4	330	440	27.7	7.3	14.3	14.9	16.58	212	80	19.4	0.9	6.6	54	44	18.6		6.0	6.8	39	24
10-Apr	215	206	7.8	16.0	400	598	7.5	18.1	355	503	17.6	-65	-249	20.8	290	254	38.4	7.3	14.0	15.9	16.59	ns	ns	ns	0.9	6.7	52	102	16.6		6.4	6.8	33	21
11-Apr	242	284	7.5	18.7	490	262	7.1	15.9	430	267	16.6	20	136	16.6	450	403	33.2	6.9	11.1	15.0	16.01	298	65	23.3	0.3	6.6	76	52	20.1	260	4.1	6.6	52	29
12-Apr	222	140	7.5	17.2	380	396	7.3	15.5	342	334	15.9	228	248	22.2	570	582	38.1	6.9	14.4	15.6	19.74	220	55	22.5	3.5	6.8	54	71	21.5		2.3	6.5	41	16
13-Apr	140	128	7.4	13.8	372	268	7.2	14.1	312	232	14.0	-44	52	20.7	268	284	34.7	7.2	15.6	13.8	18.92	160	87	20.0	8.1	6.5	31	43	16.4	300	3.8	7.2	35	31
14-Apr	235	62	7.3	17.8	398	240	7.3	15.6	358	196	16.1	82	196	21.0	440	392	37.1	7.0	10.9	13.9	17.24	242	55	21.0	5.6	6.9	34	41	18.2		3.7	7.1	26	10
15-Apr	212	180	7.5	20.9	450	276	7.1	18.4	394	253	19.0	-29	61	11.2	365	314	30.2	7.4	9.8	15.4	16.37	240	71	22.3	0.2	6.8	54	49	17.6	320	3.3	7.0	33	17
16-Apr	182	290	7.0	10.9	252	242	7.1	9.5	236	253	9.8	-51	-137	1.3	185	116	11.1	6.7	12.6	14.7	31.94	145	45	12.4	5.3	6.5	46	51	12.8		4.0	7.3	38	37
17-Apr	145	104	7.0	11.4	282	156	7.0	10.3	247	143	10.6	3	42	7.4	250	185	18.0	6.9	15.5	13.7	24.46	170	75	9.5	10.3	6.9	38	23	9.3		5.1	7.0	31	25
18-Apr	155	169	7.7	12.3	372	572	7.5	11.6	316	468	11.8	-24	-200	14.8	292	268	26.6	7.2	14.2	14.0	20.06	215	60	16.4	11.1	7.1	51	47	14.2	240	4.5	7.1	28	19
19-Apr	170	120	7.3	10.7	390	272	7.2	12.8	335	234	12.3	-15	40	17.1	320	274	29.4	7.2	10.0	15.0	20.02	225	65	17.2	2.4	7.0	46	39	14.4		3.6	7.1	36	17
20-Apr	90	100	7.5	13.2	350	504	7.2	15.3	282	398	14.7	-10	-164	13.8	272	234	28.5	7.4	10.0	15.9	17.40	190	53	20.3	3.4	6.9	48	40	17.6	260	3.8	7.0	28	15
21-Apr	222	218	7.5	16.5	530	702	7.1	19.4	459	591	18.7	-87	-211	19.4	372	380	38.1	6.9	13.4	15.2	18.73	260	68	21.1	0.1	6.7	50	41	17.3		4.1	7.0	33	22
22-Apr	222	90	7.3	15.2	770	1092	7.1	19.6	626	829	18.4	4	-495	4.5	630	334	22.9	6.9	9.1	15.5	15.82	270	103	21.3	1.2	6.5	41	23	15.9		4.2	6.8	28	14
23-Apr	198	98	7.1	13.5	450	496	6.8	16.6	389	399	15.8	21	-21	-1.8	410	378	14.0	6.9	9.7	15.2	18.94	208	86	13.7	0.1	6.6	44	41	12.6		4.6	5.7	18	19
24-Apr	160	178	7.1	13.2	272	1068	7.0	10.9	242	833	11.5	20	-533	16.7	262	300	28.2	6.8	10.7	15.1	20.16	ns	ns	ns	0.1	6.7	48	45	15.2		3.5	6.9	31	23
25-Apr	70	128	7.4	13.9	ns	ns	7.1	ns	296	304	14.6	-141	-24	15.5	155	280	30.1	7.3	12.7	15.3	19.43	130	51	21.5	8.0	7.2	44	39	17.1	240	3.4	6.9	30	15
26-Apr	230	170	7.3	14.9	470	202	7.0	14.8	406	193	14.8	-24	65	23.2	382	258	38.0	7.1	10.8	16.3	18.65	240	73	20.8	2.4	6.9	51	45	20.0		3.1	7.2	53	25
27-Apr	205	134	7.4	14.7	520	200	7.0	15.2	440	183	15.1	-150	221	13.7	290	404	28.8	7.0	10.4	17.2	17.34	222	81	20.1	0.1	6.8	96	71	18.5	260	3.8	7.1	32	27
28-Apr	200	168	7.4	10.8	318	176	7.1	10.7	287	174	10.7	-15	130	3.6	272	304	14.3	6.8	7.3	16.9	24.73	190	90	14.5	0.1	6.8	54	57	13.7		2.6	6.4	36	34
29-Apr	140	134	7.4	14.0	360	260	7.0	13.4	309	231	13.5	3	667	11.5	312	898	25.0	7.0	11.5	15.7	20.78	218	77	17.3	6.5	6.8	43	29	14.2	320	3.3	6.8	33	24
30-Apr	140	148	7.5	14.6	348	172	9.3	15.6	290	165	15.3	42	159	13.5	332	324	28.8	7.0	10.7	15.9	17.00	210	56	18.0	1.0	6.9	40	29	15.0		4.2	7.0	30	16
TOTAL	5377	4967	222.0	468.1	11416	11082	217	451.9	10203	9830	466.9	-34	755	444.0	10169	10585	910.9	###	###	454.7	557.76	5690	2014	558.5	86.7	###	1541	1442	532.1	3300.0	116.0	206.8	1018	679
Week 1	160	189	7.5	18.6	365	345	7.1	18.0	317	309	18.1	27	66	19.3	344	375	37.4	6.9	9.6	14.9	15.99	179	75	24.1	1.4	6.6	59	56	21.4	280.0	3.5	6.9	36	25
Week 2	217	174	7.5	16.7	390	325	7.5	16.0	347	288	16.2	32	99	17.7	380	387	33.8	7.1	13.3	14.8	17.71	218	72	20.6	3.5	6.6	48	55	19.5	273.3	4.4	6.9	35	22
Week 3	168	169	7.4	13.7	375	389	7.2	13.9	324	334	13.8	-30	-81	12.1	294	253	26.0	7.1	12.2	14.8	21.28	206	62	17.0	4.7	6.8	48	41	14.7	273.3	4.0	7.1	32	22
Week 4	184	138	7.3	13.7	467	539	7.0	14.6	384	416	14.4	-41	-94	10.8	343	323	25.2	7.0	10.1	15.9	19.30	210	81	18.7	1.7	6.8	54	46	16.1	250.0	3.6	6.7	33	22
Monthly	179	166	7.4	15.6	394	382	7.2	15.6	340	328	15.6	-1	25	14.8	339	353	30.4	7.0	11.3	15.2	18.59	203	72	19.9	2.9	6.7	51	48	17.7	275.0	3.9	6.9	34	23
Min =	70	62	6.9	11	252	156	6.8	10	236	143	9.8	-150	-533	-1.8	155	116	11.1	6.5	6.2	13.7	14.87	100	45	9.5	0.1	6.3	31	23	9.3	240.0	2.3	5.7	16	4
Max =	255	290	7.9	21	770	1092	9.3	22	626	833	21.3	228	667	40.7	630	898	62.0	7.4	15.6	17.2	31.94	298	103	30.0	11.1	7.2	96	102	30.6	340.0	6.4	7.3	64	54
									%Removal						%Removal																			
									93.89	96.22	57.75				93.87	96.49	78.35																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	chloride	DO	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	DO	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
17.7	240	165	6.6	7.1	30	16	11	12.9	240			7.3	7.2		312.0	531.0
13.1		145	7.2	7.0	26	13	10	7.2				7.6	6.6		108.0	745.0
15.2		140	7.9	7.0	26	30	16	7.6				7.8	6.9	54.0	74.0	980.0
17.7	220	145	7.5	7.2	22	9	10	9.0	180			7.3	7.0		70.0	843.0
19.8		145	6.1	7.0	51	17	17	12.7		7.4	0.798	6.3	6.8		122.0	938.0
15.5	240	165	8.4	7.0	27	9	9	7.8	180			7.7	6.9		1024.0	1165.0
18.4		130	7.8	6.9	32	19	30	13.9				7.1	7.1	85.0	310.0	1045.0
20.8	200	145	8.7	6.8	20	11	21	15.9	140			8.5	6.8		366.0	924.0
14.1		140	9.0	7.0	38	16	12	6.9				9.0	7.0		717.0	43.5
12.7		130	9.6	6.8	40	17	19	5.4				9.3	7.0	110.0	455.0	370.0
15.9	180	135	6.3	6.9	45	17	13	8.5	160			6.8	6.8		258.0	899.0
14.6		155	6.6	7.0	37	18	9	9.3		6.8	0.762	6.1	6.5		380.0	1000.0
13.0	260	130	7.6	7.2	31	14	13	7.5	200			7.0	7.3		240.0	563.0
12.6		140	7.8	6.9	33	16	9	5.4				7.6	7.3	96.0	350.0	746.0
12.0	200	155	7.9	7.2	28	14	9	3.4	180			7.3	7.2		764.0	710.0
9.6		130	9.5	7.1	69	22	63	6.0				9.8	7.0	84.0	118.0	860.0
4.1		115	9.6	7.1	34	20	35	0.7				7.5	7.1		ns	ns
10.1	200	135	7.7	7.1	26	12	15	4.2	360	6.0	0.417	8.7	7.5		498.0	965.0
9.7		140	7.3	7.0	30	17	13	3.8				7.5	7.3	83.0	326.0	980.0
11.8	200	165	8.7	7.1	26	11	12	4.5	160			7.8	7.0		500.0	999.0
11.6		165	8.3	7.0	29	12	17	4.7				7.1	7.1		180.0	993.0
13.2		170	7.8	7.0	26	16	11	5.4				7.9	6.5	59.0	236.0	1130.0
8.8		130	7.4	7.3	31	27	21	2.2				8.0	6.1		ns	ns
9.9		125	6.9	6.9	25	15	18	2.9				8.3	7.1		ns	ns
12.0	200	125	7.3	6.6	24	10	5	6.0	140	6.4	0.606	7.1	7.2		516.0	1080.0
13.9		145	6.6	6.7	34	NR	16	6.5				6.9	7.3		324.0	1005.0
12.8	220	135	6.5	6.8	36	31	32	5.2	160			6.6	7.3		324.0	831.0
10.8		125	5.7	7.2	44	16	23	7.7				6.3	7.1	87.0	108.0	776.0
8.9	200	150	7.2	6.7	26	12	11	2.6	160			7.6	7.3		110.0	1130.0
9.1		130	8.7	7.1	20	10	2	2.0				7.8	7.3		78.0	1495.0
389.4	2560	4250	229.9	209.5	966	467	502	197.6	2260.0	26.6	2.583	227.3	210.3	658.0	8868.0	23746.5
16.8	233	148	7.4	7.0	31	16	15	10.1	200.0	7.4	0.798	7.3	6.9	69.5	288.6	892.4
14.8	213	139	7.9	6.9	35	16	14	8.4	166.7	6.8	0.762	7.8	6.9	103.0	395.1	649.4
9.8	200	144	8.4	7.1	35	15	23	3.9	233.3	6.0	0.417	7.9	7.2	83.5	397.7	917.8
11.6	210	136	6.9	6.9	31	19	18	5.1	150.0	6.4	0.606	7.3	6.9	73.0	301.6	964.4
13.0	213	142	7.7	7.0	32	16	17	6.6	188.3	6.7	0.646	7.6	7.0	82.3	328.4	879.5
4.1	180	115	5.7	6.6	20	9	2	0.7	140.0	6.0	0.417	6.1	6.1	54.0	70.0	43.5
20.8	260	170	9.6	7.3	69	31	63	15.9	360.0	7.4	0.798	9.8	7.5	110.0	1024.0	1495.0

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		April 2011																
		Flow (MGD)											On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
1-Apr	13.130	2.338	0.643	3.830	OOS	16.960	19.760	5.720	5.310	0.589	33.726	31.309						
2-Apr	12.320	2.141	0.560	3.610	OOS	15.930	18.610	5.590	5.980	0.393	35.091	37.539						
3-Apr	11.640	2.179	0.647	3.900	OOS	15.540	17.480	5.990	5.910	0.558	38.546	38.031						
4-Apr	11.850	2.393	0.740	3.490	OOS	15.340	19.100	8.640	6.100	0.884	56.323	39.765						
5-Apr	13.850	2.505	0.720	4.080	OOS	17.930	21.360	8.870	6.050	0.764	49.470	33.742						
6-Apr	11.710	1.822	0.552	3.650	OOS	15.360	19.090	8.730	5.810	0.818	56.836	37.826						
7-Apr	11.210	2.448	0.943	3.660	OOS	14.870	17.620	9.230	6.130	0.793	62.071	41.224						
8-Apr	14.670	2.827	0.554	4.250	OOS	18.920	21.830	9.240	5.950	0.299	48.837	31.448						
9-Apr	12.580	2.673	0.685	4.000	OOS	16.580	19.920	8.840	5.770	0.391	53.317	34.801						
10-Apr	12.580	2.147	0.513	4.010	OOS	16.590	19.570	8.850	5.900	0.841	53.345	35.564						
11-Apr	12.150	2.264	0.630	3.860	OOS	16.010	20.810	8.440	5.990	0.766	52.717	37.414						
12-Apr	14.950	2.893	0.755	4.790	OOS	19.740	24.120	8.760	4.690	0.848	44.377	23.759						
13-Apr	14.040	2.885	0.730	4.880	OOS	18.920	24.400	8.480	5.510	0.771	44.820	29.123						
14-Apr	12.980	2.415	0.672	4.260	OOS	17.240	19.960	8.720	5.610	0.817	50.580	32.541						
15-Apr	12.500	2.326	0.611	3.870	OOS	16.370	19.180	5.700	5.760	0.516	34.820	35.186						
16-Apr	24.650	4.807	0.802	7.290	OOS	31.940	31.940	2.890	1.370	0.250	9.048	4.289						
17-Apr	18.170	3.638	0.658	6.290	OOS	24.460	24.460	9.690	2.230	0.600	39.616	9.117						
18-Apr	14.860	3.065	0.686	5.200	OOS	20.060	20.060	9.530	5.510	0.710	47.507	27.468						
19-Apr	14.990	3.102	0.730	5.030	OOS	20.020	24.620	9.700	5.870	0.696	48.452	29.321						
20-Apr	12.840	2.345	0.624	4.560	OOS	17.400	21.820	9.110	5.300	0.766	52.356	30.460						
21-Apr	14.430	3.098	0.630	4.300	OOS	18.730	20.440	9.070	5.520	0.698	48.425	29.471						
22-Apr	11.660	2.557	0.550	4.160	OOS	15.820	19.190	9.220	5.680	0.250	58.281	35.904						
23-Apr	14.330	2.588	0.507	4.610	OOS	18.940	21.600	7.670	5.270	0.158	40.496	27.825						
24-Apr	14.840	3.696	0.705	5.320	OOS	20.160	20.160	8.100	4.500	0.663	40.179	22.321						
25-Apr	14.360	3.141	0.519	5.070	OOS	19.430	24.280	6.230	5.440	0.969	32.064	27.998						
26-Apr	13.660	2.750	0.886	4.990	OOS	18.650	23.760	6.270	5.190	0.905	33.619	27.828						
27-Apr	12.960	2.887	0.747	4.380	OOS	17.340	21.040	6.400	5.390	0.789	36.909	31.084						
28-Apr	18.180	3.718	0.754	6.550	OOS	24.730	24.730	5.170	1.740	0.662	20.906	7.036	13:00	14:00				
29-Apr	15.920	3.011	0.591	4.860	OOS	20.780	22.890	7.810	5.760	0.459	37.584	27.719						
30-Apr	12.300	2.729	0.537	4.700	OOS	17.000	21.110	7.560	5.500	0.426	44.471	32.353						
Total	420.310	83.388	19.881	137.450	0.000	557.760	644.910	234.220	156.740	19.049	1304.790	889.47						
Week 1	12.244	2.261	0.686	3.746	#DIV/0!	15.990	19.003	7.539	5.899	0.686	47.438	37.06						
Week 2	13.421	2.586	0.648	4.293	#DIV/0!	17.714	21.516	8.761	5.631	0.676	49.713	32.09						
Week 3	16.063	3.197	0.677	5.220	#DIV/0!	21.283	23.217	7.956	4.509	0.605	40.032	23.62						
Week 4	14.284	3.048	0.667	5.011	#DIV/0!	19.296	22.109	7.009	4.744	0.628	37.493	25.71						
Monthly	14.010	2.780	0.663	4.582	#DIV/0!	18.592	21.497	7.807	5.225	0.635	43.493	29.65						
Min =	11.210	1.822	0.507	3.490	0.000	14.870	17.480	2.890	1.370	0.158	9.048	4.29						
Max =	24.650	4.807	0.943	7.290	0.000	31.940	31.940	9.700	6.130	0.969	62.071	41.22						
		Influent flow used due to inaccuracy of Effluent flow metering over 25 MGD																

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	April 2011			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Apr	7.1	448	4220	7.1	990	4460	7.2	55	5000	7.2	283	5200	7.1	421	5000
2-Apr															
3-Apr															
4-Apr	7.0	79	3980	7.1	1076	4520	7.2	745	4880	7.2	934	5000	7.1	652	5060
5-Apr															
6-Apr	7.0		4380	7.1		4580	7.2		4600	7.2		4400	7.2		5100
7-Apr															
8-Apr	7.1	41	4260	7.2	328	4660	7.2	1113	4600	7.2	607	4980	7.2	769	5020
9-Apr															
10-Apr															
11-Apr	7.0	631	4000	7.0	800	4420	7.2	1110	4560	7.2	1624	5120	7.1	752	4960
12-Apr															
13-Apr	7.1		4500	7.1		4680	7.2		4560	7.1		5320	7.1		5140
14-Apr															
15-Apr	6.9	552	4100	6.9	555	4610	7.0	1207	2540	7.1	317	5520	7.0	138	4920
16-Apr															
17-Apr															
18-Apr	6.9	631	2200	7.0	689	4840	7.1	841	4600	ns	ns	ns	7.0	193	4940
19-Apr															
20-Apr	6.8	676	2520	6.9	521	4680	7.1	531	4920	7.1	121	5220	7.1	241	4640
21-Apr															
22-Apr															
23-Apr															
24-Apr															
25-Apr	6.8	776	3120	7.0	115	4860	7.0	283	4660	7.0	362	5040	7.0	586	5020
26-Apr															
27-Apr	7.1		4560	7.1		4720	7.1		4580	7.1		4980	7.1		4980
28-Apr															
29-Apr	7.0	855	4820	7.0	1248	3740	7.1	834	4880	7.1	745	4960	7.1	631	5140
30-Apr															
Total	83.9	4689	46660	84.4	6322	54770	85.5	6719	54380	78.4	4993	55740	85.2	4383	59920
Week 1	7.0	264	4193	7.1	1,033	4520	7.2	400	4827	7.2	609	4867	7.1	537	5053
Week 2	7.1	336	4253	7.1	564	4587	7.2	1,112	4573	7.2	1,116	5140	7.2	761	5040
Week 3	6.9	620	2940	6.9	588	4710	7.1	860	4020	7.1	219	5370	7.0	191	4833
Week 4	6.9	776	3840	7.0	115	4790	7.1	283	4620	7.0	362	5010	7.1	586	5000
Monthly	7.0	521	3888	7.0	702	4564	7.1	747	4532	7.1	624	5067	7.1	487	4993
Min =	6.8	41	2200	6.9	115	3740	7.0	55	2540	7.0	121	4400	7.0	138	4640
Max =	7.1	855	4820	7.2	1248	4860	7.2	1207	5000	7.2	1624	5520	7.2	769	5140

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Dissolved Oxygen -April 2011

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
4/1/2011	7.5	7.4	7.3	7.3	7.2	7.2	7.7	7.2	
4/2/2011	7.4	7.5	7.4	7.4	7.4	7.3	8.1	7.3	
4/3/2011	7.5	7.5	7.7	7.9	7.8	7.7	8.4	7.5	
4/4/2011	7.7	7.6	7.6	7.4	7.2	7.1	7.9	7.1	
4/5/2011	7.0	7.0	6.8	6.6	6.9	7.2	6.9	6.6	
4/6/2011	7.4	7.6	7.7	7.8	7.6	7.5	8.1	7.4	
4/7/2011	7.6	7.6	7.8	8.0	8.2	7.9	7.8	7.6	
4/8/2011	8.0	8.0	7.9	7.4	7.3	7.2	9.2	7.2	
4/9/2011	7.4	7.5	7.6	7.6	7.5	7.4	7.9	7.4	
4/10/2011	7.5	7.5	7.5	7.5	7.4	7.2	9.5	7.2	
4/11/2011	7.2	7.3	7.1	6.9	6.7	7.4	7.2	6.7	
4/12/2011	6.5	6.6	6.7	6.7	7.3	6.7	6.7	6.5	
4/13/2011	6.7	6.8	6.9	7.4	7.5	7.4	7.1	6.7	
4/14/2011	7.6	7.7	7.6	7.6	7.4	7.2	8.1	7.2	
4/15/2011	7.4	7.7	7.6	7.4	7.5	7.5	7.7	7.4	
4/16/2011	7.5	7.7	8.0	7.6	7.2	6.4	8.5	6.4	
4/17/2011	6.2	6.8	8.3	8.9	8.4	7.6	8.4	6.2	
4/18/2011	7.6	8.3	8.1	7.9	7.6	7.3	9.0	7.3	
4/19/2011	7.3	7.6	7.7	7.4	7.4	7.1	7.8	7.1	
4/20/2011	7.3	7.4	7.5	7.5	7.4	7.1	8.2	7.1	
4/21/2011	7.2	7.4	7.4	7.3	7.3	7.3	7.7	7.2	
4/22/2011	7.6	7.8	7.9	7.8	7.7	7.8	8.6	7.6	
4/23/2011	7.8	7.9	7.9	7.3	7.3	7.3	8.3	7.3	
4/24/2011	7.4	7.8	7.8	7.1	7.1	6.2	8.6	6.2	
4/25/2011	6.3	6.6	6.9	6.6	6.5	6.3	7.3	6.3	
4/26/2011	6.6	6.8	7.0	6.5	6.5	6.3	7.3	6.3	
4/27/2011	6.6	6.7	7.0	7.0	6.8	6.6	7.1	6.6	
4/28/2011	6.8	6.8	6.7	6.0	6.1	6.6	6.9	6.0	
4/29/2011	7.7	7.8	7.6	7.4	7.5	7.4	7.9	7.4	
4/30/2011	7.6	7.9	8.1	7.8	7.6	7.3	8.3	7.3	
5/1/2011									
Min	6.20	6.60	6.70	6.00	6.10	6.20	6.7	Min	6.00
Max	8.00	8.30	8.30	8.90	8.40	7.90	9.5	Max	7.60
								Avg	6.98

	April 2011 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Apr	0.02	0.04	0.03	0.01	0.00	0.01	0.02	
2-Apr	0.00	0.14	0.02	0.04	0.01	0.05	0.04	
3-Apr	0.02	0.16	0.03	0.04	0.02	0.19	0.08	
4-Apr	0.03	0.13	0.03	0.02	0.01	0.01	0.04	
5-Apr	0.02	0.07	0.00	0.02	0.01	0.02	0.02	
6-Apr	0.03	0.04	0.01	0.01	0.02	0.10	0.04	
7-Apr	0.02	0.00	0.12	0.02	0.01	0.09	0.04	
8-Apr	0.02	0.01	0.04	0.01	0.01	0.00	0.02	
9-Apr	0.03	0.02	0.02	0.01	0.07	0.13	0.05	
10-Apr	0.00	0.03	0.03	0.00	0.02	0.08	0.03	
11-Apr	0.18	0.03	0.03	0.02	0.06	0.03	0.06	
12-Apr	0.06	0.03	0.03	0.03	0.04	0.03	0.04	
13-Apr	0.10	0.11	0.19	0.02	0.02	0.00	0.07	
14-Apr	0.02	0.01	0.01	0.04	0.00	0.03	0.02	
15-Apr	0.01	0.02	0.02	0.01	0.01	0.01	0.01	
16-Apr	0.01	0.01	0.01	0.02	0.01	0.00	0.01	
17-Apr	0.00	0.00	0.00	0.01	0.00	0.00	0.00	
18-Apr	0.01	0.02	0.02	0.01	0.01	0.00	0.01	
19-Apr	0.03	0.03	0.01	0.14	0.02	0.02	0.04	
20-Apr	0.00	0.04	0.00	0.00	0.02	0.04	0.02	
21-Apr	0.00	0.00	0.01	0.00	0.02	0.02	0.01	
22-Apr	0.01	0.00	0.01	0.02	0.01	0.02	0.01	
23-Apr	0.01	0.02	0.02	0.02	0.01	0.00	0.01	
24-Apr	0.01	0.00	0.02	0.02	0.03	0.19	0.05	
25-Apr	0.03	0.02	0.01	0.00	0.02	0.00	0.01	
26-Apr	0.00	0.05	0.00	0.00	0.03	0.03	0.02	
27-Apr	0.03	0.02	0.01	0.01	0.03	0.03	0.02	
28-Apr	0.01	0.02	0.01	0.07	0.01	0.02	0.02	
29-Apr	0.23	0.16	0.01	0.01	0.01	0.03	0.08	
30-Apr	0.01	0.02	0.01	0.02	0.01	0.02	0.02	
Average	0.03	0.04	0.03	0.02	0.02	0.04	0.03	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.23	0.16	0.19	0.14	0.07	0.19		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* April 2011

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to Incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 18.97	X 0.01	= 0.00
0.00	X 18.97	X 0.01	= 0.00
0.00	X 18.97	X 0.01	= 0.00
1,094.29	X 18.97	X 0.01	= 207.59
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 207.59

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	207.59
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

05/23/11
Date

City of Reading | 3-C Watershed | *for the Month* April 2011

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

DMR Mailing ZIP Code 19605-3690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

RECEIVED
EPA REGION III
APR 22 2011
WATER PROTECTION DIVISION
(3WP00)

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	54	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	5.4	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.0	******	7.7		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	2073	4001		******	10	15		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	1971	******		******	11.1	******		0	Daily	COMP24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	21.65	45.43		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.03	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		04/19/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

On March 11, 2011 during a high flow storm event, we had our intermediate clarifiers overflow for approximately 45 minutes due to a MOV failure on a valve. The on-duty electrician had to be called in to reset the valve. All the overflow was recollected into the WWTP and included in the effluent flow measurement and sample.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	< 0.01230	******		******	<0.00007	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	2	******		0	Daily	GRAB
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	2105	3261		******	11	13		0	Daily	COMP24
80082 1 1 Effluent Gross	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		04/19/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

	March 2011					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
27-Feb		14	10	5		20.76									
28-Feb		25	12	11		22.14									
1-Mar	14.1	19	11	6	11.3	19.08		7.3	0.82		1	60	0.00	26	52
2-Mar	14.3	18	12	10	15.7	18.00		7.5	0.96		1	60	0.00	25	55
3-Mar	13.5	17	9	6	14.7	17.08		7.7	0.72		4	65	0.00	18	42
4-Mar	14.3	18	11	5	16.9	17.04		7.7	0.61		3	60	0.00	24	47
5-Mar	14.8	22	12	5	14.6	17.69		7.3	1.07		1	60	0.00	39	61
6-Mar	15.8	39	18	24	14.7	25.43		7.3	0.90		1	50	1.70	36	57
7-Mar	13.0	18	13	5	7.4	22.60		7.2	2.55		1	42	0.14	28	48
8-Mar	12.9	15	10	10	10.4	24.30		7.3	1.28		4	50	0.00	22	52
9-Mar	12.3	16	9	10	10.8	23.02		7.5	1.05		2	50	0.00	31	43
10-Mar	13.1	25	17	34	11.6	45.43		7.5	1.56		1	42	2.43	38	58
11-Mar	13.3	22	16	14	6.0	34.71		7.0	1.19		44	35	0.09	36	53
12-Mar	14.5	16	11	7	6.8	18.95		7.6	0.63		36	42	0.00	35	57
13-Mar	13.3	19	11	9	7.9	23.66		7.3	1.10		3	42	0.00	33	46
14-Mar	12.9	14	11	6	8.9	22.62		7.2	1.11		1	50	0.00	29	46
15-Mar	13.5	23	13	12	11.2	23.81		7.4	1.23		4	42	0.04	23	52
16-Mar	14.8	21	11	6	12.4	23.55		7.5	0.88		2	50	0.54	38	56
17-Mar	15.4	18	11	8	10.8	21.62		7.4	1.01		1	60	0.00	40	66
18-Mar	15.1	18	10	8	12.4	20.31		7.3	1.08		1	60	0.00	43	79
19-Mar	15.2	18	11	10	9.9	19.03		7.4	0.87		2	60	0.00	39	65
20-Mar	13.0	21	12	11	9.3	20.28		7.2	0.98		1	60	0.00	26	55
21-Mar	15.1	22	11	6	11.1	21.42		7.4	0.83		2	50	0.49	37	57
22-Mar	14.8	13	10	8	11.5	19.47		7.3	0.53		8	60	0.00	38	55
23-Mar	15.7	18	12	11	11.4	22.95		7.4	0.80		2	60	0.56	33	41
24-Mar	13.5	20	7	11	11.2	20.18		7.5	0.83		1	60	0.08	30	45
25-Mar	13.4	20	12	13	10.2	18.89		7.4	0.73		2	60	0.00	24	41
26-Mar	13.3	18	7	10	9.0	17.88		7.7	0.50		1	60	0.00	22	43
27-Mar	13.8	16	10	10	8.9	19.02		7.7	0.48		1	60	0.00	26	47
28-Mar	12.6	21	14	13	9.9	18.30		7.4	0.84		1	60	0.00	24	47
29-Mar	14.4	20	9	12	11.0	17.83		7.6	0.77		2	60	0.00	27	53
30-Mar	14.8	16	10	10	10.6	18.27		7.6	0.51		1	50	0.02	24	51
31-Mar	13.9	18	8	13	14.6	18.73		7.4	0.74		1	60	0.18	35	42
1-Apr		16	9	9		19.76									
2-Apr		12	7	9		18.61									
											<				
TOTAL		599	349	323	343.1	671.10	228.8	230.0	29.16			1680	6.27		
Week 1	14.3	19	11	7	13.6	19.55	7.43	7.45	1.09		2	57	0.26	28	52
Week 2	13.2	22	13	15	8.9	27.53	7.82	7.33	1.13		13	44	0.36	32	51
Week 3	14.6	19	11	8	11.0	21.43	7.07	7.39	0.98		2	55	0.15	35	61
Week 4	13.9	19	10	10	10.3	19.53	7.25	7.49	0.67		2	60	0.09	28	46
Week 5		17	10	11											
Monthly	14.0	19	11	10	11.1	21.65	7.38	7.42	0.94		2	54	0.20	31	52
Only highlighted weekly averages have been adjusted as stated below.															
Min =	12.3	13	7	5	6.0	17.04	5.4	7.0	0.48		1	35	0.00	18	41
Max =	15.8	39	18	34	16.9	45.43	8.4	7.7	2.55		44	65	2.43	43	79
Weekly averages: 2/27-3/5, 3/6-12, 3/13-19, 3/20-26 and 3/27-4/2.															
DISCHARGE LIMITATIONS															
Ave Monthly:			25	30	18		Min.	6.0			10,000	186			
Ave Weekly:			40	45			of	to							
Inst. Max:			50	60	24		5.0	9.0				465			

Print Date: 4/19/2011

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
27-Feb							2,424	1,731														0
28-Feb							4,616	2,216														0
1-Mar	5,911	46,087	51,998	-3,542		48,456	3,023	1,750	5,754	28,676	34,430	13,223	47,653	955	1,457	582	1,567	2149	3,487	6,577	5,635	1,798
2-Mar	4,466	33,302	37,768	10,587		48,354	2,702	1,801	3,632	32,898	36,530	17,966	54,497	1,501	1,104	646	1,837	2,483	3,385	3,114	5,868	2,357
3-Mar	3,907	36,443	40,350	6,801	592	47,151	2,422	1,282	3,010	34,276	37,286	12,668	49,955	855	3,694	605	1,852	2,457	2,857	991	5,314	2,094
4-Mar	5,317	48,399	53,716	-6,812		46,904	2,558	1,563	3,942	34,484	38,427	9,365	47,792	711	1,859	630	1,815	2,445	2,245	2,996	4,690	2,402
5-Mar	7,249	63,681	70,930	661		71,591	3,246	1,770	5,307	33,357	38,664	23,441	62,105	738	215	536	2,547	3,083	3,378	2,773	6,461	2,154
6-Mar	7,032	39,443	46,475	21,683	286	68,157	8,255	3,810	5,454	49,759	55,213	1,514	56,727	5,080	195	599	1,462	2,062	732	3,668	2,794	3,112
7-Mar	6,433	39,624	46,057	-4,967		41,090	3,393	2,450	6,709	57,867	64,577	-28,011	36,566	942	3,714	556	1,397	1,953	3,136	4,340	5,089	1,395
8-Mar	7,237	44,521	51,758	-1,584		50,173	3,040	2,027	5,344	27,287	32,631	18,640	51,271	2,027	1,623	575	1,532	2,107	2,910	5,253	5,017	2,108
9-Mar	6,363	37,577	43,940	966		44,907	3,072	1,728	4,654	33,584	38,239	7,898	46,137	1,920	1,269	600	1,503	2,103	3,264	4,152	5,367	2,073
10-Mar	17,247	28,715	45,962	3,293	499	49,255	9,472	6,441	11,376	49,963	61,339	-2,233	59,106	12,882	1,696	688	1,651	2,339	1,753	2,618	4,092	4,395
11-Mar	8,839	46,401	55,240	-6,028		49,212	6,369	4,632	4,798	97,329	102,128	-63,337	38,791	4,053	2,476	560	1,492	2,052	2,609	5,100	4,661	1,746
12-Mar	5,714	34,798	40,512	-4,952		35,560	2,529	1,738	4,835	18,711	23,546	3,006	26,551	1,106	1,713	475	958	1,433	1,317	567	2,750	1,070
13-Mar	8,928	45,158	54,087	10,636	301	64,722	3,749	2,171	5,220	13,335	18,555	10,254	28,809	1,776	2,347	545	1,491	2,036	1,851	190	3,887	1,553
14-Mar	5,427	43,704	49,131	147		49,278	2,641	2,075	5,306	28,978	34,284	9,748	44,032	1,132	1,183	583	1,508	2,091	3,457	4,633	5,548	1,685
15-Mar	7,839	42,634	50,473	7,233		57,706	4,567	2,581	5,065	25,460	30,525	8,266	38,791	2,383	2,132	856	1,573	2,429	3,533	4,271	5,963	2,224
16-Mar	6,565	44,526	51,091	1,618		52,709	4,125	2,160	5,088	50,957	56,045	-1,689	54,356	1,178	1,061	628	1,657	2,285	3,875	2,960	6,160	2,435
17-Mar	7,335	41,658	48,993	4,329	484	53,322	3,246	1,983	5,567	31,976	37,542	16,831	54,374	1,442	2,279	553	1,520	2,073	2,689	874	4,761	1,947
18-Mar	7,095	55,558	62,653	33,574		96,227	3,049	1,694	6,208	17,172	23,381	87,601	110,982	1,355	240	542	1,629	2,171	2,640	3,579	4,811	2,100
19-Mar	10,532	37,718	48,249	17,790		66,039	2,857	1,746	7,386	19,714	27,100	11,985	39,085	1,587	247	581	1,569	2,150	1,313	3,342	3,464	1,574
20-Mar	3,570	50,525	54,095	4,118	761	58,213	3,552	2,030	2,499	23,066	25,565	23,917	49,481	1,860	397	600	1,779	2,379	1,288	4,511	3,667	1,575
21-Mar	8,545	45,957	54,502	7,848		62,350	3,930	1,965	4,291	75,324	79,615	-27,954	51,661	1,072	941	676	1,760	2,436	2,166	3,087	4,602	1,983
22-Mar	6,375	38,696	45,071	3,358		48,429	2,111	1,624	6,604	28,105	34,709	16,948	51,657	1,299	360	624	1,639	2,264	1,960	5,020	4,224	1,867
23-Mar	5,972	48,358	54,330	-3,493		50,837	3,445	2,297	4,778	80,902	85,679	-47,858	37,821	2,105	706	578	1,604	2,182	1,937	2,388	4,119	2,182
24-Mar	7,938	45,294	53,231	-4,017	335	49,214	3,366	1,178	6,491	85,742	92,233	-37,394	54,839	1,851	1,863	628	1,885	2,513	1,916	4,589	4,429	1,885
25-Mar	5,885	44,315	50,200	11,743		61,943	3,151	1,891	5,754	79,552	85,306	-26,178	59,127	2,048	502	539	1,946	2,485	1,795	2,065	4,280	1,607
26-Mar	5,735	36,516	42,251	2,606		44,857	2,684	1,044	5,161	48,492	53,653	46,073	99,726	1,491	3,902	586	1,865	2,451	1,631	1,347	4,083	1,338
27-Mar	7,468	42,494	49,962	3,243	373	53,206	2,538	1,586	5,245	50,800	56,044	-2,838	53,206	1,586	4,252	644	1,854	2,498	1,732	1,170	4,231	1,412
28-Mar	6,592	42,822	49,414	-1,844		47,569	3,205	2,137	5,071	49,102	54,173	-3,432	50,741	1,984	6,365	599	1,894	2,493	3,888	2,565	6,381	1,514
29-Mar	4,884	43,265	48,148	8,547		56,695	2,974	1,338	4,518	49,754	54,272	21,494	75,766	1,784	1,555	577	1,849	2,425	3,231	1,903	5,657	1,636
30-Mar	9,259	36,889	46,149	-4,095		42,054	2,438	1,524	7,043	32,036	39,079	36,873	75,951	1,524	2,322	571	1,796	2,367	3,865	8,380	6,232	1,615
31-Mar	6,326	39,584	45,910	-2,497	1,003	43,413	2,812	1,250	6,974	93,784	100,758	-58,669	42,089	2,031	3,212	620	1,857	2,478	3,717	6,424	6,194	2,281
1-Apr							2,637	1,483						1,483								
2-Apr							1,862	1,086						1,397								
									Monthly average used													
TOTAL	217,984	1,324,660	1,542,644	116,949	4,634	1,659,593	110,519	65,267	169,083	1,382,444	1,551,527	98,117	1,649,644	64,259	56,880	18,584	52,290	70,873	79,558	105,450	150,432	61,116
Week 1	5,759	43,854	49,613	3,487	439	53,100	2,999	1,731	4,830	38,760	43,590	7,167	50,756	952	1,666	594	1,782	2,376	2,746	3,494	5,122	1,544
Week 2	8,536	40,125	48,661	354	400	49,015	5,161	3,261	5,933	38,455	44,389	-2,289	42,100	4,001	1,812	575	1,448	2,023	2,452	3,216	4,475	2,271
Week 3	7,354	45,511	52,865	10,930	622	63,795	3,462	2,059	5,158	34,810	39,968	16,994	56,961	1,551	1,356	634	1,641	2,275	2,501	3,232	4,776	1,931
Week 4	6,566	42,642	49,208	1,657	354	50,865	3,177	1,718	5,586	60,385	65,971	-7,812	58,160	1,675	1,239	600	1,813	2,412	2,123	2,735	4,535	1,777
Week 5							2,638	1,486						1,684	3,541							1,691
Monthly	7,032	42,731	49,763	3,773	515	53,535	3,565	2,105	5,454	44,595	50,049	3,165	53,214	2,073	1,835	599	1,687	2,286	2,566	3,402	4,853	1,971
Min =	3570	28715	37768	-6812	286	35,560	2,111	1,044	2,499	13,335	18,555	-63,337	26,551	711	195	475	958	1,433	732	190	2,750	1,070
Max =	17247	63681	70930	33574	1003	96,227	9,472	6,441	11,376	97,329	102,128	87,601	110,982	12,882	6,365	856	2,547	3,083	3,888	8,380	6,461	4,395
								4,170						7,130								3,000
								6,255						10,696								

Print Date: 4/19/2011

	GC Mercury (Hg)				6th St Mercury (Hg)				Inf. Mercury (Hg)				Eff. Mercury (Hg)			
DATE		mg/L		lbs/day		mg/L		lbs/day	mg/L		lbs/day		mg/L		lbs/day	
27-Feb																
28-Feb																
1-Mar																
2-Mar		0.00020		0.00595		0.00080		0.08073	0.00040		0.05228	<	0.00007	<	0.01051	
3-Mar																
4-Mar																
5-Mar																
6-Mar																
7-Mar																
8-Mar	<	0.00007	<	0.00260		0.00030		0.03590	0.00010		0.01568	<	0.00007	<	0.01419	
9-Mar		0.00007		0.00255		0.00007		0.00822	0.00020		0.03076	<	0.00007	<	0.01344	
10-Mar																
11-Mar																
12-Mar																
13-Mar																
14-Mar																
15-Mar	<	0.00007	<	0.00281	<	0.00007	<	0.00841	0.00010		0.01603	<	0.00007	<	0.01390	
16-Mar																
17-Mar																
18-Mar																
19-Mar																
20-Mar																
21-Mar																
22-Mar		0.00530		0.17327	<	0.00007	<	0.00713	0.00010		0.01345	<	0.00007	<	0.01137	
23-Mar																
24-Mar																
25-Mar																
26-Mar																
27-Mar																
28-Mar																
29-Mar	<	0.00007	<	0.00214		0.00007		0.00688	0.00110		0.14174	<	0.00007	<	0.01041	
30-Mar																
31-Mar																
1-Apr																
2-Apr																
Total		0.00578		0.18932		0.00138		0.14727	0.00200		0.26993		0.00042		0.07381	
Week 1		0.00020		0.00595		0.00080		0.08073	0.00040		0.05228	<	0.00007	<	0.01051	
Week 2	<	0.00007	<	0.00257		0.00019		0.02206	0.00015		0.02322	<	0.00007	<	0.01381	
Week 3	<	0.00007	<	0.00281	<	0.00007	<	0.00841	0.00010		0.01603	<	0.00007	<	0.01390	
Week 4		0.00530		0.17327	<	0.00007	<	0.00713	0.00010		0.01345	<	0.00007	<	0.01137	
Week 5	<	0.00007	<	0.00214		0.00007		0.00688	0.00110		0.14174	<	0.00007	<	0.01041	
Monthly	<	0.00096	<	0.03155	<	0.00023	<	0.02455	0.00033		0.04499	<	0.00007	<	0.01230	
Min =	<	0.00007	<	0.00214	<	0.00007	<	0.00688	0.00010		0.01345	<	0.00007	<	0.01041	
Max =		0.00530		0.17327		0.00080		0.08073	0.00110		0.14174	<	0.00007	<	0.01419	
													0.00023		0.055	
													0.00046			

	March 2011				City of Reading Wastewater Treatment Plant																	Laboratory Process Control Data								
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent						
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L
27-Feb																																	
28-Feb																																	
1-Mar	188	183	7.6	18.5	450	280	7.2	15.3	388	257	16.1	-26	99	26.0	362	356	42.1	7.2	18.6	13.0	16.05	242	84	23.5	1.1	7.1	62	35	19.7		3.5	7.2	30
2-Mar	150	122	7.5	21.7	330	326	7.3	18.2	289	280	19.0	81	137	25.9	370	417	44.9	7.5	12.0	14.6	15.67	255	103	24.5	5.8	6.9	60	47	22.7	300	3.4	7.1	32
3-Mar	135	104	7.6	20.9	370	348	7.1	18.8	317	293	19.3	53	99	22.4	370	392	41.7	6.8	11.3	12.9	15.28	242	88	25.8	1.8	6.8	69	43	22.6		4.4	6.8	33
4-Mar	205	152	7.5	24.3	480	342	7.1	18.0	424	303	19.3	-54	74	17.7	370	377	37.0	7.2	11.8	13.3	15.20	248	69	26.1	0.6	6.8	61	30	23.7	280	4.1	7.2	30
5-Mar	265	194	7.8	19.6	420	220	7.4	16.8	396	216	17.2	4	131	18.9	400	347	36.1	6.9	11.7	13.7	21.46	238	74	21.6	0.2	6.8	64	44	19.2		4.5	7.0	36
6-Mar	ns	ns	7.6	ns	260	328	7.3	9.6	220	261	9.7	102	7	3.5	322	268	13.2	6.9	12.1	14.7	25.38	125	51	14.5	0.2	6.7	42	21	15.6		3.3	6.7	30
7-Mar	140	146	7.4	12.1	278	406	7.4	9.8	244	343	10.4	-26	-149	16.6	218	194	27.0	7.0	10.3	12.4	22.60	150	84	15.2	8.9	7.3	44	31	13.8	180	6.8	6.9	27
8-Mar	195	144	7.5	15.5	372	228	7.5	12.8	330	208	13.4	-10	119	18.6	320	327	32.0	7.7	12.3	13.7	18.80	202	95	19.1	10.2	7.3	51	42	16.8	240	5.1	7.1	30
9-Mar	175	128	7.5	16.5	320	286	7.3	12.8	286	249	13.7	6	51	21.2	292	300	34.9	6.7	11.3	13.3	18.44	170	65	19.9	7.6	6.7	42	27	17.9	260	4.9	6.7	29
10-Mar	188	124	7.1	7.5	100	174	7.0	5.8	121	162	6.2	9	-6	4.6	130	156	10.8	6.8	9.6	12.5	45.43	125	67	11.0	6.6	6.6	44	45	11.6	260	3.8	6.6	25
11-Mar	140	76	7.3	8.9	205	430	7.2	6.6	191	353	7.1	-21	-219	9.0	170	134	16.1	7.0	8.9	12.9	34.71	130	56	9.5	7.7	6.7	48	36	9.3		3.2	6.7	32
12-Mar	130	110	7.1	10.8	305	164	6.7	8.4	256	149	9.1	-31	19	8.3	225	168	17.4	7.1	10.3	12.6	18.95	145	52	11.7	10.6	6.5	42	37	11.6	140	11.9	6.8	25
13-Mar	195	114	7.2	11.9	298	88	7.1	9.8	274	94	10.3	54	52	9.4	328	146	19.7	7.1	11.5	13.3	23.66	165	46	13.3	8.4	6.9	59	38	13.3		12.3	6.6	34
14-Mar	135	132	7.2	14.5	368	244	7.3	12.7	309	216	13.2	1	61	21.7	310	277	34.9	6.8	11.1	13.4	19.06	192	79	17.6	6.8	6.5	56	51	15.9	260	4.1	6.7	27
15-Mar	195	126	7.4	21.3	355	212	7.2	13.1	315	190	15.2	45	52	22.0	360	242	37.2	6.9	11.0	14.4	19.22	210	70	19.6	6.9	6.7	67	53	17.7		4.1	6.7	36
16-Mar	160	124	7.4	15.3	360	412	9.4	13.4	310	340	13.9	10	-10	23.5	320	330	37.4	7.4	9.0	13.8	19.75	195	51	17.6	4.5	6.9	46	31	16.4	220	2.9	6.7	37
17-Mar	195	148	7.4	14.7	370	284	7.2	13.5	326	250	13.8	29	112	17.9	355	362	31.7	7.1	11.1	13.9	18.01	232	93	20.1	0.3	6.9	69	45	18.6		3.3	6.6	36
18-Mar	208	182	7.4	15.9	440	136	7.0	12.9	391	146	13.5	209	546	16.5	600	692	30.0	6.5	13.6	14.1	19.23	238	58	20.9	8.0	6.6	68	56	18.7	240	2.0	6.8	19
19-Mar	308	216	7.0	17.0	375	196	7.3	15.6	358	201	16.0	132	89	9.7	490	290	25.7	7.0	14.2	14.8	16.16	245	76	19.8	0.2	6.9	64	68	16.8		3.6	6.9	32
20-Mar	100	70	7.1	16.8	460	210	7.1	16.2	372	176	16.3	28	164	8.9	400	340	25.2	7.0	14.2	14.7	17.45	265	88	18.5	0.1	6.8	68	52	16.1		4.0	6.9	31
21-Mar	235	118	6.8	18.6	410	672	6.6	15.7	367	536	16.4	53	-188	14.6	420	348	31.0	6.8	12.6	13.6	17.80	210	55	21.9	7.6	6.6	64	39	20.0	260	2.3	6.6	24
22-Mar	195	202	7.3	19.1	380	276	7.0	16.1	335	258	16.8	25	126	14.6	360	384	31.4	6.8	17.0	14.3	16.13	220	73	21.1	0.2	6.5	69	63	19.1		4.0	6.8	34
23-Mar	155	124	6.9	15.0	422	706	6.9	14.0	355	560	14.3	-23	-313	12.6	332	247	26.9	6.7	15.0	14.2	18.36	208	63	19.7	6.4	6.5	63	51	18.4	300	3.3	6.7	28
24-Mar	225	184	7.0	17.8	430	814	7.0	17.9	379	656	17.9	-29	-266	13.6	350	390	31.5	6.9	17.7	14.0	16.86	215	81	21.1	3.9	6.4	52	45	19.0		2.9	6.5	32
25-Mar	180	176	7.5	16.5	410	736	7.3	18.0	357	606	17.7	83	-186	12.7	440	420	30.4	7.2	16.0	14.4	16.88	232	71	20.4	5.1	6.7	62	52	17.6	320	3.8	6.9	36
26-Mar	180	162	7.7	18.4	372	494	7.3	19.0	325	413	18.9	20	354	12.5	345	767	31.4	6.7	13.6	11.5	15.59	200	65	21.1	1.1	6.7	55	38	19.0		3.9	6.9	33
27-Mar	225	158	7.3	19.4	440	526	7.4	19.2	385	432	19.3	25	-22	13.3	410	410	32.6	7.4	11.7	15.1	15.56	195	52	20.6	1.1	6.9	58	46	19.5		4.1	7.2	26
28-Mar	208	160	7.4	18.9	450	516	7.2	19.9	390	427	19.7	-15	-27	30.6	375	400	50.3	7.5	13.8	14.8	15.21	218	90	27.3	0.2	6.9	62	46	17.9	300	3.7	7.6	30
29-Mar	160	148	7.6	18.9	440	506	7.1	18.8	374	421	18.8	66	167	25.1	440	588	43.9	7.4	15.3	14.8	15.45	240	69	25.1	5.8	6.8	60	57	20.9		3.9	7.5	24
30-Mar	305	232	7.5	18.8	380	330	7.2	18.5	362	307	18.6	-32	289	30.3	330	596	48.9	7.5	13.8	14.9	15.28	ns	ns	ns	0.2	6.7	61	49	22.5	280	3.3	7.2	27
31-Mar	205	226	7.6	20.1	390	924	7.0	18.3	347	761	18.7	-19	-443	28.1	328	318	46.8	7.3	12.0	15.1	15.87	210	78	28.2	ns	ns	98	91	25.1		2.9	7.2	30
1-Apr																																	
2-Apr																																	
TOTAL	5680	4485	227.7	505.2	11440	11814	224	455.5	10091	10062	469.4	751	921	530.7	10842	10983	1000.1	218.9	394.2	428.7	599.50	6162	2146	596.3	127.9	203.1	1830	1409	557.0	3840.0	133.3	213.9	935
Week 1	181	150	7.6	19.5	370	321	7	15.2	325	279	15.8	19	57	18.7	345	336	34.6	7.1	12.5	13.5	18.81	214	79	21.6	2.7	6.9	57	36	19.6	253.3	4.3	7.0	31
Week 2	165	118	7.3	12.2	281	231	7	9.8	252	204	10.4	1	11	13.3	254	215	23.7	7.0	10.7	13.1	25.58	161	66	14.6	8.3	6.7	49	39	13.8	232.0	6.5	6.7	29
Week 3	200	141	7.2	17.1	396	303	7	14.3	348	263	15.0	72	109	16.2	421	372	31.2	7.0	12.2	14.2	18.23	228	70	19.8	3.9	6.8	64	49	17.8	240.0	3.2	6.7	31
Week 4	195	167	7.3	17.9	415	581	7	17.7	361	479	17.8	12	-48	15.7	373	431	33.5	7.0	15.0	14.0	16.37	213	71	21.6	2.6	6.7	60	49	18.6	306.7	3.7	7.0	31
Week 5																																	
Monthly	189	150	7.3	16.8	369	381	7	14.7	326	325	15.1	24	30	17.1	350	354	32.3	7.1	12.7	13.8	19.34	205	72	19.9	4.3	6.8	59	45	18.0	256.0	4.3	6.9	30
Min =	100	70	6.8	8	100	88	7	6	121	94	6.2	-54	-443	3.5	130	134	10.8	6.5	8.9	11.5	15.20	125	46	9.5	0.1	6.4	42	21	9.3	140.0	2.0	6.5	19
Max =	308	232	7.8	24	480	924	9	20	424	761	19.7	209	546	30.6	600	767	50.3	7.7	18.6	15.1	45.43	265	103	28.2	10.6	7.3	98	91	25.1	320.0	12.3	7.6	37
									%Removal						%Removal																		
									94.06	96.79	26.91				94.48	97.06	65.69																

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Tertiary Settling						Final Settling									Filtrate		
TSS	NH3-N	Alkalinity	chloride	DO	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	DO	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
15	17.0		185	9.1	7.2	29	15	6	12.0		3.7	0.390	8.3	7.3		237	1070.0
21	20.6	280	175	7.7	7.2	33	19	13	15.6	260			8.6	7.3		246	694.0
18	15.9		165	9.1	7.4	26	16	12	15.3				8.7	6.8	83	518	139.0
17	21.7	260	170	8.1	7.2	32	15	9	17.1	240			8.4	7.3		396	638.0
15	17.9		155	10.3	7.0	ns	ns	ns	ns				8.7	7.2		57	734.0
20	15.8		150	5.4	7.0	38	26	18	13.3				9.1	6.8	72	49	924.0
18	11.1	180	185	10.2	6.5	32	14	14	7.0	160	3.2	0.382	8.9	6.9		545	637.0
19	14.1	240	170	8.6	7.2	28	15	17	10.6	200	4.3	0.334	8.5	7.0		216	699.0
28	15.6	220	165	8.3	7.0	27	15	15	11.1	200	4.3	0.359	8.5	6.9		205	671.0
23	9.7	200	150	8.2	7.1	ns	ns	ns	ns	220	3.8	0.384	8.6	6.5	100	340	525.0
24	8.0		155	7.7	6.7	40	25	51	7.7	ns	ns	ns	ns	ns		404	832.0
20	10.0	180	145	8.2	6.9	18	15	11	7.0				9.0	6.7		468	155.0
19	10.9		140	9.3	7.0	15	10	5	7.0				9.3	6.9	47	366	29.6
19	13.5	220	135	8.4	7.0	22	14	11	8.6	200	5.5	0.420	8.8	6.7		194	760.0
21	15.4		145	8.1	6.9	27	24	9	11.3				8.8	6.6		322	645.0
35	16.0	280	150	7.6	6.9	36	23	10	11.9	200			7.9	7.0		258	720.0
35	14.9		145	6.8	6.9	29	31	13	9.1				8.0	8.0	82	386	148.0
9	17.6	140	150	6.2	6.8	24	14	9	12.4	220			7.4	7.0		60	896.0
21	15.2		145	6.5	7.3	ns	ns	ns	ns				7.3	7.0		72	975.0
27	12.9		125	7.0	7.3	27	16	19	9.3				8.0	7.0	157	82	931.0
10	16.9	220	150	7.8	7.1	32	12	12	12.7	180	2.6	0.388	7.8	6.6		238	781.0
25	16.3		145	7.0	6.8	28	15	10	11.7				7.0	7.0		64	893.0
16	16.1	280	150	6.3	7.0	35	10	8	11.1	240			7.4	6.9		126	426.0
30	16.5		155	6.2	7.0	33	19	21	10.8				7.6	6.6	68	378	931.0
24	16.7	280	155	8.6	7.2	42	16	23	10.0	260			9.2	6.9		228	938.0
16	15.6		135	8.8	7.1	33	15	19	6.9				7.2	7.1		840	290.0
9	15.9		125	8.9	7.4	30	19	12	8.8				7.4	7.4	66	752	207.0
21	18.2	280	140	7.9	7.3	ns	ns	ns	ns	220			7.9	7.7		948	382.0
8	17.2		155	7.3	7.3	24	14	15	9.7				7.8	7.8		286	350.0
23	19.5	260	155	7.9	7.2	40	18	15	12.1	240	2.2	0.816	7.4	7.2		320	1155.0
25	21.0		160	6.9	7.1	40	16	18	15.6				7.7	7.4	153	490	980.0
631	483.7	3520.0	4730	244.1	219.0	820	461	395	295.8	3040.0	29.6	3.473	244.8	211.3	828.0	10091	20155.6
18	17.1	240.0	169	8.5	7.1	32	18	12	13.4	220.0	3.5	0.386	8.7	7.1	77.5	293	690.9
22	11.7	212.0	151	8.4	7.0	25	16	18	8.7	205.0	4.5	0.374	8.8	6.8	73.5	313	524.5
23	15.6	213.3	144	7.1	7.0	29	20	12	11.1	200.0	2.6	0.388	7.9	7.0	119.5	203	728.0
20	16.5	280.0	144	7.7	7.1	34	16	16	9.9	240.0			7.7	7.1	67.0	477	581.0
20	15.6	234.7	153	7.9	7.1	30	17	15	11.0	217.1	3.7	0.434	8.2	7.0	92.0	326	650.2
8	8.0	140.0	125	5.4	6.5	15	10	5	6.9	160.0	2.2	0.334	7.0	6.5	47.0	49	29.6
35	21.7	280.0	185	10.3	7.4	42	31	51	17.1	260.0	5.5	0.816	9.3	8.0	157.0	948	1155.0

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
						Flow (MGD)												
27-Feb																		
28-Feb																		
1-Mar	12.280	2.257	0.696	3.770	OOS	16.050	19.080	8.920	5.700	0.737	55.576	35.514						
2-Mar	12.100	2.012	0.632	3.570	OOS	15.670	18.000	8.830	5.920	0.538	56.350	37.779						
3-Mar	11.810	2.277	0.719	3.470	OOS	15.280	17.080	8.690	6.040	0.855	56.872	39.529						
4-Mar	12.090	2.051	0.604	3.110	OOS	15.200	17.040	8.940	6.120	0.563	58.816	40.263						
5-Mar	18.180	2.928	0.565	3.280	OOS	21.460	17.690	9.150	6.130	0.453	42.637	28.565						
6-Mar	18.190	3.831	0.901	7.190	OOS	25.380	18.880	4.400	0.680	0.476	17.336	2.679						
7-Mar	17.090	3.253	0.724	5.510	OOS	22.600	22.600	5.800	3.090	0.817	25.664	13.673						
8-Mar	14.350	2.645	0.690	4.450	OOS	18.800	24.300	8.950	6.240	0.901	47.606	33.191						
9-Mar	14.080	2.768	0.716	4.360	OOS	18.440	23.020	8.860	5.430	0.742	48.048	29.447						
10-Mar	34.430	7.549	1.095	11.000	OOS	45.430	25.430	0.260		0.598	0.572		17:15					
11-Mar	27.140	4.392	0.726	7.570	OOS	34.710	24.710	1.240		0.735	3.572			02:15				
12-Mar	13.680	3.183	0.485	5.270	OOS	18.950	18.950	8.270	1.190	0.439	43.641	6.280						
13-Mar	18.170	3.659	0.709	5.490	OOS	23.660	23.660	8.820	5.720	0.769	37.278	24.176						
14-Mar	14.240	3.057	0.736	4.820	OOS	19.060	22.620	8.490	5.890	0.731	44.544	30.902						
15-Mar	14.400	2.960	0.753	4.820	OOS	19.220	23.810	8.770	5.790	0.794	45.630	30.125						
16-Mar	14.830	2.803	0.608	4.920	OOS	19.750	23.550	8.160	5.840	0.493	41.316	29.570						
17-Mar	13.500	2.801	0.817	4.510	OOS	18.010	21.620	8.820	5.450	0.708	48.973	30.261						
18-Mar	15.140	2.574	0.655	4.090	OOS	19.230	20.310	9.110	5.100	0.479	47.374	26.521						
19-Mar	12.060	2.259	0.544	4.100	OOS	16.160	19.030	8.930	6.180	0.411	55.260	38.243						
20-Mar	13.170	2.620	0.721	4.280	OOS	17.450	20.280	8.300	6.000	0.581	47.564	34.384						
21-Mar	13.440	3.433	0.976	4.360	OOS	17.800	21.420	6.950	5.830	0.474	39.045	32.753						
22-Mar	12.210	1.604	0.478	3.920	OOS	16.130	19.470	2.550	5.230	0.674	15.809	32.424						
23-Mar	13.740	2.858	0.614	4.620	OOS	18.360	22.950	8.720	5.320	0.672	47.495	28.976						
24-Mar	12.630	2.601	0.688	4.230	OOS	16.860	20.180	8.730	5.310	0.591	51.779	31.495						
25-Mar	12.960	2.361	0.597	3.920	OOS	16.880	18.890	8.870	5.530	0.264	52.547	32.761						
26-Mar	11.770	2.390	0.583	3.820	OOS	15.590	17.880	8.540	5.070	0.557	54.779	32.521						
27-Mar	11.580	2.435	0.638	3.980	OOS	15.560	19.020	8.590	5.180	0.678	55.206	33.290						
28-Mar	11.410	2.229	0.670	3.800	OOS	15.210	18.300	8.350	5.420	0.805	54.898	35.634						
29-Mar	11.790	2.227	0.692	3.660	OOS	15.450	17.830	8.180	5.500	0.652	52.945	35.599						
30-Mar	11.640	2.044	0.614	3.640	OOS	15.280	18.270	7.490	5.380	0.870	49.018	35.209						
31-Mar	12.170	2.353	0.702	3.700	OOS	15.870	18.730	6.560	5.530	0.786	41.336	34.846						
1-Apr					OOS		19.760											
2-Apr					OOS		18.610											
Total	456.270	88.414	21.348	143.230	0.000	599.500	709.470	235.240	151.810			876.61						
Week 1	14.534	2.658	0.692	4.271	N/A	18.806	19.553	7.819	4.811			28.29						
Week 2	19.441	3.893	0.737	6.137	N/A	25.579	27.527	6.413	4.894			24.80						
Week 3	13.791	2.779	0.725	4.440	N/A	18.231	21.431	8.434	5.741			31.69						
Week 4	12.329	2.354	0.610	4.041	N/A	16.370	19.527	7.764	5.294			32.44						
Week 5																		
Monthly	14.718	2.852	0.689	4.620	N/A	19.339	21.648	7.588	5.235			30.23						
Min =	11.410	1.604	0.478	3.110	0.000	15.200	17.040	0.260	0.680			2.68						
Max =	34.430	7.549	1.095	11.000	0.000	45.430	45.430	9.150	6.240			40.26						

Influent flow used due to inaccuracy of Effluent flow metering over 25 MGD

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	March 2011			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
27-Feb															
28-Feb															
1-Mar															
2-Mar	7.0	639	2880	7.2	761	4840	7.2	745	4380	7.2	623	4340	7.2	568	4760
3-Mar															
4-Mar	7.0		4120	7.2		4940	7.2		4460	7.2		4360	7.2		4700
5-Mar															
6-Mar															
7-Mar	7.0	59	4000	7.1	609	5200	7.2	482	4440	7.0	573	3740	7.1	518	4600
8-Mar															
9-Mar	7.0		3720	7.1		3940	7.1		3620	7.1		4640	7.1		4820
10-Mar															
11-Mar															
12-Mar															
13-Mar															
14-Mar	7.2	120	4560	7.1	377	4620	6.8	889	2120	7.1	573	4820	7.1	1073	4860
15-Mar															
16-Mar	7.2		4000	7.3		4620	7.4		4560	7.1		4720	7.2		4700
17-Mar															
18-Mar	7.1	268	4140	7.1	516	4660	7.3	339	4760	7.1	250	4680	7.1	820	4800
19-Mar															
20-Mar															
21-Mar	6.9	752	2580	7.1	832	4020	7.2	570	4600	7.1	102	4200	7.1	579	5100
22-Mar															
23-Mar	7.0		4140	7.1		4800	7.2		4820	7.1		4900	7.1		4820
24-Mar															
25-Mar	7.1	39	4420	7.1	357	4840	7.2	125	4920	7.1	220	4920	7.1	232	5080
26-Mar															
27-Mar															
28-Mar	7.1	120	4000	7.1	280	4700	7.2	654	4640	7.2	59	5180	7.1	611	5020
29-Mar															
30-Mar	6.9		3000	7.1		4620	7.3		5040	7.2		5040	7.2		4940
31-Mar															
1-Apr															
2-Apr															
Total	84.4	1997	45560	85.4	3732	55800	86.2	3804	52360	85.3	2400	55540	85.4	4401	58200
Week 1	7.0	349	3667	7.2	685	4993	7.2	614	4427	7.1	598	4147	7.1	543	4687
Week 2	7.1	120	4140	7.1	377	4280	7.0	889	2870	7.1	573	4730	7.1	1,073	4840
Week 3	7.1	510	3573	7.1	674	4433	7.3	455	4640	7.1	176	4533	7.1	700	4867
Week 4	7.0	80	4187	7.1	319	4780	7.2	390	4793	7.1	140	5000	7.1	422	4973
Week 5															
Monthly	7.0	285	3797	7.1	533	4650	7.2	543	4363	7.1	343	4628	7.1	629	4850
Min =	6.9	39	2580	7.1	280	3940	6.8	125	2120	7.0	59	3740	7.1	232	4600
Max =	7.2	752	4560	7.3	832	5200	7.4	889	5040	7.2	623	5180	7.2	1073	5100

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Dissolved Oxygen -March 2011

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
3/1/2011	7.8	8.0	8.2	8.2	7.8	8.3	9.1	7.8	
3/2/2011	8.1	8.0	8.1	8.2	8.0	8.1	7.7	7.7	
3/3/2011	8.4	8.6	8.6	8.8	8.8	8.4	9.1	8.4	
3/4/2011	8.6	8.6	8.5	8.4	8.2	8.2	8.1	8.1	
3/5/2011	8.2	8.3	8.2	7.9	7.8	7.6	10.3	7.6	
3/6/2011	7.7	7.7	7.4	7.3	7.4	6.8	5.4	5.4	
3/7/2011	7.0	7.6	8.6	8.8	8.7	8.5	10.2	7.0	
3/8/2011	8.5	8.5	8.4	8.4	8.2	8.2	8.6	8.2	
3/9/2011	8.2	8.3	8.6	8.4	8.3	8.3	8.3	8.2	
3/10/2011	8.4	8.5	8.3	8.0	7.8	6.4	8.2	6.4	
3/11/2011	7.1	8.0	8.5	8.2	8.0	8.1	7.7	7.1	
3/12/2011	8.2	8.4	8.4	8.4	8.2	8.2	8.2	8.2	
3/13/2011	8.3	8.4	8.5	8.7	8.7	8.6	9.3	8.3	
3/14/2011	8.6	8.5	8.6	8.5	8.6	8.4	8.4	8.4	
3/15/2011	8.5	8.5	8.4	8.4	8.2	8.1	8.1	8.1	
3/16/2011	7.9	7.9	7.8	7.9	7.9	7.9	7.6	7.6	
3/17/2011	8.0	7.9	8.0	8.0	7.8	7.6	6.8	6.8	
3/18/2011	7.6	7.6	7.5	7.4	7.2	7.2	6.2	6.2	
3/19/2011	7.3	7.5	7.3	7.5	7.7	7.7	6.5	6.5	
3/20/2011	8.0	7.9	7.9	8.1	8.1	7.9	7.0	7.0	
3/21/2011	8.0	7.8	7.7	7.5	7.5	7.3	7.8	7.3	
3/22/2011	7.6	7.6	7.0	7.5	7.8	7.6	7.0	7.0	
3/23/2011	7.7	7.6	7.7	7.7	8.1	7.8	6.3	6.3	
3/24/2011	7.9	7.9	8.0	7.7	7.9	7.9	6.2	6.2	
3/25/2011	7.9	7.9	8.0	7.9	7.8	7.8	8.6	7.8	
3/26/2011	7.8	8.0	8.0	8.0	7.9	7.9	8.8	7.8	
3/27/2011	8.0	8.0	8.0	8.1	7.9	7.8	8.9	7.8	
3/28/2011	8.0	8.0	8.0	8.1	8.1	7.8	7.9	7.8	
3/29/2011	7.9	7.9	7.9	8.0	7.9	7.5	7.3	7.3	
3/30/2011	7.7	7.6	7.6	7.8	7.6	7.6	7.9	7.6	
3/31/2011	7.6	7.7	7.7	7.5	7.5	7.4	6.9	6.9	
Min	7.00	7.50	7.00	7.30	7.20	6.40	5.4	Min	5.41
Max	8.60	8.60	8.60	8.80	8.80	8.60	10.3	Max	8.40
								Avg	7.38

March 2011
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Mar	0.02	0.01	0.02	0.01	0.00	0.00	0.01	
2-Mar	0.01	0.02	0.16	0.07	0.02	0.00	0.05	
3-Mar	0.02	0.01	0.01	0.01	0.01	0.02	0.01	
4-Mar	0.00	0.02	0.03	0.02	0.02	0.00	0.02	
5-Mar	0.04	0.01	0.02	0.03	0.03	0.00	0.02	
6-Mar	0.02	0.02	0.02	0.02	0.29	0.34	0.12	
7-Mar	0.00	0.00	0.00	0.01	0.00	0.12	0.02	
8-Mar	0.02	0.01	0.03	0.01	0.01	0.03	0.02	
9-Mar	0.01	0.01	0.03	0.02	0.01	0.03	0.02	
10-Mar	0.02	0.03	0.01	0.06	0.12	0.05	0.05	
11-Mar	0.03	0.01	0.01	0.16	0.01	0.01	0.04	
12-Mar	0.03	0.01	0.00	0.00	0.01	0.00	0.01	
13-Mar	0.13	0.13	0.03	0.01	0.01	0.01	0.05	
14-Mar	0.02	0.03	0.01	0.00	0.02	0.03	0.02	
15-Mar	0.04	0.00	0.06	0.05	0.01	0.01	0.03	
16-Mar	0.01	0.02	0.01	0.01	0.01	0.01	0.01	
17-Mar	0.01	0.02	0.02	0.02	0.01	0.20	0.05	
18-Mar	0.01	0.01	0.02	0.03	0.01	0.14	0.04	
19-Mar	0.00	0.00	0.03	0.00	0.03	0.00	0.01	
20-Mar	0.01	0.02	0.03	0.04	0.03	0.00	0.02	
21-Mar	0.00	0.01	0.02	0.00	0.28	0.24	0.09	
22-Mar	0.11	0.01	0.21	0.02	0.00	0.01	0.06	
23-Mar	0.01	0.02	0.02	0.02	0.02	0.02	0.02	
24-Mar	0.03	0.02	0.00	0.01	0.00	0.02	0.01	
25-Mar	0.00	0.01	0.03	0.04	0.01	0.02	0.02	
26-Mar	0.05	0.03	0.01	0.00	0.01	0.00	0.02	
27-Mar	0.00	0.00	0.00	0.00	0.01	0.02	0.01	
28-Mar	0.05	0.01	0.02	0.00	0.00	0.03	0.02	
29-Mar	0.02	0.01	0.02	0.02	0.02	0.00	0.02	
30-Mar	0.01	0.02	0.03	0.01	0.01	0.02	0.02	
31-Mar	0.02	0.02	0.05	0.02	0.02	0.02	0.03	
Average	0.02	0.02	0.03	0.02	0.03	0.05	0.03	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.13	0.13	0.21	0.16	0.29	0.34		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* March 2011

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 19.00	X 0.01	= 0.00
0.00	X 19.00	X 0.01	= 0.00
0.00	X 19.00	X 0.01	= 0.00
1,090.92	X 19.00	X 0.01	= 207.27
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 207.27

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	207.27
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

4/19/2011
Date

City of Reading 3-C Watershed *for the Month* March 2011

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

RECEIVED
EPA REGION III
MAR 28 2011
OFC. OF STATE AND WATERSHED PARTNERSHIPS (3WP10)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	02/01/2011	TO	02/28/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	66	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.9	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	8.1		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1319	1385		******	9	9		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	2079	******		******	13.4	******		0	Daily	COMP24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	18.61	22.14		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.01	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson, P.E. Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		03/24/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

n/a

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	02/01/2011	TO	02/28/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01056	******		******	<0.00007	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	3	******		0	Daily	GRAB
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1995	2149		******	13	14		0	Daily	COMP24
80082 1 1 Effluent Gross	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Ralph E. Johnson, P.E. Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258	03/24/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code / NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

n/a

	February 2011					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
30-Jan	11.6	17	9	6	12.6	15.79									
31-Jan	11.2	16	9	10	11.5	15.29									
1-Feb	12.5	20	11	6	14.9	19.18	8.5	7.5	0.62		1	60	0.96	24	28
2-Feb	13.5	21	16	12	15.5	21.24	7.8	7.7	1.11		2	50	0.04	27	37
3-Feb	10.2	18	10	8	8.8	17.87	8.5	7.3	0.40		18	65	0.00	17	31
4-Feb	10.1	17	10	7	10.8	16.47	8.7	7.6	0.57		1	65	0.03	8	35
5-Feb	12.6	20	13	10	12.0	19.53	8.0	7.6	0.57		1	75	0.19	19	38
6-Feb	12.5	19	12	11	10.1	19.82	7.9	7.3	0.49		4	65	0.00	26	40
7-Feb	14.8	22	13	6	11.9	20.94	8.0	7.4	0.54		4	65	0.20	26	42
8-Feb	12.6	26	12	8	11.7	19.80	7.9	7.4	0.81		3	60	0.00	17	37
9-Feb	10.9	20	10	9	12.4	17.49	8.8	7.5	0.55		4	60	0.00	5	29
10-Feb	11.6	22	13	6	13.5	16.90	8.7	7.6	0.38		3	60	0.00	10	27
11-Feb	9.9	22	15	10	14.6	15.83	8.3	7.5	0.41		6	65	0.00	2	35
12-Feb	13.0	24	13	8	12.5	16.26	8.3	7.3	0.28		10	65	0.00	17	38
13-Feb	11.9	28	14	10	13.5	16.97	8.2	7.7	0.13		104	60	0.00	19	48
14-Feb	13.9	28	15	9	15.6	19.04	7.6	7.6	0.43		5	85	0.00	32	55
15-Feb	12.8	20	12	6	14.1	18.29	7.8	7.6	0.44		27	85	0.00	22	38
16-Feb	13.2	22	14	11	15.2	16.72	8.3	7.4	0.64		4	85	0.00	19	47
17-Feb	13.7	17	11	9	16.3	19.36	7.7	7.4	0.51		3	75	0.00	29	62
18-Feb	14.3	27	13	6	15.8	19.93	7.5	7.5	0.68		1	75	0.00	43	72
19-Feb	16.0	24	13	13	12.5	17.98	7.6	8.1	0.54		1	75	0.00	30	51
20-Feb	13.2	16	11	8	12.4	17.32	8.4	7.8	0.61		1	75	0.11	26	42
21-Feb	12.5	18	11	9	13.6	17.88	8.2	7.4	0.87		1	60	0.20	20	37
22-Feb	11.0	22	13	8	15.3	17.29	8.1	7.5	0.59		4	60	0.00	17	34
23-Feb	11.4	22	16	10	14.3	17.15	8.1	7.5	0.57		4	75	0.00	12	42
24-Feb	12.5	22	12	7	16.5	20.30	8.3	7.4	0.47		2	65	0.14	19	47
25-Feb	15.3	23	17	11	15.2	20.23	6.9	7.6	1.35		1	50	0.83	34	53
26-Feb	15.9	16	18	4	9.4	18.34	8.2	7.7	0.95		1	60	0.00	30	42
27-Feb	15.0	14	10	5	12.6	20.76	8.1	7.5	0.99		1	60	0.00	35	50
28-Feb	14.9	25	12	11	13.4	22.14	7.7	7.5	0.98		1	50	0.22	37	57
						See DO profile									
TOTAL		595	360	238	374.4	521.04	###	211.0	17.48			1850	2.92		
Week 1	12.3	18	11	8	12.0	19.29	8.20	7.48	0.61		4	64	0.20	21	36
Week 2	12.0	22	13	8	13.4	17.47	8.26	7.51	0.43		19	65	0.00	15	38
Week 3	13.7	24	13	9	14.3	18.21	7.93	7.62	0.61		5	76	0.04	27	50
Week 4	13.7	20	14	8	13.8	19.46	7.91	7.54	0.84		2	60	0.17	26	46
Monthly	12.9	21	13	9	13.4	18.61	8.08	7.54	0.63		3	66	0.10	22	43
Only highlighted weekly averages have been adjusted as stated below.															
Min =	9.9	14	10	4	8.8	15.83	6.9	7.3	0.13		1	50	0.00	2	27
Max =	16.0	28	18	13	16.5	22.14	8.8	8.1	1.35		104	85	0.96	43	72
Weekly averages: 1/30-2/5, 2/6-12, 2/13-19 and 2/20-26. 2/27 and 2/28 are included in March DMR.															
DISCHARGE LIMITATIONS															
Ave Monthly:			25	30	18		Min	6.0			10,000	186			
Ave Weekly			40	45			of	to							
Inst. Max			50	60	24		5.0	9.0				465			

Print Date: 3/22/2011

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TSS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
30-Jan							2,239	1,185						790								
31-Jan							2,040	1,148						1,275								
1-Feb	9,721	45,854	55,575	-4,024		51,551	3,199	1,760	9,282	36,907	46,189	780	46,969	960	360	978	2,170	3148	3,052	4,374	6,200	2,383
2-Feb	7,986	47,326	55,313	-2,145		53,167	3,722	2,836	5,857	77,114	82,970	-34,765	48,205	2,127	1,812	639	1,754	2,393	3,013	4,999	5,405	2,747
3-Feb	6,939	42,559	49,498	430	527	49,927	2,683	1,490	5,711	45,194	50,905	-977	49,927	1,192	2,616	651	1,662	2,313	2,705	5,572	5,018	1,313
4-Feb	8,467	22,668	31,135	931		32,066	2,335	1,374	6,350	22,858	29,208	-4,743	24,465	962	505	849	1,810	2,659	1,581	4,373	4,240	1,483
5-Feb	6,907	31,445	38,351	-2,573		35,778	3,258	2,117	6,238	48,617	54,855	1,514	56,369	1,629	212	655	1,617	2,272	2,445	3,512	4,717	1,955
6-Feb	6,907	37,492	44,399	9,529	331	53,928	3,141	1,984	6,238	45,712	51,950	2,808	54,758	1,818	375	655	1,813	2,468	2,178	3,407	4,646	1,670
7-Feb	7,040	44,052	51,092	-19,587		31,505	3,842	2,270	5,815	80,221	86,036	-54,385	31,651	1,048	4,053	637	1,669	2,306	2,940	3,359	5,246	2,078
8-Feb	6,330	42,340	48,670	-5,184		43,486	4,293	1,982	2,826	30,813	33,639	-11,195	22,445	1,321	5,523	580	1,607	2,187	3,073	2,825	5,260	1,932
9-Feb	4,175	36,029	40,204	696		40,900	2,917	1,459	5,334	22,618	27,952	12,694	40,646	1,313	1,086	622	1,631	2,254	2,878	3,805	5,132	1,809
10-Feb	5,377	47,358	52,735	-5,762	288	46,973	3,101	1,832	4,967	25,258	30,225	9,540	39,765	846	279	604	1,746	2,351	2,222	5,156	4,573	1,903
11-Feb	9,132	48,580	57,713	-1,816		55,896	2,904	1,980	6,721	21,375	28,097	5,198	33,295	1,320	602	592	1,827	2,418	1,239	2,790	3,658	1,928
12-Feb	6,606	33,777	40,383	20,526		60,909	3,255	1,763	5,582	27,772	33,354	17,523	50,877	1,085	561	625	1,858	2,482	1,913	221	4,395	1,695
13-Feb	6,907	38,881	45,788	-10,458	281	35,330	3,963	1,981	6,238	87,390	93,628	-53,388	40,240	1,415	1,299	655	2,000	2,655	1,166	266	3,820	1,911
14-Feb	6,907	38,725	45,631	4,088		49,720	4,446	2,382	6,238	11,250	17,488	23,669	41,157	1,429	654	655	2,185	2,840	3,858	1,760	6,698	2,477
15-Feb	5,591	41,101	46,692	-1,805		44,887	3,051	1,830	5,073	24,460	29,533	12,931	42,464	915	4,100	701	2,155	2,856	3,405	673	6,261	2,151
16-Feb	5,471	38,413	43,884	6,456		50,340	3,068	1,952	5,909	24,624	30,533	22,073	52,606	1,534	6,099	632	1,921	2,553	2,784	6,099	5,336	2,120
17-Feb	6,270	34,513	40,783	8,960	350	49,743	2,745	1,776	5,016	10,877	15,893	27,397	43,290	1,453	4,733	588	1,747	2,335	3,890	4,733	6,225	2,632
18-Feb	8,260	37,779	46,038	3,376		49,414	4,488	2,161	8,030	42,567	50,598	28,047	78,645	997	970	577	1,649	2,226	3,397	4,266	5,623	2,626
19-Feb	5,299	36,237	41,537	877		42,413	3,599	1,949	10,451	54,585	65,037	-26,865	38,172	1,949	274	651	1,780	2,430	1,799	4,396	4,229	1,874
20-Feb	4,028	51,304	55,332	-3,217	465	52,115	2,311	1,589	2,992	27,134	30,126	14,136	44,262	1,156	622	665	2,235	2,899	1,870	5,551	4,769	1,791
21-Feb	6,025	51,551	57,576	-8,263		49,313	2,684	1,640	5,681	23,653	29,333	11,155	40,488	1,342	1,033	648	1,900	2,549	3,525	3,943	6,073	2,028
22-Feb	6,804	43,214	50,018	-9,998		40,020	3,172	1,875	5,554	39,596	45,150	-20,009	25,141	1,154	1,146	630	1,819	2,449	2,874	5,243	5,323	2,206
23-Feb	7,305	50,394	57,698	9,135		66,833	3,147	2,288	5,908	30,818	36,726	20,206	56,932	1,430	1,634	596	1,832	2,428	3,426	6,556	5,854	2,045
24-Feb	7,954	55,965	63,919	4,062	840	67,981	3,725	2,032	7,611	203,105	210,716	-145,100	65,616	1,185	1,280	621	2,297	2,918	2,432	4,485	5,350	2,793
25-Feb	6,845	43,806	50,651	302		50,953	3,881	2,868	6,180	47,435	53,615	-3,674	49,941	1,856	880	708	1,840	2,548	1,602	2,138	4,150	2,565
26-Feb	5,509	37,020	42,529	-2,738		39,792	2,447	2,753	4,836	32,337	37,173	3,756	40,929	612	776	658	1,907	2,565	1,926	341	4,491	1,436
27-Feb	11,734	49,950	61,684	-14,503	433	47,182	2,424	1,731	10,125	31,707	41,832	15,013	56,845	866	2,732	671	1,835	2,506	2,099	396	4,604	2,182
28-Feb	6,893	47,899	54,792	-5,675		49,117	4,616	2,216	7,909	24,647	32,556	8,324	40,880	2,031	352	591	1,639	2,231	2,346	6,723	4,576	2,474
	No samples - Mthly Avg used																					
TOTAL	193,388	1,176,231	1,369,619	-28,379	3,513	1,341,239	92,416	55,871	174,674	1,200,642	1,375,317	-118,337	1,256,979	36,944	46,571	18,334	51,903	70,237	71,638	101,961	141,875	58,207
Week 1	7,709	38,771	46,480	-2,491	429	43,989	2,782	1,701	6,499	50,946	57,445	-12,824	44,621	1,276	1,419	723	1,785	2,508	2,559	4,228	5,068	1,947
Week 2	6,490	40,813	47,303	299	284	47,602	3,350	1,896	5,415	32,354	37,769	577	38,346	1,250	1,429	619	1,836	2,455	2,336	2,403	4,791	1,951
Week 3	5,849	41,557	47,406	912	407	48,318	3,623	2,005	6,165	29,700	35,865	12,696	48,561	1,385	2,547	637	1,912	2,550	2,953	4,237	5,502	2,175
Week 4	7,578	46,892	54,470	-2,773	636	51,697	3,052	2,149	6,875	58,521	65,395	-17,355	48,041	1,248	1,257	639	1,881	2,521	2,386	3,697	4,907	2,243
Monthly	6,907	42,008	48,915	-1,014	439	47,901	3,301	1,995	6,238	42,880	49,118	-4,226	44,892	1,319	1,663	655	1,854	2,508	2,558	3,641	5,067	2,079
Min =	4028	22668	31135	-19587	281	31,505	2,311	1,374	2,826	10,877	15,893	-145,100	22,445	612	212	577	1,607	2,187	1,166	221	3,658	1,313
Max =	11734	55965	63919	20526	840	67,981	4,616	2,868	10,451	203,105	210,716	28,047	78,645	2,127	6,099	978	2,297	3,148	3,890	6,723	6,698	2,793
								4,170						7,130								3,000
								6,255						10,696								

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	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
30-Jan								
31-Jan								
1-Feb	0.00040	0.01254	0.00020	0.02237	0.00020	0.02864	< 0.00007	< 0.01120
2-Feb								
3-Feb								
4-Feb								
5-Feb								
6-Feb								
7-Feb								
8-Feb	0.00008	0.00236	< 0.00007	< 0.00776	0.00010	0.01403	< 0.00007	< 0.01156
9-Feb	0.00009	0.00242	0.00030	0.03002	0.00020	0.02540	< 0.00007	< 0.01021
10-Feb								
11-Feb								
12-Feb								
13-Feb								
14-Feb								
15-Feb								
16-Feb	0.00010	0.00274	0.00007	0.00689	0.00020	0.02517	< 0.00007	< 0.00976
17-Feb								
18-Feb								
19-Feb								
20-Feb								
21-Feb								
22-Feb	0.00007	0.00194	0.00020	0.02010	< 0.00007	< 0.00898	< 0.00007	< 0.01009
23-Feb								
24-Feb								
25-Feb								
26-Feb								
27-Feb								
28-Feb								
Total	0.00074	0.02200	0.00084	0.08714	0.00077	0.10222	0.00035	0.05282
Week 1	0.00040	0.01254	0.00020	0.02237	0.00020	0.02864	< 0.00007	< 0.01120
Week 2	0.00009	0.00239	< 0.00019	< 0.01889	0.00015	0.01972	< 0.00007	< 0.01088
Week 3	0.00010	0.00274	0.00007	0.00689	0.00020	0.02517	< 0.00007	< 0.00976
Week 4	0.00007	0.00194	0.00020	0.02010	< 0.00007	< 0.00898	< 0.00007	< 0.01009
Monthly	0.00015	0.00440	< 0.00017	< 0.01743	< 0.00015	< 0.02044	< 0.00007	< 0.01056
Min =	< 0.00007	< 0.00194	< 0.00007	< 0.00689	< 0.00007	< 0.00898	< 0.00007	< 0.00976
Max =	0.00040	0.01254	0.00030	0.03002	0.00020	0.02864	< 0.00007	< 0.01156
							0.00023	0.055
							0.00046	

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February 2011	City of Reading Wastewater Treatment Plant																								Laboratory Process Control Data							
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent							
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	DO	Temp	FLOW	BOD	TSS	NH3-N	DO	pH	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L		MGD	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
30-Jan																																		
31-Jan																																		
1-Feb	310	296	7.6	31.2	410	330	7.2	19.4	388	323	22.0	-28	5	21.3	360	328	43.3	7.2	6.8	14.9	17.17	272	67	29.6	0.1	6.7	54	24	25.2		5.3	6.7	34	20
2-Feb	210	154	7.4	16.8	340	554	7.6	12.6	312	468	13.5	-12	-196	17.0	300	272	30.5	7.0	7.6	10.8	21.25	180	93	18.3	2.3	6.6	43	34	16.2	280	3.0	7.1	32	25
3-Feb	260	214	7.6	24.4	420	446	7.5	16.4	387	398	18.1	3	-8	21.1	390	390	39.2	7.1	20.0	12.6	15.35	245	81	25.5	3.5	6.8	48	33	19.7		7.0	7.1	25	17
4-Feb	360	270	7.6	36.1	238	240	7.4	19.0	262	246	22.4	8	-40	13.3	270	206	35.7	6.9	19.9	13.0	14.24	255	76	25.1	13.3	6.7	42	17	19.3	300	6.2	7.1	28	17
5-Feb	ns	ns	7.0	ns	282	436	6.8	14.5	263	376	15.6	-18	10	16.7	245	386	32.3	6.4	20.1	13.5	17.51	215	75	22.2	0.1	6.4	44	27	18.5		3.1	6.6	34	18
6-Feb	ns	ns	ns	ns	333	406	6.7	16.1	321	376	17.8	69	20	15.8	390	396	33.6	6.8	21.3	12.8	16.58	190	67	20.4	0.5	6.6	54	47	18.9		5.5	6.8	22	13
7-Feb	230	190	7.6	20.8	380	692	7.2	14.4	349	587	15.7	-134	-371	20.1	215	216	35.8	7.1	18.2	12.2	17.57	212	74	21.4	4.8	6.8	40	17	19.9	280	4.8	7.5	26	11
8-Feb	215	96	7.8	19.7	382	278	7.3	14.5	347	240	15.6	-37	-80	21.9	310	160	37.5	6.9	20.8	12.6	16.82	235	95	21.6	11.0	6.7	56	39	19.0		3.4	6.6	33	15
9-Feb	155	198	7.7	23.1	360	226	7.6	16.3	317	220	17.7	5	100	22.7	322	320	40.4	7.3	16.1	13.0	15.23	215	73	25.6	0.5	6.9	68	51	21.7	260	5.9	7.2	26	14
10-Feb	210	194	7.5	23.6	480	256	7.2	17.7	424	243	18.9	-46	77	17.9	378	320	36.8	7.1	13.8	12.5	14.90	282	84	25.7	0.2	6.7	55	32	21.6		6.2	7.1	32	16
11-Feb	375	276	7.7	24.3	500	220	7.1	18.8	475	231	19.9	-15	43	10.2	460	274	30.1	6.8	13.1	13.4	14.57	285	78	25.1	4.8	6.5	64	36	23.3	320	11.1	6.9	36	23
12-Feb	258	218	7.3	24.4	360	296	6.9	19.8	338	279	20.8	172	147	16.0	510	426	36.8	6.9	11.6	13.3	14.32	245	70	24.5	0.2	6.5	68	34	22.1		4.4	6.9	38	19
13-Feb	ns	ns	7.0	ns	420	944	7.8	21.6	382	782	22.2	-87	-446	9.7	295	336	31.9	8.9	18.5	14.7	14.36	248	48	24.6	0.8	6.6	66	40	22.2		5.3	7.0	31	15
14-Feb	ns	ns	ns	ns	358	104	7.7	20.2	330	127	20.6	30	171	27.9	360	298	48.5	7.2	13.7	13.4	16.56	302	106	24.9	0.3	6.7	80	61	23.0	300	4.2	7.1	31	17
15-Feb	205	186	7.7	25.7	410	244	7.1	21.5	366	232	22.4	-14	101	26.7	352	333	49.1	7.1	10.6	13.9	15.29	250	80	26.1	0.2	6.4	60	39	24.3		4.2	6.8	17	17
16-Feb	200	216	8.0	23.1	390	250	7.3	19.5	349	243	20.3	51	175	22.1	400	418	42.4	7.3	12.1	14.0	15.09	245	107	26.8	0.2	6.6	68	46	26.2	320	2.3	7.0	36	25
17-Feb	210	168	7.8	19.7	330	104	7.5	16.7	303	118	17.4	67	204	28.9	370	322	46.3	7.2	12.1	13.7	16.12	238	59	25.5	0.3	6.8	69	44	24.3		2.8	7.1	29	11
18-Feb	252	245	7.6	17.6	355	400	7.6	15.5	331	364	16.0	24	201	24.4	355	565	40.4	7.4	9.3	14.5	16.69	215	101	26.9	0.2	6.8	56	31	22.6	320	2.5	7.1	30	13
19-Feb	180	355	7.6	22.1	395	595	7.6	19.4	343	537	20.1	7	-222	14.8	350	315	34.9	7.2	17.5	16.3	14.53	202	68	26.2	1.2	7.0	50	31	20.0		5.2	7.4	28	17
20-Feb	140	104	7.7	23.1	450	238	7.5	19.6	388	211	20.3	-23	99	13.1	365	310	33.4	7.3	13.6	8.0	17.12	198	55	26.4	4.7	7.2	60	45	21.8		7.5	7.4	22	13
21-Feb	210	198	7.1	22.6	510	234	7.0	18.8	444	226	19.6	-64	86	27.2	380	312	46.8	7.2	11.1	13.1	15.56	270	87	25.7	0.7	6.6	72	39	22.3	300	5.6	6.9	24	19
22-Feb	245	200	7.5	22.7	430	394	8.1	18.1	390	352	19.1	-78	-156	22.4	312	196	41.5	7.1	12.2	13.5	15.38	282	76	26.5	5.0	6.5	66	25	21.6		3.4	7.2	39	15
23-Feb	272	220	7.8	22.2	520	318	7.3	18.9	466	297	19.6	74	163	27.7	540	460	47.3	6.8	12.6	13.6	14.84	285	73	27.9	0.7	6.5	60	52	22.9	320	4.0	6.6	38	17
24-Feb	255	244	7.4	19.9	480	1742	7.1	19.7	433	1426	19.7	27	-982	16.5	460	444	36.2	7.1	11.8	14.3	17.72	280	70	24.3	0.3	6.6	73	54	22.3		3.8	7.1	34	11
25-Feb	175	158	7.5	18.1	338	366	7.3	14.2	300	318	15.1	2	-22	9.5	302	296	24.6	6.9	8.5	12.6	20.23	210	84	17.3	0.7	6.7	58	40	15.6	420	2.9	6.8	36	25
26-Feb	180	158	7.0	21.5	332	290	7.2	17.1	299	262	18.0	-19	26	13.6	280	288	31.6	7.2	11.9	12.2	17.04	190	73	21.4	6.8	6.5	48	22	18.4		4.5	6.6	24	10
27-Feb	350	302	7.0	20.0	460	292	7.4	16.9	434	294	17.6	-102	106	14.8	332	400	32.4	6.9	13.1	12.6	17.04	238	83	22.7	6.0	6.4	51	28	20.1		4.5	6.8	20	7
28-Feb	190	218	7.2	16.3	412	212	7.4	14.1	359	213	14.6	-37	55	15.4	322	268	30.0	6.7	9.5	13.4	18.29	228	89	18.8	2.4	6.7	70	49	17.3	260	3.1	6.3	28	17
TOTAL	5647	5078	194.8	539.0	11075	11107	205.2	491.3	10099	9986	520.6	-174	-731	528.7	9925	9255	1049.3	###	###	368.4	457.37	6712	2192	677.0	71.6	###	1643	1037	590.3	3680.0	131.5	194.6	833	457
Week 1	274	225	7.5	25.9	343	443	7.2	16.1	326	396	17.9	-16	-83	17.9	310	313	35.8	6.9	16.2	12.8	17.10	224	76	23.2	3.5	6.6	46	28	19.7	286.7	5.0	7.0	29	17
Week 2	243	196	7.5	23.0	409	332	7.4	18.4	373	303	19.4	3	2	18.0	376	305	37.4	7.3	15.4	13.3	15.25	259	79	24.6	2.5	6.7	65	42	21.8	293.3	5.8	7.0	32	17
Week 3	200	210	7.6	22.0	406	295	7.4	18.7	360	276	19.4	7	92	22.5	367	368	41.9	7.2	12.3	13.4	15.77	231	80	26.2	1.1	6.8	62	39	23.1	313.3	4.3	7.1	27	16
Week 4	238	214	7.4	20.1	425	516	7.4	17.0	383	452	17.7	-19	-116	17.1	364	336	34.8	7.0	11.4	13.2	17.22	245	78	22.7	3.1	6.6	61	39	19.7	333.3	3.7	6.8	31	15
Monthly	235	212	7.5	22.5	396	397	7.3	17.5	361	357	18.6	-6	-26	18.9	354	331	37.5	7.1	13.8	13.2	16.33	240	78	24.2	2.6	6.7	59	37	21.1	306.7	4.7	7.0	30	16
Min =	140	96	7.0	16	238	104	6.7	13	262	118	13.5	-134	-982	9.5	215	160	24.6	6.4	6.8	8.0	14.24	180	48	17.3	0.1	6.4	40	17	15.6	260.0	2.3	6.3	17	7
Max =	375	355	8.0	36	520	1742	8.1	22	475	1426	22.4	172	204	28.9	540	565	49.1	8.9	21.3	16.3	21.25	302	107	29.6	13.3	7.2	80	61	26.2	420.0	11.1	7.5	39	25
									%Removal						%Removal																			
									94.11	97.62	28.09				94.01	97.43	64.32																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	chloride	DO	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	DO	pH	BOD	TSS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
21.5		230	8.7	7.3	24	15	7	15.5				8.7	6.8		66	802.0
15.2	340	640	7.3	7.2	30	19	12	15.8	280			7.6	7.4		310	855.0
14.4		575	9.3	7.2	25	12	13	10.2				9.4	6.5	93.0	462	984.0
16.5	320	285	9.8	7.3	22	10	3	10.0	280			9.4	7.0		126	1090.0
16.4		315	7.8	6.9	30	15	12	11.4				7.0	7.0		54	894.0
16.2		390	7.3	7.0	18	12	6	10.3				6.7	6.7	67.0	76	690.0
17.8	220	285	8.7	7.2	32	14	5	12.3	200	5.8	0.417	8.7	7.5		654	542.0
16.5		315	6.6	7.1	30	15	12	12.2				8.0	7.0		876	448.0
17.8	220	255	7.3	7.3	26	14	12	13.0	220			9.1	7.3		192	673.0
19.2		215	9.0	7.3	29	17	14	13.8				9.0	7.2	62.0	60	1110.0
20.9	300	215	8.5	7.0	30	17	10	15.5	240			10.0	6.9		244	1130.0
19.0		170	7.5	7.3	32	17	6	14.3				8.4	6.9		198	78.1
19.2		150	8.0	7.3	26	15	7	13.6				8.6	7.0	51.0	236	48.3
22.4	300	175	6.6	7.3	30	19	15	17.2	240	4.0	0.444	8.1	7.3		162	436.0
19.9		215	8.3	7.1	37	17	11	15.4				8.0	7.1		652	107.0
18.9	300	185	7.8	7.1	34	16	13	14.6	200			8.8	6.9		995	995.0
21.5		180	6.5	7.3	28	15	12	17.5				8.2	7.3	58.0	785	785.0
20.9	280	200	6.1	7.2	43	14	9	16.4	260			7.6	7.4		208	915.0
17.8		175	8.8	7.6	30	12	14	12.3				6.2	7.8		76	1220.0
19.3		175	12.1	7.5	26	14	11	13.1				8.5	7.5	100.0	134	1195.0
18.2	280	145	6.8	7.1	26	13	11	14.1	240			11.0	7.1		169	645.0
20.4		205	7.8	7.2	36	21	12	15.6		5.0	0.403	8.8	7.2		188	860.0
19.9	280	230	8.0	7.1	40	20	10	15.3	240			8.4	6.8		225	902.5
20.3		190	8.1	7.2	79	19	8	16.0				8.8	7.2	147.0	224	785.0
15.2	300	275	7.0	7.2	30	18	15	15.0	380			7.7	7.0		353	857.5
15.4		200	8.5	6.9	25	30	5	10.6				8.8	6.6		290	127.3
17.6		170	7.0	7.0	30	14	9	12.8				8.4	6.9	65.0	410	59.5
16.2	280	175	8.3	7.2	30	13	11	13.1	220	3.7	0.390	8.2	6.2		60	1145.0
514.5	3420.0	6935.0	223.4	201.2	878	447	285	386.9	3000.0	18.5	1.654	236.0	197.3	643.0	8485	20379.2
16.9	293.3	388.6	8.4	7.2	26	14	8	12.2	253.3	5.8	0.417	8.2	7.0	80.0	250	836.7
19.3	273.3	213.6	7.6	7.2	29	16	11	14.2	233.3	4.0	0.444	8.7	7.1	56.5	281	560.5
19.5	286.7	182.1	8.1	7.3	32	14	12	14.8	233.3	#DIV/0!	#DIV/0!	8.3	7.3	79.0	431	837.4
17.9	286.7	206.4	7.8	7.1	39	19	10	14.1	280.0	4.4	0.397	8.4	6.8	106.0	250	676.7
18.4	285.0	247.7	8.0	7.2	31	16	10	13.8	250.0	4.6	0.414	8.4	7.0	80.4	303	727.8
14.4	220.0	145.0	6.1	6.9	18	10	3	10.0	200.0	3.7	0.390	6.2	6.2	51.0	54	48.3
22.4	340.0	640.0	12.1	7.6	79	30	15	17.5	380.0	5.8	0.444	11.0	7.8	147.0	995	1220.0

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
	Flow (MGD)																	
30-Jan																		
31-Jan																		
1-Feb	13.410	2.222	OOS	3.760		17.170	19.180	9.900	5.880	0.654	58	34						
2-Feb	16.690	2.744	OOS	4.560		21.250	21.250	8.170	4.670	0.701	38	22						
3-Feb	12.150	1.960	OOS	3.200		15.350	17.870	9.170	7.900	0.679	60	51						
4-Feb	11.420	1.746	OOS	2.820		14.240	16.470	8.990	7.450	0.481	63	52						
5-Feb	13.370	2.236	OOS	4.140		17.510	19.530	8.430	7.350	0.471	48	42						
6-Feb	13.500	2.400	OOS	3.080		16.580	19.820	8.230	8.260	0.592	50	50						
7-Feb	13.900	2.138	OOS	3.670		17.570	20.940	8.950	4.550	0.743	51	26						
8-Feb	13.290	2.274	OOS	3.530		16.820	19.800	8.490	5.900	0.756	50	35						
9-Feb	12.000	2.056	OOS	3.230		15.230	17.490	8.970	7.000	0.678	59	46						
10-Feb	11.830	1.968	OOS	3.070		14.900	16.900	9.060	6.830	0.557	61	46						
11-Feb	11.650	1.889	0.631	2.920		14.570	15.830	8.820	6.540	0.296	61	45						
12-Feb	11.250	1.908	0.560	3.070		14.320	16.260	8.840	6.600	0.340	62	46						
13-Feb	11.100	2.052	0.632	3.260		14.360	16.970	8.640	6.490	0.660	60	45						
14-Feb	12.970	2.277	0.746	3.590		16.560	19.040	8.140	6.850	0.484	49	41						
15-Feb	12.020	2.034	0.675	3.270		15.290	18.290	8.620	4.930	0.754	56	32						
16-Feb	11.810	2.051	0.696	3.280		15.090	16.720	1.990	5.440	0.735	13	36						
17-Feb	12.540		0.664	3.580		16.120	19.360	8.480	5.750	0.723	53	36						
18-Feb	12.760		0.655	3.930		16.690	19.930	8.770	5.240	0.559	53	31						
19-Feb	11.000	2.161	0.596	3.530		14.530	17.980	7.750	6.780	0.432	53	47						
20-Feb	13.670	2.288	0.681	3.450		17.120	17.320	8.990	5.450	0.557	53	32						
21-Feb	12.120	2.102	0.662	3.440		15.560	17.880	8.390	5.920	0.733	54	38						
22-Feb	12.050	2.224	0.693	3.330		15.380	17.290	8.460	5.860	0.731	55	38						
23-Feb	11.620	1.988	0.665	3.220		14.840	17.150	8.790	6.200	0.871	59	42						
24-Feb	13.980	2.709	0.807	3.740		17.720	20.300	9.180	5.820	0.685	52	33						
25-Feb	15.540	2.520	0.612	4.690		20.230	20.330	8.580	3.990	0.299	42	20						
26-Feb	13.370	2.422	0.608	3.670		17.040	18.340	8.790	5.720	0.321	52	34						
27-Feb	13.020	2.467	0.691	4.020		17.040	20.760	8.950	5.950	0.799	53	35						
28-Feb	13.940	2.539	0.715	4.350		18.290	22.140	8.570	3.960	0.704	47	22						
Total	357.970	61.789	11.989	99.400	0.000	457.370	521.040	237.110	169.280	16.995	1463	1057						
Week 1	13.491	2.207	#DIV/0!	3.604	#DIV/0!	17.096	19.294	8.834	6.580	0.617	53	40						
Week 2	12.013	2.061	0.642	3.239	#DIV/0!	15.251	17.470	8.709	6.601	0.539	57	43						
Week 3	12.274	2.150	0.661	3.497	#DIV/0!	15.771	18.211	7.570	5.644	0.642	48	36						
Week 4	13.360	2.410	0.684	3.860	#DIV/0!	17.220	19.459	8.760	5.357	0.630	51	32						
Monthly	12.785	2.207	0.666	3.550	#DIV/0!	16.335	18.609	8.468	6.046	0.607	52	38						
Min =	11.000	1.746	0.560	2.820	0.000	14.240	15.830	1.990	3.960	0.296	13	20						
Max =	16.690	2.744	0.807	4.690	0.000	21.250	22.140	9.900	8.260	0.871	63	52						

Influent flow used due to inaccuracy of Effluent flow metering over 25 MGD

Print Date: 3/21/2011

	February 2011			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
30-Jan															
31-Jan															
1-Feb															
2-Feb	7.0		4160	7.1		4880	7.1		4840	7.2		4260	7.3		4680
3-Feb															
4-Feb	7.1	26	4740	7.1	282	4520	7.1	666	4740	7.0	662	4140	7.2	1004	5080
5-Feb															
6-Feb															
7-Feb	6.9	42	4640	7.1	240	4980	7.1	798	3520	7.2	370	4780	7.2	774	4920
8-Feb															
9-Feb	7.0		4800	7.1		5000	7.1		4580	7.1		4840	7.2		5320
10-Feb															
11-Feb	7.1	54	4780	7.2	338	4820	7.1	160	4520	7.1	504	4960	7.1	340	4920
12-Feb															
13-Feb															
14-Feb	7.0	336	2440	7.2	214	4840	7.2	320	4480	7.1	324	4660	7.1	32	4580
15-Feb															
16-Feb	6.5		4200	6.7		4800	6.7		4600	7.1		4720	7.2		5100
17-Feb															
18-Feb	7.0	392	2880	7.2	312	4500	7.3	344	4800	7.2	200	4780	7.2	380	5020
19-Feb															
20-Feb															
21-Feb	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
22-Feb															
23-Feb	7.2	164	4260	7.3	140	4820	7.2	216	4560	7.1	248	4700	7.2	180	4920
24-Feb															
25-Feb	7.0	162	4280	7.2	126	4700	7.2	214	4500	7.1	316	4840	7.2	122	4960
26-Feb															
27-Feb															
28-Feb	7.0	78	4030	7.2	386	4790	7.2	472	4400	7.2	258	4440	7.2	568	5100
Total	76.8	1254	45210	78.4	2038	52650	78.4	3190	49540	78.4	2882	51120	79.1	3400	54600
Week 1	7.0	34	4513	7.1	261	4793	7.1	732	4367	7.1	516	4393	7.2	889	4893
Week 2	7.0	195	4007	7.2	276	4887	7.1	240	4527	7.1	414	4820	7.1	186	4940
Week 3	6.7	392	3540	6.9	312	4650	7.0	344	4700	7.1	200	4750	7.2	380	5060
Week 4	7.1	135	4190	7.2	217	4770	7.2	301	4487	7.1	274	4660	7.2	290	4993
Monthly	7.0	157	4110	7.1	255	4786	7.1	399	4504	7.1	360	4647	7.2	425	4964
Min =	6.5	26	2440	6.7	126	4500	6.7	160	3520	7.0	200	4140	7.1	32	4580
Max =	7.2	392	4800	7.3	386	5000	7.3	798	4840	7.2	662	4960	7.3	1004	5320

Print Date: 3/21/2011

Dissolved Oxygen -February 2011

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
2/1/2011	9.0	8.8	8.7	8.6	8.5	8.5	9.39		8.5
2/2/2011	8.5	8.2	8.3	8.4	7.8	8.0	8.63		7.8
2/3/2011	8.5	8.8	9.0	9.0	8.8	8.6	9.6		8.5
2/4/2011	8.8	8.8	8.7	9.0	9.0	9.0	10.2		8.7
2/5/2011	9.0	8.8	8.8	8.4	8.3	8.0	9.4		8.0
2/6/2011	8.2	8.3	8.2	8.0	8.0	7.9	9.2		7.9
2/7/2011	8.1	8.0	8.6	8.5	8.4	8.2	9.1		8.0
2/8/2011	8.2	8.1	7.9	7.9	8.2	8.5	8.4		7.9
2/9/2011	8.8	8.8	9.2	9.2	8.9	8.8	9.5		8.8
2/10/2011	8.8	8.7	8.8	8.7	8.8	8.7	9.5		8.7
2/11/2011	8.9	8.9	8.8	8.6	8.4	8.3	9.6		8.3
2/12/2011	8.4	8.4	8.3	8.5	8.5	8.4	9.0		8.3
2/13/2011	8.7	8.8	8.5	8.4	8.4	8.2	9.3		8.2
2/14/2011	8.2	8.2	8.0	7.8	7.6	7.7	8.6		7.6
2/15/2011	7.8	8.0	8.1	8.4	8.9	8.9	8.6		7.8
2/16/2011	8.8	8.7	8.8	8.6	8.4	8.3	9.9		8.3
2/17/2011	8.3	8.4	8.1	7.8	7.8	7.7	8.9		7.7
2/18/2011	7.7	7.6	7.6	7.6	7.5	7.6	8.1		7.5
2/19/2011	7.6	7.8	8.0	8.0	8.4	8.6	8.7		7.6
2/20/2011	8.7	8.9	8.8	8.8	8.7	8.4	8.9		8.4
2/21/2011	8.4	8.3	8.2	8.3	8.3	8.3	8.9		8.2
2/22/2011	8.4	8.5	8.6	8.2	8.1	8.1	9.6		8.1
2/23/2011	8.1	8.2	8.1	8.6	8.8	8.6	9.0		8.1
2/24/2011	8.7	8.7	8.7	8.4	8.4	8.3	9.3		8.3
2/25/2011	8.2	8.0	7.6	6.9	7.3	7.9	8.2		6.9
2/26/2011	8.2	8.3	8.5	8.5	8.5	8.2	9.1		8.2
2/27/2011	8.2	8.2	8.3	8.2	8.1	8.1	9.5		8.1
2/28/2011	8.1	7.9	7.9	7.7	7.8	7.8	8.7		7.7
3/1/2011									
3/2/2011									
3/3/2011									
Min	7.60	7.60	7.60	6.90	7.30	7.60	8.1	Min	6.90
Max	9.00	8.90	9.20	9.20	9.00	9.00	10.2	Max	8.80
								Avg	8.08

	February 2011 Total Residual Chlorine						
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average
1-Feb	0.05	0.00	0.00	0.00	0.00	0.00	0.01
2-Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-Feb	0.01	0.02	0.01	0.00	0.00	0.00	0.01
4-Feb	0.01	0.00	0.00	0.02	0.01	0.00	0.01
5-Feb	0.02	0.00	0.00	0.00	0.00	0.01	0.01
6-Feb	0.01	0.02	0.00	0.00	0.01	0.02	0.01
7-Feb	0.00	0.01	0.02	0.01	0.04	0.02	0.02
8-Feb	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9-Feb	0.00	0.00	0.00	0.00	0.00	0.01	0.00
10-Feb	0.01	0.00	0.01	0.00	0.00	0.01	0.01
11-Feb	0.00	0.01	0.01	0.00	0.00	0.01	0.01
12-Feb	0.02	0.01	0.02	0.00	0.01	0.01	0.01
13-Feb	0.01	0.01	0.01	0.01	0.01	0.01	0.01
14-Feb	0.00	0.00	0.01	0.00	0.00	0.00	0.00
15-Feb	0.01	0.00	0.02	0.03	0.02	0.00	0.01
16-Feb	0.00	0.00	0.01	0.01	0.01	0.01	0.01
17-Feb	0.01	0.01	0.01	0.01	0.01	0.00	0.01
18-Feb	0.00	0.01	0.02	0.02	0.00	0.01	0.01
19-Feb	0.01	0.01	0.00	0.01	0.01	0.00	0.01
20-Feb	0.00	0.01	0.00	0.00	0.01	0.00	0.00
21-Feb	0.01	0.01	0.01	0.02	0.00	0.05	0.02
22-Feb	0.01	0.01	0.01	0.01	0.03	0.02	0.02
23-Feb	0.04	0.00	0.04	0.03	0.01	0.02	0.02
24-Feb	0.00	0.01	0.02	0.02	0.01	0.02	0.01
25-Feb	0.02	0.33	0.00	0.01	0.01	0.01	0.06
26-Feb	0.00	0.00	0.01	0.02	0.01	0.02	0.01
27-Feb	0.01	0.01	0.00	0.00	0.01	0.04	0.01
28-Feb	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Average	0.01	0.02	0.01	0.01	0.01	0.01	0.01
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	
Maximum	0.05	0.33	0.04	0.03	0.04	0.05	

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* February 2011

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	= 0.00
	X	X 0.0000417	= 0.00
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	**TOTAL**	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 19.67	X 0.01	= 0.00
0.00	X 19.67	X 0.01	= 0.00
0.00	X 19.67	X 0.01	= 0.00
789.53	X 19.67	X 0.01	= 155.30
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	**TOTAL**	= 155.30

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	155.30
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

03/24/11
Date

City of Reading 3-C Watershed *for the Month* February 2011

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	01/31/2011

RECEIVED
EPA REGION III
FEB 24 2011
WATER PROTECTION DIVISION
(3WP00)

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	67	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	8.0	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	7.9		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1116	1283		******	9	11		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	1505	******		******	11.9	******		0	Daily	COMP24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	15.10	19.39		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.02	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		02/16/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	01/31/2011

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.00911	******		******	<0.00007	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	3	******		0	Daily	GRAB
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1558	1651		******	12	13		0	Daily	COMP24
80082 1 1 Effluent Gross	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		02/16/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

	January 2011				City of Reading Wastewater Treatment Plant										
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Jan	15.5	20	11	7	8.5	13.51	8.2	7.5	0.66		1	75	0.0	27	54
2-Jan	14.9	22	13	7	10.8	15.80	8.0	7.3	0.56		3	75	0.0	31	54
3-Jan	12.4	21	12	15	10.8	14.25	8.2	7.4	0.39		6	60	0.0	20	37
4-Jan	13.0	28	16	11	11.9	14.52	8.5	7.3	0.40		27	60	0.0	19	44
5-Jan	13.5	26	16	12	11.6	14.39	8.4	7.3	0.37		11	60	0.0	21	38
6-Jan	13.7	21	11	9	12.0	14.22	8.3	7.5	0.20		78	65	0.1	15	36
7-Jan	13.6	22	14	8	11.2	14.14	8.5	7.5	0.35		11	65	0.0	15	32
8-Jan	11.6	20	12	8	9.1	14.04	8.7	7.4	0.22		16	65	0.1	15	27
9-Jan	11.6	25	14	10	10.1	14.43	9.0	7.4	0.33		7	65	0.0	20	32
10-Jan	12.0	26	15	10	10.5	14.68	9.3	7.5	0.39		1	65	0.0	18	31
11-Jan	12.4	26	14	11	11.7	14.73	9.4	7.5	0.40		2	65	0.3	15	30
12-Jan	12.0	23	12	11	13.0	14.96	8.7	7.8	0.40		3	65	0.0	20	30
13-Jan	11.2	23	14	8	11.4	14.33	9.2	7.7	0.27		20	65	0.0	11	32
14-Jan	11.1	26	13	9	11.2	13.95	9.7	7.6	0.43		3	75	0.0	11	33
15-Jan	11.5	22	12	15	10.4	14.59	9.1	7.9	0.15		2	65	0.0	15	37
16-Jan	12.2	21	11	6	9.4	14.82	8.8	7.5	0.43		1	75	0.0	18	36
17-Jan	11.7	22	13	6	11.5	15.26	9.2	7.5	0.61		1	65	0.2	20	24
18-Jan	11.3	23	13	8	13.4	19.39	8.8	7.5	0.59		1	50	0.4	21	36
19-Jan	12.9	24	15	8	8.8	17.59	8.4	7.8	1.17		1	75	0.0	33	43
20-Jan	12.9	21	9	6	9.8	14.76	8.4	7.5	0.83		1	65	0.0	28	37
21-Jan	12.0	23	13	8	12.8	14.96	8.4	7.7	0.74		1	75	0.0	15	31
22-Jan	10.2	23	12	7	13.1	15.11	8.4	7.7	1.11		1	75	0.0	3	27
23-Jan	9.8	24	15	13	13.2	15.75	8.4	7.6	1.16		1	100	0.0	1	28
24-Jan	9.3	23	12	10	12.7	15.49	9.2	7.5	0.89		1	85	0.0	-2	27
25-Jan	10.3	16	12	7	13.3	15.01	8.7	7.7	1.28		1	85	0.0	21	40
26-Jan	11.7	16	11	10	16.6	15.27	8.1	7.6	0.29		3	65	0.6	24	33
27-Jan	10.8	20	11	8	17.4	16.05	8.3	7.6	0.50		3	65	0.0	24	38
28-Jan	11.9	18	9	4	16.4	15.09	8.3	7.5	0.42		4	50	0.0	25	35
29-Jan	11.9	23	11	8	13.0	15.18	8.3	7.3	0.34		1	60	0.0	15	31
30-Jan	11.6	17	9	6	12.6	15.79	8.4	7.6	0.46		1	50	0.0	18	41
31-Jan	11.2	16	9	10	11.5	15.29	8.6	7.5	0.43		20	50	0.2	10	38
						See DO profile					<				
TOTAL		681	384	276	369.6	467.4	###	233.7	16.77			2080	1.8		
Week 1	13.8	23	13	10	11.0	14.4	8.3	7.40	0.42		20	66	0	21	42
Week 2	11.7	24	13	11	11.0	14.4	9.1	7.56	0.35		7	66	0	16	31
Week 3	12.1	22	12	7	10.9	15.9	8.7	7.65	0.65		1	67	0	21	35
Week 4	10.6	20	12	9	14.7	15.4	8.5	7.60	0.81		2	75	0	14	33
Monthly	12.0	22	12	9	11.9	15.1	8.6	7.54	0.51		3	67	0	18	35
Only highlighted weekly averages have been adjusted as stated below.															
Min =	9.3	16	9	4	8.5	13.51	8.0	7.3	0.15		1	50	0.0	-2	24
Max =	15.5	28	16	15	17.4	19.39	9.7	7.9	1.28		78	100	0.6	33	54
Weekly averages: 1/2 -1/8, 1/9-15, 1/16-22 and 1/23-29. 1/30 and 1/31 weekly avg's included in February DMR.															
DISCHARGE LIMITATIONS															
Ave Monthly:			25	30	18		Min.	6.0			10,000	186			
Ave Weekly:			40	45			of	to							
Inst. Max:			50	60	24		5.0	9.0				465			

Print Date: 2/16/2011

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS							NH_3N							
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Jan	3,644	25,706	29,349	2,436		31,785	2,253	1,239	2,058	23,524	25,582	2,826	28,408	789	759	619	1,947	2567	1,337	96	3,904	954
2-Jan	7,556	36,569	44,125	3,022	269	47,148	2,899	1,713	5,944	27,862	33,806	27,261	61,067	922	530	657	1,976	2,634	1,755	94	4,389	1,423
3-Jan	4,954	29,917	34,871	13,728		48,599	2,496	1,426	5,945	42,986	48,931	-1,750	47,181	1,783	4,483	610	1,858	2,468	2,139	3,500	4,607	1,284
4-Jan	4,954	45,893	50,846	-4,576		46,270	3,391	1,938	4,227	31,282	35,509	3,011	38,520	1,332	8,604	674	2,370	3,043	2,821	456	5,865	1,441
5-Jan	6,283	45,299	51,582	7,472		59,054	3,120	1,920	7,910	36,772	44,682	11,697	56,380	1,440	1,253	590	2,025	2,615	2,867	442	5,482	1,392
6-Jan	5,124	41,700	46,824	-8,066	642	38,758	2,490	1,305	4,953	24,186	29,139	10,666	39,805	1,067	1,852	583	1,935	2,518	1,976	3,479	4,494	1,423
7-Jan	6,360	49,652	56,012	-15,287		40,725	2,594	1,651	6,237	31,998	38,235	-13,204	25,031	943	809	566	1,836	2,403	1,789	2,300	4,192	1,321
8-Jan	7,866	44,454	52,320	-5,042		47,278	2,342	1,405	5,506	22,687	28,193	14,751	42,944	937	328	649	1,885	2,534	2,469	3,462	5,004	1,063
9-Jan	6,303	45,396	51,699	-4,462	481	47,238	3,009	1,685	5,833	28,373	34,205	7,836	42,042	1,203	1,239	640	2,100	2,739	1,465	1,714	4,204	1,215
10-Jan	5,444	57,945	63,389	-17,127		46,262	3,183	1,836	5,064	30,097	35,161	8,949	44,110	1,224	1,301	625	1,903	2,527	3,013	905	5,541	1,286
11-Jan	4,863	43,410	48,273	-2,154		46,119	3,194	1,720	3,760	34,901	38,661	15,609	54,270	1,351	175	580	1,927	2,508	3,134	4,516	5,641	1,437
12-Jan	6,690	44,369	51,059	-14,537		36,522	2,870	1,497	5,703	34,253	39,956	-5,869	34,087	1,372	6,283	630	1,872	2,502	2,224	835	4,726	1,622
13-Jan	7,116	55,891	63,007	-5,000	440	58,006	2,749	1,673	6,302	35,426	41,728	1,670	43,397	956	189	864	1,926	2,790	1,475	4,421	4,265	1,362
14-Jan	5,762	41,980	47,742	-5,253		42,489	3,025	1,512	5,435	27,449	32,884	2,928	35,812	1,047	404	623	2,042	2,666	1,067	1,583	3,733	1,303
15-Jan	5,790	29,624	35,414	8,517		43,931	2,677	1,460	5,746	28,343	34,089	14,337	48,426	1,825	533	714	2,178	2,892	837	77	3,729	1,265
16-Jan	6,283	38,581	44,864	637		45,501	2,596	1,360	4,565	26,064	30,629	10,756	41,385	742	1,737	689	2,083	2,773	1,777	328	4,550	1,157
17-Jan	7,090	60,824	67,913	-32,519		35,394	2,800	1,654	4,271	30,412	34,683	-4,998	29,685	764	1,799	623	2,055	2,678	2,106	3,439	4,784	1,464
18-Jan	4,564	49,034	53,598	-9,077	704	44,521	3,719	2,102	5,236	39,227	44,464	19,301	63,765	1,294	1,520	596	2,117	2,713	3,204	3,607	5,917	2,167
19-Jan	3,930	37,360	41,290	1,651		42,941	3,521	2,201	3,036	29,710	32,746	17,855	50,601	1,174	1,312	626	1,788	2,414	2,600	4,353	5,014	1,289
20-Jan	6,258	41,807	48,066	-762	690	47,304	2,585	1,108	6,124	26,152	32,276	17,143	49,419	739	5,979	659	2,250	2,910	1,854	2,518	4,764	1,210
21-Jan	[illegible]	40,918	46,847	10,381		57,227	2,870	1,622	[illegible]	23,128	28,588	16,094	44,681	998	700	[illegible]	2,010	2,648	1,853	2,426	4,501	1,597
22-Jan	6,102	41,026	47,129	3,616		50,745	2,898	1,512	7,368	22,517	29,885	13,071	42,956	882	275	850	2,290	3,140	1,593	2,622	4,732	1,651
23-Jan	[illegible]	40,739	46,668	-2,726	644	43,942	3,153	1,970	[illegible]	25,201	30,661	12,330	42,992	1,708	464	[illegible]	2,369	3,007	948	3,398	3,955	1,734
24-Jan	6,705	51,053	57,759	5,588		63,346	2,971	1,550	5,811	55,880	61,691	1,885	63,577	1,292	862	628	1,931	2,559	2,140	6,106	4,699	1,641
25-Jan	5,359	43,073	48,432	-4,764		43,668	2,003	1,502	4,806	76,300	81,107	-8,290	72,817	876	894	595	2,101	2,696	2,489	5,478	5,186	1,665
26-Jan	5,780	47,738	53,518	-12,813		40,705	2,038	1,401	6,095	39,959	46,053	-11,039	35,015	1,274	1,318	618	2,095	2,713	2,605	4,893	5,318	2,114
27-Jan	5,963	41,508	47,471	-7,160	533	40,311	2,677	1,472	6,514	51,101	57,615	-17,994	39,620	1,071	1,550	667	2,232	2,900	2,214	3,188	5,114	2,329
28-Jan	6,715	40,862	47,577	-5,573		42,004	2,265	1,133	7,204	31,892	39,096	9,269	48,365	503	137	627	2,332	2,959	1,230	1,018	4,188	2,064
29-Jan	7,291	31,292	38,583	9,508		48,091	2,912	1,393	7,897	24,497	32,394	12,342	44,736	1,013	884	603	1,931	2,535	1,693	420	4,228	1,646
30-Jan	[illegible]	35,184	41,113	2,756	540	43,869	2,239	1,185	[illegible]	26,083	31,543	15,156	46,699	790	1,904	[illegible]	1,895	2,533	1,476	2,154	4,010	1,659
31-Jan	5,252	34,322	39,575	-3,421		36,154	2,040	1,148	3,331	36,671	40,001	-870	39,131	1,275	1,095	447	1,861	2,307	2,010	3,907	4,317	1,466
TOTAL	183,790	1,313,126	1,496,916	-91,009	4,942	1,405,907	85,579	48,294	169,262	1,024,933	1,194,194	202,730	1,396,925	34,586	51,171	19,767	63,122	82,889	62,160	77,734	145,050	46,646
Week 1	5,554	39,248	44,802	-182	455	44,620	2,762	1,623	5,325	31,230	36,555	5,787	42,342	1,204	2,613	614	1,993	2,607	2,098	1,481	4,705	1,320
Week 2	6,292	47,635	53,927	-7,654	460	46,273	2,958	1,626	5,372	30,455	35,827	6,553	42,380	1,283	1,417	659	1,951	2,609	2,121	2,491	4,730	1,327
Week 3	5,692	42,593	48,285	-3,025	697	45,260	2,998	1,651	4,920	29,005	33,925	12,927	46,852	942	1,940	649	2,069	2,718	2,033	2,392	4,751	1,450
Week 4	6,079	43,714	49,793	-3,405	589	46,389	2,574	1,489	6,180	43,264	49,444	-110	49,334	1,105	786	660	2,193	2,853	1,888	3,815	4,742	1,885
Monthly	5,929	42,359	48,288	-2,936	549	45,352	2,761	1,558	5,460	33,062	38,522	6,540	45,062	1,116	1,651	638	2,036	2,674	2,005	2,508	4,679	1,505
Min =	3644	25706	29349	-32519	269	31,785	2,003	1,108	2,058	22,517	25,582	-17,994	25,031	503	137	447	1,788	2,307	837	77	3,729	954
Max =	7866	60824	67913	13728	704	63,346	3,719	2,201	7,910	76,300	81,107	27,261	72,817	1,825	8,604	864	2,370	3,140	3,204	6,106	5,917	2,329
								4,170						7,130								3,000
								6,255						10,696								

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	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Jan								
2-Jan								
3-Jan								
4-Jan	< 0.00007	< 0.00154	0.00010	0.00937	0.00020	0.02314	< 0.00007	< 0.00848
5-Jan	< 0.00007	< 0.00158	0.00030	0.02665	0.00050	0.05571	< 0.00007	< 0.00840
6-Jan								
7-Jan								
8-Jan								
9-Jan								
10-Jan								
11-Jan	< 0.00007	< 0.00143	0.00008	0.00695	0.00030	0.03218	< 0.00007	< 0.00860
12-Jan								
13-Jan								
14-Jan								
15-Jan								
16-Jan								
17-Jan								
18-Jan	0.00010	0.00240	0.00010	0.01196	0.00040	0.05745	< 0.00007	< 0.01132
19-Jan								
20-Jan								
21-Jan								
22-Jan								
23-Jan								
24-Jan								
25-Jan	0.00007	0.00149	0.00009	0.00791	0.00020	0.02183	< 0.00007	< 0.00876
26-Jan								
27-Jan								
28-Jan								
29-Jan								
30-Jan								
31-Jan								
Total	0.00038	0.00844	0.00067	0.06283	0.00160	0.19030	0.00035	0.04556
Week 1	< 0.00007	< 0.00156	0.00020	0.01801	0.00035	0.03942	< 0.00007	< 0.00844
Week 2	< 0.00007	< 0.00143	0.00008	0.00695	0.00030	0.03218	< 0.00007	< 0.00860
Week 3	0.00010	0.00240	0.00010	0.01196	0.00040	0.05745	< 0.00007	< 0.01132
Week 4	0.00007	0.00149	0.00009	0.00791	0.00020	0.02183	< 0.00007	< 0.00876
Monthly	< 0.00008	< 0.00169	0.00013	0.01257	0.00032	0.03806	< 0.00007	< 0.00911
Min =	< 0.00007	< 0.00143	0.00008	0.00695	0.00020	0.02183	< 0.00007	< 0.00840
Max =	0.00010	0.00240	0.00030	0.02665	0.00050	0.05745	< 0.00007	< 0.01132
							0.00023	0.055
							0.00046	

Print Date: 2/16/2011

	January 2011				City of Reading Wastewater Treatment Plant																			Laboratory Process Control Data							
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw							Primary Effluent					Intermediate Effluent						
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	Temp	DO	FLOW	BOD	TSS	NH3-N	pH	DO	BOD	TSS	NH3-N	Alkalinity	DO	pH	BOD	TSS
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	°C	mg/L	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jan	170	96	7.4	28.9	330	302	7.1	25.0	295	258	25.8	25	28	13.5	320	286	39.3	6.9	14.7	11.0	11.91	255	59	28.2	6.5	0.1	32	17	24.6		5.8	6.8	26	14
2-Jan	300	236	7.4	26.1	420	320	7.2	22.7	393	301	23.5	27	243	15.6	420	544	39.1	7.1	15.8	11.1	13.46	272	59	28.5	6.5	0.2	62	70	26.6		4.6	6.9	24	8
3-Jan	220	264	7.7	27.1	380	546	7.5	23.6	344	483	24.4	136	-17	21.1	480	466	45.5	6.9	13.1	13.3	12.14	262	103	28.5	6.4	0.2	42	35	24.4	320	5.9	7.0	30	21
4-Jan	225	192	6.8	30.6	490	334	7.3	25.3	440	307	26.3	-40	26	24.4	400	333	50.7	6.9	12.8	13.5	13.87	265	80	31.7	6.4	0.2	54	33	27.3		5.3	7.0	41	25
5-Jan	278	350	7.2	26.1	510	414	6.9	22.8	463	401	23.5	67	105	25.7	530	506	49.2	6.9	13.9	12.2	13.36	295	91	32.2	6.4	0.3	61	53	27.0	320	5.0	6.8	45	32
6-Jan	240	232	7.5	27.3	500	290	7.6	23.2	447	278	24.0	-77	102	18.9	370	380	42.9	7.0	13.3	9.4	12.56	262	69	31.0	6.5	0.2	64	49	26.1		5.0	6.9	33	14
7-Jan	310	304	8.2	27.6	630	406	7.0	23.3	564	385	24.2	-154	-133	18.0	410	252	42.2	6.7	12.6	10.2	11.91	352	82	30.7	6.3	0.1	63	37	26.5	380	6.6	7.0	43	17
8-Jan	360	252	7.1	29.7	580	296	7.1	24.6	531	286	25.7	-51	150	25.1	480	436	50.8	7.0	12.2	7.1	11.81	285	61	31.5	6.5	0.1	61	40	24.7		5.9	7.0	36	11
9-Jan	268	248	7.2	27.2	480	300	7.1	22.2	438	290	23.2	-38	66	12.4	400	356	35.6	7.0	11.5	8.5	14.16	285	84	27.6	6.8	0.2	45	23	23.5		6.5	7.3	37	18
10-Jan	258	240	7.7	29.6	670	348	7.3	22.0	589	327	23.5	-159	83	28.0	430	410	51.5	6.8	9.4	13.3	12.90	390	129	30.8	6.4	1.7	46	33	24.8	300	6.2	6.8	37	18
11-Jan	238	184	8.2	28.4	500	402	7.2	22.2	450	360	23.4	-20	146	29.2	430	506	52.6	6.9	13.8	12.4	12.86	325	83	33.3	6.7	0.2	64	49	26.6		5.8	6.8	43	22
12-Jan	305	260	7.6	28.7	500	386	7.3	21.1	461	361	22.6	-131	-53	20.1	330	308	42.7	7.0	15.5	13.5	13.27	272	92	29.2	6.4	0.2	52	31	26.1	340	4.4	7.0	36	18
13-Jan	332	294	8.1	40.3	650	412	6.7	22.4	587	388	26.0	-47	16	13.7	540	404	39.7	7.1	15.8	13.1	12.88	295	57	27.8	6.4	0.1	63	55	23.1		5.4	6.9	34	13
14-Jan	282	266	7.9	30.5	520	340	6.8	25.3	472	325	26.4	-52	29	10.5	420	354	36.9	7.0	15.6	12.3	12.13	310	112	27.8	6.5	0.1	54	37	25.4	320	4.8	7.2	36	17
15-Jan	262	260	7.7	32.3	370	354	7.1	27.2	347	334	28.3	83	140	8.2	430	474	36.5	7.2	9.6	10.1	12.25	250	93	30.1	6.9	1.2	46	49	26.0		6.4	7.3	36	27
16-Jan	278	202	7.7	30.5	450	304	7.3	24.3	414	283	25.6	6	99	16.4	420	382	42.0	7.3	11.2	10.5	12.99	262	73	29.3	6.8	1.3	44	29	24.4		6.5	7.3	34	14
17-Jan	322	194	7.7	28.3	660	330	7.3	22.3	595	304	23.5	-285	-44	18.4	310	260	41.9	7.4	11.6	10.7	13.69	315	84	28.6	6.9	1.1	49	23	25.0		6.4	7.3	35	11
18-Jan	190	218	7.9	24.8	410	328	7.0	17.7	373	310	18.9	-63	134	22.3	310	444	41.2	7.0	15.0	12.9	17.22	278	75	25.2	6.5	0.1	42	21	20.2		4.5	7.2	30	7
19-Jan	145	112	7.7	23.1	420	334	7.0	20.1	356	282	20.8	14	154	22.4	370	436	43.2	7.1	15.3	13.6	13.918	242	92	25.0	6.7	0.4	54	39	19.7	300	4.2	7.1	31	17
20-Jan	280	274	7.6	29.5	470	294	7.0	25.3	432	290	26.1	-7	154	16.7	425	444	42.8	7.3	15.1	10.4	13.246	268	84	29.8	6.6	0.1	58	37	21.1		5.3	7.2	34	17
21-Jan	ns	ns	7.7	ns	460	260	6.9	22.6	426	260	24.1	94	146	16.8	520	406	40.9	6.6	14.6	11.1	13.196	285	83	28.5	6.5	0.2	66	42	24.1	320	3.2	6.9	31	20
22-Jan	270	326	7.5	37.6	430	236	6.9	24.0	399	253	26.6	31	111	13.5	430	364	40.1	7.0	15.0	14.2	14.15	262	92	27.4	6.5	0.1	50	25	21.9		6.5	6.3	39	18
23-Jan	ns	ns	ns	ns	430	266	7.0	25.0	393	258	25.3	-23	104	8.0	370	362	33.3	7.0	13.6	17.3	14.24	250	90	28.4	6.5	0.3	65	39	23.1		6.4	7.2	50	16
24-Jan	300	260	7.7	28.1	550	602	ns	20.8	501	536	22.2	49	16	18.6	550	552	40.8	7.4	13.6	14.6	13.81	272	84	29.9	6.8	0.2	70	43	22.5	280	6.7	7.3	45	23
25-Jan	252	226	7.8	28.0	490	868	7.3	23.9	444	743	24.7	-44	-76	22.8	400	667	47.5	7.2	13.0	15.2	13.09	265	85	29.8	6.2	0.3	54	37	24.2		4.5	6.6	43	23
26-Jan	275	290	7.7	29.4	540	452	7.3	23.7	489	421	24.8	-117	-101	23.8	372	320	48.6	7.3	14.5	14.9	13.12	242	74	29.6	6.5	0.1	43	23	26.2	360	4.7	6.8	32	19
27-Jan	260	284	7.7	29.1	450	554	7.2	24.2	412	500	25.2	-62	-156	19.2	350	344	44.4	7.2	16.0	2.3	13.81	255	94	32.4	6.5	0.1	ns	ns	ns		5.3	6.6	32	24
28-Jan	330	354	7.6	30.8	410	320	7.1	23.4	396	326	24.7	-46	77	10.2	350	403	34.9	7.0	15.5	2.9	14.39	238	74	27.4	6.7	0.1	56	44	24.4	300	4.9	6.8	28	12
29-Jan	325	352	8.0	26.9	350	274	7.7	21.6	345	290	22.7	85	110	15.1	430	400	37.8	7.1	13.6	15.2	13.41	228	79	25.2	6.6	2.3	48	34	23.4		6.1	7.2	34	18
30-Jan	ns	ns	8.0	ns	375	278	7.8	20.2	349	267	21.5	23	129	12.5	372	396	34.0	7.2	13.6	18.8	14.14	220	85	25.6	6.8	0.1	46	35	23.7		6.0	7.2	28	16
31-Jan	328	208	7.6	27.9	380	406	7.3	20.6	372	376	21.7	-32	-8	18.9	340	368	40.6	7.1	14.2	20.5	12.75	258	64	27.2	6.6	0.4	49	34	22.8	300	5.9	6.9	28	10
TOTAL	7603	6978	229.4	814.4	14805	11556	215	712.6	13517	10783	749.0	-808	1780	560.2	12709	12563	1309.2	###	#####	###	412.74	8515	2566	898.2	###	12.0	1603	1116	729.4	3840	170.5	216.6	1091	540
Week 1	249	239	7.4	27.7	466	373	7.2	23.7	421	345	24.5	-2	51	19.6	419	395	44.1	6.9	13.7	11.5	12.74	280	78	30.1	6.4	0.2	54	42	26.1	340	5.5	6.9	35	19
Week 2	292	249	7.7	30.6	557	355	7.1	22.8	504	334	24.4	-71	62	19.9	433	396	44.3	7.0	13.4	11.4	12.86	309	88	29.7	6.5	0.4	55	38	24.9	320	5.6	7.0	37	17
Week 3	246	210	7.7	28.1	463	315	7.1	22.8	420	295	23.9	-22	112	17.3	398	407	41.2	7.1	13.2	11.3	13.80	271	83	28.1	6.7	0.6	51	34	22.9	310	5.2	7.2	33	16
Week 4	281	290	7.7	30.5	471	471	7.1	23.6	434	434	24.8	-30	-4	16.6	403	430	41.4	7.1	14.5	11.6	13.80	255	85	29.3	6.5	0.2	56	35	23.7	313	5.6	6.8	38	19
Monthly	272	249	7.6	29.1	478	373	7.2	23.0	436	348	24.2	-26	57	18.1	410	405	42.2	7.0	13.7	12.1	13.31	275	83	29.0	6.6	0.4	53	37	24.3	320	5.5	7.0	35	17
Min =	145	96	6.8	23	330	236	6.7	18	295	253	18.9	-285	-156	8.0	310	252	33.3	6.6	9.4	2.3	11.81	220	57	25.0	6.2	0.1	32	17	19.7	280	3.2	6.3	24	7
Max =	360	354	8.2	40	670	868	7.8	27	595	743	28.3	136	243	29.2	550	667	52.6	7.4	16.0	20.5	17.22	390	129	33.3	6.9	2.3	70	70	27.3	380	6.7	7.3	50	32
									%Removal						%Removal																			
									94.96	97.44	50.65				94.64	97.80	71.77																	

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Tertiary Settling					Final Settling									Filtrate		
NH3-N	Alkalinity	chloride	DO	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	DO	pH	BOD	TS	Ammonia
mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
17.7		125	6.7	7.1	30	12	5	9.1				7.7	6.9		237	30.0
19.2		135	6.1	7.0	33	16	4	11.1				7.6	6.9	37.0	73	12.9
18.9	240	130	8.7	7.1	31	14	9	11.2	180			7.7	7.0		620	484.0
20.5		125	8.0	7.1	36	18	9	12.6		10.6	0.434	8.4	6.9		1057	56.0
20.5	240	150	8.4	7.1	34	22	15	12.5	200			8.0	6.7		160	56.5
19.7		165	8.4	6.9	26	14	5	12.1				7.8	6.9	97.0	280	526.0
20.0	320	180	7.6	6.7	27	16	4	12.0	220			8.0	6.9		172	489.0
17.7		195	7.7	7.3	28	16	5	9.8				8.1	7.1		76	803.0
18.3		145	7.7	7.5	27	15	9	10.4				8.5	7.2	87.0	224	310.0
18.7	220	150	8.5	7.1	32	17	9	10.8	200			8.9	6.6		220	153.0
20.7		145	8.8	7.2	30	14	7	12.9		6.7	0.452	8.6	6.8		29	749.0
20.2	280	210	7.8	7.1	32	15	8	13.2	220			8.1	7.2		1152	153.0
17.3		220	9.1	6.9	32	17	5	11.2				8.5	7.0	93.0	40	935.0
20.6	340	195	8.6	7.3	32	16	6	12.4	220			9.2	7.1		178	698.0
19.8		170	9.0	7.5	27	14	18	12.0				8.5	7.5		188	27.1
17.8		140	8.6	7.4	28	15	5	10.1				7.4	7.4		278	52.5
19.5		145	9.8	7.5	24	14	3	11.8				8.4	7.6		282	539.0
17.4		330	8.1	7.5	31	16	6	13.6		7.6	0.476	8.2	7.2	113.0	244	579.0
15.1	320	430	7.4	7.3	30	14	8	9.4	180			8.3	7.3		230	763.0
17.2		315	8.2	7.2	28	12	7	10.3				8.3	7.1	117.0	1014	427.0
19.8	240	250	7.7	6.1	34	16	ns	12.9	220			8.3	6.9		148	513.0
18.6		205	8.5	7.2	24	17	3	13.1				9.1	6.9		79	754.0
20.2		170	8.8	6.9	30	15	11	13.5				9.0	7.0	157.0	113	828.0
18.8	260	140	9.5	7.2	23	13	5	11.9	100			9.3	7.1		132	935.0
19.5		155	8.4	7.1	28	15	7	13.5		4.8	0.414	8.9	7.0		142	870.0
22.4	260	220	8.0	7.1	26	12	9	16.4	220			8.3	6.5		222	824.0
23.8		335	7.8	7.1	44	14	14	17.5				8.7	6.9	97.0	282	580.0
22.5	240	440	8.1	7.3	37	8	7	16.1	220			8.9	6.9		84	623.0
19.0		270	8.3	7.3	27	12	12	12.7				8.6	7.2		328	156.0
19.6		200	8.3	7.4	24	12	8	13.0				8.7	7.3	93.0	328	371.0
18.2	280	200	9.5	7.3	24	13	5	11.8	220	5.0	0.466	8.9	6.7		176	628.0
599.2	3240	6385	256.1	221.8	919	454	228	380.9	2400	34.7	2.242	260.4	217.6	891	8788	14925.0
19.5	267	144	7.7	7.0	31	16	7	11.5	200	10.6	0.434	7.9	6.9	67	371	236.3
19.1	280	180	8.3	7.2	30	16	7	11.5	213	6.7	0.452	8.5	7.0	90	274	543.0
18.1	280	254	8.4	7.2	29	14	8	11.4	200	7.6	0.476	8.2	7.3	115	341	414.4
20.8	253	238	8.4	7.1	30	13	8	14.6	180	4.8	0.414	8.9	6.9	127	151	773.4
19.3	270	206	8.3	7.2	30	15	8	12.3	200	6.9	0.448	8.4	7.0	99	283	481.5
15.1	220	125	6.1	6.1	23	8	3	9.1	100	4.8	0.414	7.4	6.5	37	29	12.9
23.8	340	440	9.8	7.5	44	22	18	17.5	220	10.6	0.476	9.3	7.6	157	1152	935.0

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
	Flow (MGD)																	
1-Jan	9.340	1.814	OOS	2.570	OOS	11.910	13.510	12.400	5.650	0.384	104	47						
2-Jan	10.440	1.892	OOS	3.020	OOS	13.460	15.800	11.970	5.700	0.871	89	42						
3-Jan	9.440	1.941	OOS	2.700	OOS	12.140	14.250	6.460	5.930	0.867	53	49						
4-Jan	11.230	1.875	OOS	2.640	OOS	13.870	14.520	9.160	4.150	0.976	66	30						
5-Jan	10.650	1.777	OOS	2.710	OOS	13.360	14.390	6.510	4.790	0.939	49	36						
6-Jan	10.000	1.778	OOS	2.560	OOS	12.560	14.220	10.580	4.380	0.793	84	35						
7-Jan	9.450	1.602	OOS	2.460	OOS	11.910	14.140	[illegible]	[illegible]	0.564	90	42						
8-Jan	9.190	1.705	OOS	2.620	OOS	11.810	14.040	10.718	4.953	0.517	91	42						
9-Jan	11.340	2.036	OOS	2.820	OOS	14.160	14.430	12.710	4.590	0.663	90	32						
10-Jan	10.370	1.781	OOS	2.530	OOS	12.900	14.680	12.730	4.750	0.709	99	37						
11-Jan	10.410	1.558	OOS	2.450	OOS	12.860	14.730	12.540	4.420	0.723	98	34						
12-Jan	10.640	1.842	OOS	2.630	OOS	13.270	14.960	13.090	4.490	0.654	99	34						
13-Jan	10.310	1.813	OOS	2.570	OOS	12.880	14.330	13.580	4.640	0.567	105	36						
14-Jan	9.680	1.638	OOS	2.450	OOS	12.130	13.950	12.360	4.050	0.272	102	33						
15-Jan	9.600	1.817	OOS	2.650	OOS	12.250	14.590	12.610	4.240	0.340	103	35						
16-Jan	10.280	1.665	OOS	2.710	OOS	12.990	14.820	12.360	4.450	0.749	95	34						
17-Jan	11.050	1.945	OOS	2.640	OOS	13.690	15.260	12.700	4.590	0.765	93	34						
18-Jan	14.340	1.980	OOS	2.880	OOS	17.220	19.390	12.880	4.350	0.747	75	25						
19-Jan	10.666	1.921	OOS	3.250	OOS	13.816	17.590	8.820	4.560	0.684	63	33						
20-Jan	10.666	1.755	OOS	2.680	OOS	13.346	14.760	3.740	4.380	0.707	28	33						
21-Jan	10.666	1.642	OOS	2.530	OOS	13.196	14.960	8.770	4.760	0.567	66	36						
22-Jan	11.440	1.867	OOS	2.710	OOS	14.150	15.110	8.730	4.460	0.417	62	32						
23-Jan	11.360	2.001	OOS	2.880	OOS	14.240	15.750	8.960	4.690	0.492	63	33						
24-Jan	11.130	1.812	OOS	2.680	OOS	13.810	15.490	8.660	4.460	0.783	63	32						
25-Jan	10.540	1.621	OOS	2.550	OOS	13.090	15.010	11.060	4.390	0.755	84	34						
26-Jan	10.600	1.595	OOS	2.520	OOS	13.120	15.270	11.110	6.080	0.712	85	46						
27-Jan	11.060	1.908	OOS	2.750	OOS	13.810	16.050	11.330	6.210	0.659	82	45						
28-Jan	11.950	1.621	OOS	2.440	OOS	14.390	15.090	11.460	6.170	0.196	80	43						
29-Jan	10.720	1.776	OOS	2.690	OOS	13.410	15.180	11.390	6.070	0.323	85	45						
30-Jan	11.250	1.946	OOS	2.890	OOS	14.140	15.790	10.800	5.970	0.696	76	42						
31-Jan	10.830	1.687	OOS	1.920	OOS	12.750	15.290	11.340	6.280	0.746	89	49						
Total	330.637	55.611	0.000	82.100	0.000	412.737	467.350	332.245	153.557	19.837	2510	1160						
Week 1	10.079	1.811	#DIV/0!	2.666	#DIV/0!	12.744	14.404	9.685	5.079	0.771	76	40						
Week 2	10.277	1.768	#DIV/0!	2.581	#DIV/0!	12.859	14.446	12.533	4.556	0.586	98	36						
Week 3	11.038	1.818	#DIV/0!	2.763	#DIV/0!	13.801	15.910	10.269	4.476	0.651	75	33						
Week 4	11.154	1.775	#DIV/0!	2.647	#DIV/0!	13.801	15.396	10.187	5.209	0.573	74	38						
Monthly	10.666	1.794	#DIV/0!	2.648	#DIV/0!	13.314	15.076	10.718	4.953	0.640	81	37						
Min =	9.190	1.558	0.000	1.920	0.000	11.810	13.510	3.740	4.050	0.196	28	25						
Max =	14.340	2.036	0.000	3.250	0.000	17.220	19.390	13.580	6.280	0.976	105	49						

Monthly avg used due to malfunction of the the 6th and Canal totalizer. Totalizer readings inconsistent. Avg for the month used for these days.

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	January 2011			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jan															
2-Jan															
3-Jan	7.1	48	4720	7.1	122	4780	7.2	50	4280	7.1	75	4500	7.0	100	4480
4-Jan															
5-Jan	7.1		4100	7.1		4700	7.2		4220	7.1		4360	7.1		4580
6-Jan															
7-Jan	7.0	312	4300	7.1	315	4680	7.3	140	4580	7.0	185	4320	7.0	683	4640
8-Jan															
9-Jan															
10-Jan	7.0	338	3980	7.1	168	4840	7.2	512	4900	7.0	188	4540	7.0	270	3100
11-Jan															
12-Jan	7.0		4660	7.1		4260	7.3		4700	7.1		4640	7.1		4840
13-Jan															
14-Jan	7.0	105	4940	7.0	215	4840	7.2	60	4800	7.1	188	2220	7.1	132	4640
15-Jan															
16-Jan															
17-Jan															
18-Jan															
19-Jan	7.0	160	4400	7.1	228	4140	7.3	438	4980	7.1	488	4700	7.1	155	4800
20-Jan															
21-Jan	7.0	65	3760	7.1	455	4080	7.2	112	4820	7.1	422	4780	7.1	838	4820
22-Jan															
23-Jan															
24-Jan	7.1	22	4440	7.1	610	3780	7.1	378	4660	7.0	258	3620	7.2	715	4800
25-Jan															
26-Jan	7.1		4160	6.9		3140	7.1		4460	ns	ns	ns	7.2		5180
27-Jan															
28-Jan	7.1	202	4000	7.1	568	4140	7.3	162	4360	7.1	570	4180	7.2	508	4660
29-Jan															
30-Jan															
31-Jan	7.1	118	4460	7.1	1178	4560	7.2	505	4640	7.2	858	900	7.2	1005	4860
Total	84.7	1370	51920	85.1	3859	51940	86.6	2357	55400	77.9	3232	42760	85.1	4406	55400
Week 1	7.1	180	4373	7.1	219	4720	7.2	95	4360	7.1	130	4393	7.0	391	4567
Week 2	7.0	222	4527	7.1	192	4647	7.2	286	4800	7.1	188	3800	7.1	201	4193
Week 3	7.0	113	4080	7.1	342	4110	7.3	275	4900	7.1	455	4740	7.1	497	4810
Week 4	7.1	112	4200	7.0	589	3687	7.2	270	4493	7.1	414	3900	7.2	612	4880
Monthly	7.1	152	4327	7.1	429	4328	7.2	262	4617	7.1	359	3887	7.1	490	4617
Min =	7.0	22	3760	6.9	122	3140	7.1	50	4220	7.0	75	900	7.0	100	3100
Max =	7.1	338	4940	7.1	1178	4840	7.3	512	4980	7.2	858	4780	7.2	1005	5180

Print Date: 2/16/2011

Dissolved Oxygen -January 2011

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
1/1/2011	8.3	8.5	8.4	8.3	8.3	8.2	8.3		8.2
1/2/2011	8.1	8.3	8.0	8.2	8.2	8.0	8.4		8.0
1/3/2011	8.2	8.2	8.3	8.8	8.9	9.2	8.3		8.2
1/4/2011	9.3	9.0	8.9	8.8	8.8	8.5	9.0		8.5
1/5/2011	8.6	8.4	8.4	8.9	8.7	8.8	8.5		8.4
1/6/2011	8.8	8.9	8.8	9.0	9.0	9.1	8.3		8.3
1/7/2011	9.2	9.1	9.1	9.0	9.0	9.2	8.5		8.5
1/8/2011	9.3	9.2	9.2	9.1	9.2	9.4	8.7		8.7
1/9/2011	9.4	9.5	9.5	9.4	9.4	10.0	9.0		9.0
1/10/2011	10.0	9.7	10.0	9.9	9.9	9.8	9.3		9.3
1/11/2011	9.8	9.8	9.9	9.7	9.8	9.5	9.4		9.4
1/12/2011	9.4	9.4	9.4	9.4	8.9	9.3	8.7		8.7
1/13/2011	9.4	9.6	9.6	9.6	9.6	9.9	9.2		9.2
1/14/2011	9.9	9.9	9.8	9.9	9.7	9.7	9.7		9.7
1/15/2011	9.6	9.5	9.5	9.3	9.5	9.4	9.1		9.1
1/16/2011	9.3	9.3	9.3	9.3	9.3	9.3	8.8		8.8
1/17/2011	9.2	9.4	9.6	9.4	9.4	10.3	9.4		9.2
1/18/2011	10.1	10.4	9.9	9.7	10.0	10.3	8.8		8.8
1/19/2011	9.8	9.7	9.6	8.9	8.5	8.4	8.6		8.4
1/20/2011	8.5	8.4	8.4	8.4	8.7	8.6	8.8		8.4
1/21/2011	8.5	8.5	8.4	8.5	8.7	8.7	8.7		8.4
1/22/2011	8.9	8.9	8.4	8.4	8.5	8.4	9.6		8.4
1/23/2011	8.4	8.5	9.1	9.2	9.2	9.2	9.6		8.4
1/24/2011	9.4	9.2	9.3	9.6	9.4	9.2	10.0		9.2
1/25/2011	9.3	9.0	9.1	8.8	8.7	8.7	9.1		8.7
1/26/2011	8.7	8.7	8.5	8.2	8.1	8.3	8.8		8.1
1/27/2011	8.3	8.3	8.4	8.8	8.8	8.6	9.2		8.3
1/28/2011	8.6	8.6	8.6	8.4	8.5	8.3	9.0		8.3
1/29/2011	8.4	8.3	8.4	8.4	8.6	8.5	9.1		8.3
1/30/2011	8.5	8.5	8.5	8.4	8.4	8.5	9.5		8.4
1/31/2011	8.6	8.6	8.9	8.8	9.0	8.9	9.1		8.6
Min	8.10	8.20	8.00	8.20	8.10	8.00	8.3	Min	8.00
Max	10.10	10.40	10.00	9.90	10.00	10.30	10.0	Max	9.66
								Avg	8.64

	January 2011 Total Residual Chlorine						Daily Average
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	
1-Jan	0.00	0.07	0.01	0.01	0.02	0.01	0.02
2-Jan	0.01	0.09	0.02	0.03	0.01	0.01	0.03
3-Jan	0.01	0.02	0.02	0.02	0.01	0.03	0.02
4-Jan	0.01	0.01	0.01	0.02	0.01	0.02	0.01
5-Jan	0.00	0.01	0.01	0.00	0.01	0.00	0.01
6-Jan	0.03	0.01	0.00	0.00	0.01	0.00	0.01
7-Jan	0.02	0.02	0.03	0.00	0.03	0.01	0.02
8-Jan	0.03	0.02	0.02	0.02	0.02	0.01	0.02
9-Jan	0.01	0.04	0.02	0.01	0.01	0.00	0.02
10-Jan	0.03	0.01	0.01	0.01	0.01	0.02	0.02
11-Jan	0.02	0.02	0.00	0.00	0.00	0.06	0.02
12-Jan	0.01	0.01	0.01	0.03	0.00	0.00	0.01
13-Jan	0.00	0.01	0.01	0.03	0.01	0.03	0.02
14-Jan	0.01	0.02	0.01	0.01	0.01	0.01	0.01
15-Jan	0.00	0.02	0.01	0.02	0.01	0.00	0.01
16-Jan	0.01	0.03	0.02	0.01	0.01	0.02	0.02
17-Jan	0.02	0.02	0.02	0.03	0.00	0.02	0.02
18-Jan	0.04	0.01	0.00	0.00	0.00	0.10	0.03
19-Jan	0.00	0.03	0.03	0.04	0.04	0.02	0.03
20-Jan	0.02	0.00	0.02	0.03	0.02	0.09	0.03
21-Jan	0.00	0.02	0.19	0.15	0.01	0.17	0.09
22-Jan	0.03	0.00	0.00	0.04	0.00	0.01	0.01
23-Jan	0.00	0.00	0.00	0.01	0.01	0.03	0.01
24-Jan	0.00	0.01	0.02	0.01	0.01	0.04	0.02
25-Jan	0.03	0.00	0.01	0.00	0.00	0.03	0.01
26-Jan	0.06	0.00	0.02	0.02	0.00	0.00	0.02
27-Jan	0.01	0.00	0.00	0.01	0.00	0.00	0.00
28-Jan	0.00	0.01	0.00	0.00	0.00	0.00	0.00
29-Jan	0.00	0.02	0.00	0.00	0.03	0.03	0.01
30-Jan	0.02	0.00	0.01	0.02	0.00	0.01	0.01
31-Jan	0.03	0.00	0.01	0.01	0.01	0.01	0.01
Average	0.01	0.02	0.02	0.02	0.01	0.03	0.02
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	
Maximum	0.06	0.09	0.19	0.15	0.04	0.17	

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* January 2011

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 19.38	X 0.01	= 0.00
0.00	X 19.38	X 0.01	= 0.00
0.00	X 19.38	X 0.01	= 0.00
856.80	X 19.38	X 0.01	= 166.05
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 166.05

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	166.05
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

02/17/2011
Date

City of Reading 3-C Watershed *for the Month* January 2011

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

RECEIVED
EPA REGION III
JAN 28 2011
WATER PROTECTION DIVISION
(3WP00)

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

MONITORING PERIOD	MM/DD/YYYY		MM/DD/YYYY
FROM	12/01/2010	TO	12/31/2010

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	73	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.7	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.2	******	7.8		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1364	1638		******	11	12		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	1130	******		******	8.8	******		0	Daily	COMP24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	15.47	23.5		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.02	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		01/18/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	12/01/2010	TO	12/31/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.00995	******		******	<0.00007	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	4	******		0	Daily	GRAB
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1640	1858		******	13	14		0	Daily	COMP24
80082 1 1 Effluent Gross	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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	Ralph E. Johnson	610-655-6258		01/18/2011
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

	December 2010					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
28-Nov		15	8	10		13.87									
29-Nov		17	10	10		14.80									
30-Nov		18	14	10		17.80									
1-Dec	18.2	23	14	13	9.2	23.03	6.7	7.3	1.10		41	65	0.9	35	63
2-Dec	15.4	12	6	8	3.8	16.93	7.6	7.3	1.29		7	75	0.0	28	40
3-Dec	15.0	14	8	8	6.7	14.65	8.0	7.5	1.05		1	75	0.0	29	42
4-Dec	15.2	14	8	8	4.8	14.92	8.0	7.4	1.52		3	85	0.0	24	39
5-Dec	16.0	17	14	10	4.3	15.50	8.0	7.7	1.28		6	85	0.0	28	37
6-Dec	13.0	18	11	14	9.0	14.90	7.9	7.8	1.28		1	75	0.0	30	35
7-Dec	13.7	18	10	9	10.0	15.93	8.1	7.3	0.42		2	75	0.0	27	35
8-Dec	13.5	19	11	11	12.8	13.67	8.1	7.3	0.42		8	75	0.0	24	33
9-Dec	14.5	16	9	10	15.9	14.55	8.3	7.4	0.40		8	75	0.0	15	36
10-Dec	13.3	27	12	5	14.5	13.76	8.2	7.4	0.38		7	75	0.0	14	33
11-Dec	14.5	23	13	8	9.4	16.10	7.9	7.6	0.22		5	75	0.0	20	46
12-Dec	15.0	20	13	9	8.9	23.15	7.3	7.4	0.94		1	65	1.2	36	57
13-Dec	15.3	19	11	13	6.4	17.29	7.2	7.3	0.76		2	75	0.0	17	40
14-Dec	13.3	20	11	14	9.3	16.08	8.2	7.4	0.59		7	60	0.0	16	25
15-Dec	12.5	21	14	16	6.2	15.27	8.4	7.4	0.50		43	65	0.0	20	29
16-Dec	12.8	17	13	10	5.6	15.44	8.2	7.5	0.45		10	65	0.0	16	26
17-Dec	14.2	21	14	12	3.9	14.10	8.3	7.3	0.53		8	60	0.0	12	36
18-Dec	14.5	22	17	10	4.8	14.85	8.2	7.4	0.30		12	60	0.0	15	37
19-Dec	13.9	22	13	10	6.2	15.14	8.1	7.4	0.34		6	75	0.0	15	39
20-Dec	15.0	29	28	11	8.4	15.28	8.1	7.5	0.51		5	75	0.0	20	39
21-Dec	14.5	24	14	12	12.6	16.17	8.0	7.7	0.43		6	85	0.0	28	40
22-Dec	14.9	22	12	8	10.1	13.49	8.0	7.5	0.57		1	85	0.0	27	39
23-Dec	13.1	21	12	10	9.9	13.69	8.4	7.5	0.47		1	75	0.0	28	38
24-Dec	17.7	21	13	9	8.7	15.30	8.5	7.3	0.43		6	75	0.0	26	40
25-Dec	13.1	25	14	12	4.6	13.07	8.4	7.2	0.31		4	65	0.0	25	33
26-Dec	14.4	19	10	14	9.6	13.97	8.4	7.2	0.34		7	75	0.1	20	30
27-Dec	10.4	20	13	11	12.7	15.24	8.8	7.4	0.53		3	75	0.0	20	33
28-Dec	13.0	22	14	10	12.6	15.75	8.4	7.5	0.41		2	75	0.0	27	39
29-Dec	14.5	20	14	10	9.7	13.16	8.2	7.7	0.35		3	75	0.0	20	42
30-Dec	13.7	24	13	10	11.2	14.45	8.5	7.5	0.62		3	75	0.0	15	46
31-Dec	14.0	23	15	12	10.7	14.59	7.9	7.6	0.51		2	75	0.0	23	50
1-Jan	15.5	20	11	7	8.5	13.51	8.3	7.5	0.66		1	75			
						See DO profile					<				
TOTAL		633	394	327	272.5	479.4	###	230.7	19.25			2270	2.25	700	1197
Week 1	15.2	16	10	10	6.8	16.55	7.75	7.49	1.13		9	76	0	29	42
Week 2	14.2	20	11	10	11.0	16.37	7.88	7.42	0.53		5	71	0	20	39
Week 3	13.9	20	13	12	6.8	15.18	8.19	7.46	0.44		13	69	0	18	35
Week 4	13.8	22	14	10	9.7	14.36	8.41	7.35	0.44		3	75	0	25	36
Week 5		21	13	11											
Monthly	14.3	20	13	11	8.8	15.47	8.07	7.44	0.67		4	73	0	23	39
Only highlighted weekly averages have been adjusted as stated below.															
Min =	10.4	12	6	5	3.8	13.07	6.7	7.2	0.22		1	60	0.0	12	25
Max =	18.2	29	28	16	15.9	23.15	8.8	7.8	1.52		43	85	1.2	36	63
Weekly averages: 11/28 -12/4, 12/5-11, 12/12-18, 12/19-25 and 12/26 - 1/01/2011															
DISCHARGE LIMITATIONS															
Ave Monthly:			25	30	18		Min.	6.0			10,000	186			
Ave Weekly:			40	45			of	to							
Inst. Max:			50	60	24		5.0	9.0				465			

Print Date: 1/18/2011

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
28-Nov							1,735	925						1,157								
29-Nov							2,098	1,234						1,234								
30-Nov							2,672	2,078						1,485								
1-Dec	6,418	49,302	55,719	-8,128	201	47,591	4,418	2,689	5,269	31,324	36,593	18,477	55,070	2,497	8,523	605	2,043	2,647	3,896	837	6,544	1,771
2-Dec	7,580	48,917	56,497	-17,038		39,459	1,694	847	5,596	28,751	34,347	-14,555	19,792	1,130	9,617	610	1,777	2,387	3,212	1,154	5,599	529
3-Dec	5,082	49,490	54,572	-18,673		35,899	1,711	977	3,927	23,920	27,847	6,784	34,632	977	3,136	658	1,955	2,613	1,230	508	3,843	820
4-Dec	5,132	38,326	43,457	1,799		45,256	1,742	995	3,861	23,995	27,856	-1,133	26,723	995	3,294	660	1,975	2,634	1,212	432	3,847	597
5-Dec	8,795	40,896	49,691	24,623	178	74,314	2,198	1,810	6,453	21,392	27,845	44,375	72,220	1,293	6,162	627	1,652	2,279	1,782	719	4,061	555
6-Dec	5,254	39,982	45,236	-7,289		37,947	2,237	1,367	5,651	22,458	28,109	6,585	34,694	1,740	8,023	724	1,999	2,723	2,796	1,426	5,519	1,117
7-Dec	5,286	40,879	46,166	4,915		51,081	2,391	1,329	5,425	29,359	34,784	10,956	45,741	1,196	7,698	726	2,258	2,983	2,995	612	5,979	1,329
8-Dec	5,675	42,460	48,134	-7,741		40,393	2,166	1,254	5,224	21,663	26,887	25,951	52,839	1,254	13,971	689	2,253	2,942	3,368	4,899	6,310	1,459
9-Dec	5,449	35,616	41,065	-11,583	864	29,483	1,942	1,092	5,810	23,269	29,079	-8,339	20,740	1,213	8,073	592	2,074	2,666	2,946	2,914	5,612	1,929
10-Dec	5,918	55,455	61,374	-5,142		56,232	3,098	1,377	4,236	27,070	31,306	82,879	114,185	574	5,787	648	2,481	3,129	1,736	521	4,866	1,664
11-Dec	5,689	34,873	40,561	2,581		43,142	3,088	1,746	13,633	25,321	38,954	8,904	47,858	1,074	3,987	672	1,812	2,484	948	261	3,431	1,265
12-Dec	7,222	50,500	57,723	19,889		77,612	3,861	2,510	7,222	54,709	61,931	12,859	74,790	1,738	5,846	618	2,230	2,848	1,438	453	4,286	1,720
13-Dec	6,063	39,557	45,620	-3,036	464	42,584	2,740	1,586	4,676	35,337	40,014	19,604	59,618	1,875	5,604	606	1,503	2,109	2,621	1,041	4,730	926
14-Dec	6,359	42,138	48,497	876		49,373	2,682	1,475	6,156	26,851	33,006	12,417	45,423	1,878	6,489	623	1,999	2,622	994	3,244	3,617	1,251
15-Dec	7,453	43,195	50,648	-9,455		41,193	2,674	1,783	6,598	26,997	33,594	7,141	40,735	2,038	4,725	630	1,854	2,484	239	0	2,723	783
16-Dec	6,359	54,384	60,743	6,177	270	66,920	2,189	1,674	6,698	40,476	47,175	4,207	51,381	1,288	4,384	522	1,569	2,091	484	0	2,575	715
17-Dec	7,224	53,766	60,990	-21,726		39,265	2,469	1,646	6,371	28,019	34,390	-10,635	23,755	1,411	0	572	1,545	2,117	13	0	2,130	457
18-Dec	7,038	35,083	42,121	716		42,837	2,725	2,105	5,048	19,852	24,900	10,029	34,928	1,238	4,416	658	2,002	2,660	844	167	3,504	599
19-Dec	9,463	68,111	77,574	-7,237	129	70,336	2,778	1,641	9,564	56,893	66,457	-15,212	51,245	1,263	2,062	646	2,143	2,790	514	20	3,303	787
20-Dec	6,869	41,073	47,942	2,802		50,744	3,696	3,568	5,637	23,779	29,416	17,689	47,106	1,402	6,766	628	1,585	2,213	2,440	593	4,653	1,074
21-Dec	4,787	35,862	40,649	-4,487	417	36,162	3,237	1,888	3,923	65,179	69,102	-12,147	56,956	1,618	5,951	696	2,206	2,901	2,512	1,242	5,413	1,699
22-Dec	3,729	45,044	48,774	-15,856		32,918	2,475	1,350	1,899	37,510	39,408	-22,479	16,929	900	7,091	599	1,892	2,491	2,170	1,560	4,661	1,136
23-Dec	7,280	38,531	45,810	-2,931		42,879	2,398	1,370	11,647	19,082	30,729	25,691	56,420	1,142	3,520	669	2,486	3,155	1,573	489	4,728	1,133
24-Dec	7,860	39,323	47,183	-6,623		40,560	2,680	1,659	5,578	42,154	47,732	-9,564	38,168	1,148	23	725	1,990	2,715	-73	8	2,642	1,104
25-Dec	7,850	35,081	42,931	-722		42,209	2,725	1,526	7,310	22,962	30,272	7,515	37,787	1,308	0	816	2,201	3,017	1,425	0	4,442	499
26-Dec		43,385	43,385	2,125	37	45,510	2,214	1,165		32,780	32,780	7,221	40,001	1,631	1,459		2,565	2,565	1,208	90	3,773	1,118
27-Dec	5,533	34,965	40,498	4,887		45,385	2,542	1,652	5,970	21,574	27,544	27,707	55,251	1,398	7,123	1,082	1,942	3,024	1,505	1,096	4,529	1,614
28-Dec	5,817	31,025	36,842	-4,778	270	32,064	2,890	1,839	5,445	17,529	22,974	-4,623	18,351	1,314	6,906	647	1,830	2,477	1,808	469	4,285	1,655
29-Dec	6,697	52,274	58,971	2,491		61,462	2,195	1,537	5,596	77,694	83,290	-37,381	45,909	1,098	5,274	651	2,511	3,163	2,658	380	5,820	1,065
30-Dec	4,053	31,525	35,578	-2,646		32,933	2,892	1,567	3,378	10,561	13,939	9,165	23,103	1,205	7,470	601	1,828	2,430	2,434	339	4,864	1,350
31-Dec	3,984	32,714	36,698	931		37,628	2,799	1,825	1,500	168,715	170,215	-130,152	40,063	1,460	3,419	654	2,068	2,721	1,717	441	4,438	1,302
1-Jan	0	0	0	0	0	0	2,253	1,239						789								954
TOTAL	187,918	1,323,730	1,511,649	-80,279	2,831	1,431,369	81,545	50,851	175,303	1,107,174	1,282,477	99,933	1,382,410	42,294		19,854	62,227	82,081	54,645		136,726	35,023
Week 1	6,221	43,970	50,191	-2,827	190	47,364	2,296	1,392	5,169	25,886	31,055	10,213	41,267	1,354	6,636	659	1,951	2,610	2,446	812	5,056	960
Week 2	6,054	42,943	48,996	-594	664	48,403	2,446	1,425	6,708	30,603	37,311	22,039	59,350	1,192	7,108	635	2,050	2,686	2,007	1,905	4,693	1,459
Week 3	7,027	47,353	54,381	-4,744	272	49,637	2,763	1,826	6,263	37,314	43,576	153	43,729	1,638	4,043	622	1,843	2,465	1,006	289	3,472	874
Week 4	6,345	38,193	43,632	-3,414	154	40,218	2,855	1,858	6,308	27,656	33,063	4,495	37,558	1,254	3,732	756	2,129	2,778	1,374	530	4,151	1,180
							2,541	1,546						1,271								
Monthly	6,264	42,701	48,763	-2,590	315	46,173	2,630	1,640	5,843	35,715	41,370	3,224	44,594	1,364	5,381	662	2,007	2,648	1,763	836	4,411	1,130
Min =	3729	31025	35578	-21726	37	29,483	1,694	847	1,500	10,561	13,939	-130,152	16,929	574	0	522	1,503	2,091	-73	0	2,130	457
Max =	9463	68111	77574	24623	864	77,612	4,418	3,568	13,633	168,715	170,215	82,879	114,185	2,497	13,971	1,082	2,565	3,163	3,896	4,899	6,544	1,929
								4,170						7,130								3,000
								6,255						10,696								

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	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
28-Nov								
29-Nov								
30-Nov								
1-Dec	0.00009	0.00304	0.00010	0.01362	0.00010	0.01700	< 0.00007	< 0.01344
2-Dec								
3-Dec								
4-Dec								
5-Dec								
6-Dec								
7-Dec	0.00009	0.00209	0.00010	0.00929	0.00130	0.15092	0.00007	0.00930
8-Dec								
9-Dec								
10-Dec								
11-Dec								
12-Dec								
13-Dec								
14-Dec	0.00007	0.00178	0.00010	0.00980	0.00020	0.02469	< 0.00007	< 0.00939
15-Dec	0.00010	0.00244	0.00010	0.00900	0.00020	0.02288	< 0.00007	< 0.00891
16-Dec								
17-Dec								
18-Dec								
19-Dec								
20-Dec								
21-Dec	< 0.00007	< 0.00163	0.00030	0.02690	0.00040	0.04520	< 0.00007	< 0.00944
22-Dec								
23-Dec								
24-Dec								
25-Dec								
26-Dec								
27-Dec								
28-Dec	0.00010	0.00233	< 0.00007	< 0.00543	0.00008	0.00807	< 0.00007	< 0.00919
29-Dec								
30-Dec								
31-Dec								
1-Jan								
Total	0.00052	0.01331	0.00077	0.07403	0.00228	0.26876	0.00042	0.05968
Week 1	0.00009	0.00256	0.00010	0.01145	0.00070	0.08396	< 0.00007	< 0.01137
Week 2	0.00007	0.00178	0.00010	0.00980	0.00020	0.02469	< 0.00007	< 0.00939
Week 3	< 0.00009	< 0.00204	0.00020	0.01795	0.00030	0.03404	< 0.00007	< 0.00918
Week 4	0.00010	0.00233	< 0.00007	< 0.00543	0.00008	0.00807	< 0.00007	< 0.00919
Monthly	< 0.00009	< 0.00222	< 0.00013	< 0.01234	0.00038	0.04479	< 0.00007	< 0.00995
Min =	< 0.00007	< 0.00163	0.00007	0.00543	0.00008	0.00807	< 0.00007	< 0.00891
Max =	0.00010	0.00304	0.00030	0.02690	0.00130	0.15092	< 0.00007	< 0.01344
							0.00023	0.055
							0.00046	

Print Date: 1/18/2011

	December 2010				City of Reading Wastewater Treatment Plant																		Laboratory Process Control Data								
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent				Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
28-Nov																																
29-Nov																																
30-Nov																																
1-Dec	190	156	7.4	17.9	362	230	6.9	15.0	328	215	15.6	-48	109	22.9	280	324	38.5	6.9	20.38	220	75	22.2	6.6	46	33	18.2	300	7.2	36	15	13.5	200
2-Dec	298	220	7.6	24.0	490	288	7.1	17.8	451	274	19.1	-136	-116	25.6	315	158	44.7	7.3	15.02	ns	ns	ns	6.3	56	51	18.2		6.9	32	17	11.7	
3-Dec	220	170	7.5	28.5	600	290	7.2	23.7	517	264	24.8	-177	64	11.6	340	328	36.4	6.9	12.66	288	113	31.5	6.3	25	31	22.8	320	6.9	26	17	16.2	260
4-Dec	210	158	7.2	27.0	460	288	6.9	23.7	403	259	24.4	17	-11	11.3	420	248	35.7	6.9	12.92	285	57	26.7	6.2	40	20	20.4		6.8	28	15	13.6	
5-Dec	338	248	7.4	24.1	520	272	6.7	21.0	475	266	21.8	235	424	17.0	710	690	38.8	7.0	12.55	302	63	25.8	6.2	60	37	19.5		7.1	32	13	12.5	
6-Dec	225	242	7.7	31.0	470	264	7.2	23.5	417	259	25.1	-67	61	25.8	350	320	50.9	6.8	13.00	282	77	32.2	6.4	35	20	26.7	320	6.9	30	16	19.0	200
7-Dec	228	234	7.8	31.3	440	316	7.1	24.3	398	300	25.7	42	94	25.8	440	394	51.5	7.1	13.92	258	86	32.0	6.5	53	39	26.8		6.8	31	19	19.1	
8-Dec	252	232	7.9	30.6	490	250	7.4	26.0	441	246	26.9	-71	238	30.9	370	484	57.8	7.1	13.09	235	78	38.5	6.6	48	33	32.9	320	7.1	32	19	24.0	240
9-Dec	242	258	8.0	26.3	450	294	7.2	26.2	404	286	26.2	-114	-82	29.0	290	204	55.2	7.1	12.19	265	69	36.7	6.5	40	29	33.5		7.1	28	14	25.9	
10-Dec	285	204	6.7	31.2	590	288	7.0	26.4	535	273	27.3	-45	722	15.1	490	995	42.4	6.6	13.76	320	67	33.8	6.3	64	35	28.1	320	6.8	41	9	21.7	240
11-Dec	232	556	7.6	27.4	460	334	7.4	23.9	404	388	24.8	26	89	9.4	430	477	34.2	6.8	12.03	272	53	28.6	6.6	50	34	24.3		7.2	35	13	17.5	
12-Dec	200	200	7.6	17.1	360	390	7.4	15.9	327	351	16.1	113	73	8.2	440	424	24.3	6.9	21.15	195	67	19.0	6.6	45	48	17.1		7.1	34	15	13.1	
13-Dec	223	172	7.8	22.3	450	402	7.5	17.1	396	348	18.3	-26	170	22.8	370	518	41.1	6.4	13.80	203	75	22.7	6.3	53	43	19.0	220	6.9	35	19	13.4	180
14-Dec	250	242	8.0	24.5	430	274	7.6	20.4	393	267	21.2	7	101	8.1	400	368	29.3	7.2	14.80	248	112	24.9	6.6	50	44	21.6		7.5	34	23	17.0	
15-Dec	305	270	7.9	25.8	480	300	7.3	20.6	443	294	21.7	-83	62	2.1	360	356	23.8	6.9	13.72	262	88	22.8	6.4	40	22	18.7	220	7.0	34	20	13.1	220
16-Dec	262	276	7.8	21.5	610	454	7.2	17.6	536	416	18.4	54	37	4.3	590	453	22.7	6.7	13.60	285	69	20.4	6.2	60	45	16.5		6.6	32	17	11.4	
17-Dec	322	284	7.8	25.5	710	370	7.2	20.4	621	350	21.6	-221	-108	0.1	400	242	21.7	6.9	11.77	312	78	21.3	6.3	49	39	16.9	280	6.8	37	25	10.8	180
18-Dec	290	208	7.3	27.1	410	232	7.0	23.4	383	227	24.2	7	91	7.7	390	318	31.9	7.0	13.17	275	60	24.5	6.4	44	17	21.1		7.2	38	16	14.2	
19-Dec	372	376	7.3	25.4	680	568	6.9	21.4	618	529	22.2	-58	-121	4.1	560	408	26.3	7.2	15.06	275	61	21.8	6.6	34	23	18.6		7.3	34	19	12.4	
20-Dec	290	238	8.0	26.5	570	330	7.7	22.0	501	307	23.1	29	185	25.5	530	492	48.6	7.3	11.48	290	110	31.6	6.5	58	51	25.6	280	7.4	45	23	16.9	240
21-Dec	205	168	7.5	29.8	400	727	7.2	24.6	360	611	25.7	-40	-107	22.2	320	504	47.9	7.1	13.55	230	69	32.3	6.7	43	26	26.4		7.4	40	20	20.2	
22-Dec	165	84	7.7	26.5	550	458	6.8	23.1	467	377	23.8	-152	-215	20.8	315	162	44.6	7.0	12.53	252	65	30.1	6.5	36	22	22.6	300	6.7	34	17	18.0	240
23-Dec	345	552	7.1	31.7	420	208	7.0	27.1	406	272	28.0	-26	228	13.9	380	500	41.9	6.8	13.53	250	80	32.2	6.4	58	54	25.7		7.3	36	21	19.1	
24-Dec	310	220	7.7	28.6	500	536	7.2	25.3	454	459	26.1	-64	-92	-0.7	390	367	25.4	6.8	12.47	280	70	27.1	6.6	52	31	22.3		7.4	38	19	17.1	
25-Dec	378	352	7.9	39.3	440	288	7.5	27.6	427	301	30.0	-7	75	14.2	420	376	44.2	7.0	12.05	258	67	29.1	6.6	28	38	23.2		7.1	32	14	14.7	
26-Dec	ns	ns	7.8	ns	450	340	7.7	26.6	362	274	21.4	18	60	10.1	380	334	31.5	7.0	14.36	265	67	32.0	6.8	43	39	28.5		7.1	35	26	21.8	
27-Dec	228	246	7.8	44.6	470	290	7.3	26.1	410	279	30.7	50	281	15.2	460	560	45.9	6.7	11.83	230	62	31.1	6.4	46	40	26.6	280	7.1	32	17	22.0	220
28-Dec	250	234	7.1	27.8	400	226	7.1	23.6	365	228	24.6	-47	-46	17.9	318	182	42.5	6.9	12.09	295	90	26.7	6.6	68	63	24.6		6.6	32	17	19.8	
29-Dec	292	244	7.6	28.4	510	758	7.2	24.5	470	664	25.2	20	-298	21.2	490	366	46.4	7.2	15.04	295	68	29.3	6.7	58	43	24.6	280	6.9	34	19	18.1	240
30-Dec	180	150	7.0	26.7	400	134	7.1	23.2	351	138	24.0	-26	90	24.0	325	228	48.0	6.4	12.15	275	74	30.0	6.3	44	21	26.5		6.8	32	14	19.6	
31-Dec	170	64	7.2	27.9	375	1934	6.9	23.7	332	1538	24.6	8	-1176	15.5	340	362	40.1	6.8	13.27	270	69	27.1	6.4	40	20	23.2		6.9	32	13	17.9	
1-Jan																																
TOTAL	7757	7258	234.4	826.3	14947	12333	223	705.7	13395	11261	732.6	-782	881	481.6	12613	12142	1214.2	###	422.94	7972	2239	844.0	###	1466	1091	720.7	3440	217.7	1051	541	525.3	2660
Week 1	244	204	7.5	26.3	477	278	7.0	21.3	427	262	22.3	-19	89	20.0	408	352	42.4	7.0	14.35	273	79	28.4	6.3	45	33	21.8	313	6.9	31	16	15.1	220
Week 2	241	266	7.6	25.6	461	319	7.4	22.3	414	309	23.0	-16	187	17.6	399	496	40.6	6.9	14.40	248	74	29.2	6.5	50	38	25.2	287	7.1	34	16	18.9	220
Week 3	292	260	7.6	25.9	551	426	7.2	21.4	494	391	22.4	-44	6	9.4	450	396	31.8	7.0	13.19	276	76	25.0	6.4	47	32	20.5	260	7.1	37	20	14.1	213
Week 4	279	281	7.6	33.1	461	335	7.2	25.6	413	313	26.4	-33	42	13.1	380	354	39.4	6.9	12.69	261	72	29.8	6.6	47	41	24.8	290	7.0	34	19	18.9	230
Monthly	259	242	7.6	27.5	482	398	7.2	22.8	432	363	23.6	-25	28	15.5	407	392	39.2	6.9	13.64	266	75	28.1	6.5	47	35	23.2	287	7.0	34	17	16.9	222
Min =	165	64	6.7	17	360	134	6.7	15	327	138	15.6	-221	-1176	-0.7	280	158	21.7	6.4	11.48	195	53	19.0	6.2	25	17	16.5	220	6.6	26	9	10.8	180
Max =	378	556	8.0	45	710	1934	7.7	28	621	1538	30.7	235	722	30.9	710	995	57.8	7.3	21.15	320	113	38.5	6.8	68	63	33.5	320	7.5	45	26	25.9	260
									%Removal						%Removal																	
									95.27	97.10	62.81				94.98	97.31	77.56															

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		Final Settling								Filtrate		
chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
125	7.3	29	15	1	9.0	220			6.5	26.0	1100	108.0
140	7.1	28	14	10	4.4				6.9		1300	156.0
155	6.9	24	14	7	7.2	180			6.7		1000	162.0
130	7.1	24	14	5	5.2				6.7		1000	131.0
135	7.3	32	18	9	4.8				6.7	26.0	900	105.0
125	7.0	23	16	7	9.1	180			6.8		1300	231.0
145	6.9	27	17	11	10.4		8.2	0.434	6.7		1000	79.5
155	7.1	28	13	8	14.4	200			6.9		1600	561.0
145	7.2	26	13	15	16.9				6.9	107.0	1000	361.0
145	6.7	35	16	3	15.0	200			6.8		900	81.0
125	7.4	36	16	9	10.0				7.2		1000	65.5
90	7.3	46	22	14	8.8				6.9		1000	77.5
105	6.8	30	15	19	6.6	160			6.7	58.0	700	130.0
130	7.2	27	19	9	9.7		3.4	0.340	7.1		1000	500.0
135	7.2	24	17	7	6.8	160			6.5		1100	
145	6.8	24	21	9	5.4				6.8	74.0	1200	
155	7.2	31	19	15	4.0	180			6.8			
145	7.4	31	20	10	5.9				7.2		1500	56.8
120	7.3	33	20	16	5.9				7.2	50.0	800	7.8
125	7.3	32	40	15	10.3	180			8.0		700	61.3
165	7.2	35	20	13	13.2		9.8	0.452	7.2	56.0	800	167.0
140	7.2	25	13	7	10.7	180			6.6		1300	286.0
135	7.1	31	14	11	10.9				6.9		900	125.0
120	7.4	40	23	11	9.4				7.2		700	251.0
120	7.2	30	15	10	5.2				7.2			
110	7.3	20	14	13	10.4				6.9	28.0	1100	67.9
165	7.2	27	19	14	13.5	180	5.7	0.454	6.9		1300	200.0
195	7.4	25	18	7	13.0				6.4	47.0	1200	81.5
175	7.1	32	18	10	10.2	200			6.9		1200	86.5
155	7.0	31	14	7	11.5				6.6		1300	59.0
135	7.1	32	14	9	10.8				6.9		1000	129.0
4290	221.8	918	541	311	288.5	2220	27.1	1.680	213.5	472	30900	4327.3
136	7.1	27	15	7	7.1	193	8.2	0.434	6.7	26	1086	138.9
128	7.1	33	16	11	11.6	187	3.4	0.340	6.9	83	1029	253.7
141	7.2	30	22	12	7.4	173	9.8	0.452	7.1	60	1017	73.2
141	7.2	28	17	10	10.4	180	5.7	0.454	6.9	38	1083	168.6
138	7.2	30	17	10	9.3	185	6.8	0.420	6.9	52	1066	160.3
90	6.7	20	13	1	4.0	160	3.4	0.340	6.4	26	700	7.8
195	7.4	46	40	19	16.9	220	9.8	0.454	8.0	107	1600	561.0

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
	Flow (MGD)																	
28-Nov					OOS		13.870											
29-Nov					OOS		14.800											
30-Nov					OOS		17.800											
1-Dec	16.330	2.417	0.789	4.050	OOS	20.380	23.030	11.980	2.850	0.929	59	14						
2-Dec	11.970	1.817	0.764	3.050	OOS	15.020	16.930	12.190	4.660	0.887	81	31						
3-Dec	9.890	1.904	0.602	2.770	OOS	12.660	14.650	12.320	4.810	0.376	97	38						
4-Dec	9.990	1.814	0.580	2.930	OOS	12.920	14.920	12.420	4.630	0.395	96	36						
5-Dec	9.430	2.010	0.719	3.120	OOS	12.550	15.500	12.630	4.840	0.821	101	39						
6-Dec	10.200	3.692	0.674	2.800	OOS	13.000	14.900	12.320	4.740	0.740	95	36						
7-Dec	11.140	1.993	0.632	2.780	OOS	13.920	15.930	12.440	4.800	0.923	89	34						
8-Dec	10.390	1.777	0.726	2.700	OOS	13.090	13.670	12.730	4.630	1.047	97	35						
9-Dec	9.490	1.665	0.654	2.700	OOS	12.190	14.550	11.730	4.730	0.968	96	39						
10-Dec	11.270	1.961	0.744	2.490	OOS	13.760	13.760	11.530	4.860	0.771	84	35						
11-Dec	9.090	1.912	0.589	2.940	OOS	12.030	16.100	12.280	4.740	0.478	102	39						
12-Dec	16.820	2.718	0.758	4.330	OOS	21.150	23.150	12.150	1.480	0.701	57	7						
13-Dec	10.540	1.991	0.685	3.260	OOS	13.800	17.290	12.390	4.830	0.960	90	35						
14-Dec	11.750	1.935	0.729	3.050	OOS	14.800	16.080	12.400	4.980	0.778	84	34						
15-Dec	10.790	1.960	0.711	2.930	OOS	13.720	15.270	12.170	4.900	0.515	89	36						
16-Dec	10.690	1.871	0.729	2.910	OOS	13.600	15.440	12.860	2.080	0.438	95	15						
17-Dec	9.080	1.444	0.532	2.690	OOS	11.770	14.100	12.560	2.490	0.155	107	21						
18-Dec	10.260	2.094	0.689	2.910	OOS	13.170	14.850	12.200	2.530	0.353	93	19						
19-Dec	12.010	2.158	0.631	3.050	OOS	15.060	15.140	11.720	2.470	0.309	78	16						
20-Dec	8.640	1.874	0.688	2.840	OOS	11.480	15.280	12.320	5.260	1.159	107	46						
21-Dec	10.750	1.739	0.593	2.800	OOS	13.550	16.170	12.410	6.070	0.892	92	45						
22-Dec	9.820	1.984	0.762	2.710	OOS	12.530	13.490	12.620	5.920	0.654	101	47						
23-Dec	11.000	1.993	0.607	2.530	OOS	13.530	13.690	12.750	6.080	0.469	94	45						
24-Dec	9.430	1.993	0.510	3.040	OOS	12.470	15.300	13.040	5.800	0.004	105	47						
25-Dec	9.560	1.692	0.483	2.490	OOS	12.050	13.070	12.390	5.760	0.440	103	48						
26-Dec	11.560	1.938	0.608	2.800	OOS	14.360	13.970	12.980	5.830	0.159	90	41						
27-Dec	8.920	1.934	0.603	2.910	OOS	11.830	15.240	12.440	5.670	0.657	105	48						
28-Dec	9.300	1.956	0.739	2.790	OOS	12.090	15.750	12.920	5.800	0.690	107	48						
29-Dec	12.290	1.820	0.645	2.750	OOS	15.040	13.160	12.820	5.730	0.527	85	38						
30-Dec	9.450	1.905	0.625	2.700	OOS	12.150	14.450	13.640	5.830	0.689	112	48						
31-Dec	10.460	1.832	0.526	2.810	OOS	13.270	14.590	11.440	5.630	0.410	86	42						
1-Jan					OOS		13.510											
Total	332.310	61.794	20.326	90.630	0.000	422.940	492.930	384.790	145.430	19.294	2876	1103						
Week 1	11.279	2.235	0.680	3.071	#DIV/0!	14.350	16.551	12.329	4.476	0.724	88	33						
Week 2	11.336	1.994	0.698	3.067	#DIV/0!	14.403	16.371	12.173	4.321	0.815	87	32						
Week 3	10.317	1.877	0.653	2.876	#DIV/0!	13.193	15.179	12.320	3.686	0.546	94	28						
Week 4	9.941	1.927	0.616	2.753	#DIV/0!	12.694	14.359	12.734	5.837	0.439	101	46						
Monthly	10.720	1.993	0.656	2.924	#DIV/0!	13.643	15.465	12.413	4.691	0.622	93	36						
Min =	8.640	1.444	0.483	2.490	0.000	11.480	13.070	11.440	1.480	0.004	57	7						
Max =	16.820	3.692	0.789	4.330	0.000	21.150	23.150	13.640	6.080	1.159	112	48						

Due to incorrect totalizer readings, the monthly average was used for the highlighted days.

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	December 2010			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
28-Nov															
29-Nov															
30-Nov															
1-Dec	7.0	56	3440	7.1	347	3620	7.1	178	4000	6.9	93	3800	6.9	651	3360
2-Dec															
3-Dec	7.0		3560	7.1		4220	7.3		4320	7.0		4240	7.0		4340
4-Dec															
5-Dec															
6-Dec	7.0	349	3600	7.3	233	4180	7.1	511	3760	7.0	276	3560	6.9	298	4040
7-Dec															
8-Dec	7.1		3780	6.6		1760	7.1		4140	6.9		4060	7.0		4240
9-Dec															
10-Dec	6.9	269	3360	7.1	873	4260	7.3	700	4260	7.1	329	4760	7.0	980	3980
11-Dec															
12-Dec															
13-Dec	6.9	47	3420	7.1	100	4660	7.2	24	4520	na	na	na	6.9	327	4060
14-Dec															
15-Dec	7.0		3580	7.1		4100	7.2		4200	7.0		3400	7.0		4380
16-Dec															
17-Dec	7.0	122	2960	7.1	82	4460	7.2	207	4180	6.9	240	3120	7.0	478	4160
18-Dec															
19-Dec															
20-Dec	7.0	58	3980	7.0	402	4360	7.2	151	4400	7.1	182	4600	7.0	604	4420
21-Dec															
22-Dec	7.0	107	4000	6.9	884	3460	7.2	64	4500	7.0	222	4320	7.0	155	4140
23-Dec															
24-Dec															
25-Dec															
26-Dec															
27-Dec	7.0	207	3820	7.1	658	4280	7.2	58	4480	7.2	400	4160	7.2	909	4240
28-Dec															
29-Dec	7.0	169	3900	7.2	124	4520	7.0	82	4040	7.2	344	4100	7.2	182	4280
30-Dec															
31-Dec															
1-Jan															
Total	83.8	1384	43400	84.6	3703	47880	86.0	1975	50800	77.2	2086	44120	84.2	4584	49640
Week 1	7.0	203	3533	7.2	290	4007	7.2	345	4027	6.9	185	3867	7.0	475	3913
Week 2	6.9	158	3520	6.9	487	3560	7.2	362	4307	7.0	329	4410	7.0	654	4093
Week 3	7.0	90	3507	7.0	242	4307	7.2	179	4260	7.0	211	3707	7.0	541	4320
Week 4	7.0	157	3910	7.0	771	3870	7.2	61	4490	7.1	311	4240	7.1	532	4190
Monthly	7.0	154	3617	7.0	411	3990	7.2	219	4233	7.0	261	4011	7.0	509	4137
Min =	6.9	47	2960	6.6	82	1760	7.0	24	3760	6.9	93	3120	6.9	155	3360
Max =	7.1	349	4000	7.3	884	4660	7.3	700	4520	7.2	400	4760	7.2	980	4420

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	December 2010 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Dec	0.01	0.01	0.03	0.02	0.02	0.02	0.02	
2-Dec	0.01	0.02	0.13	0.02	0.07	0.01	0.04	
3-Dec	0.01	0.02	0.05	0.02	0.01	0.02	0.02	
4-Dec	0.03	0.03	0.05	0.03	0.03	0.04	0.03	
5-Dec	0.02	0.42	0.07	0.05	0.04	0.01	0.10	
6-Dec	0.01	0.16	0.03	0.00	0.00	0.02	0.04	
7-Dec	0.01	0.01	0.01	0.01	0.00	0.02	0.01	
8-Dec	0.04	0.01	0.00	0.00	0.01	0.02	0.01	
9-Dec	0.02	0.02	0.02	0.01	0.00	0.01	0.01	
10-Dec	0.01	0.03	0.01	0.00	0.01	0.03	0.02	
11-Dec	0.00	0.02	0.00	0.00	0.00	0.00	0.00	
12-Dec	0.02	0.02	0.01	0.00	0.00	0.08	0.02	
13-Dec	0.06	0.00	0.00	0.00	0.00	0.00	0.01	
14-Dec	0.00	0.01	0.01	0.00	0.01	0.01	0.01	
15-Dec	0.00	0.00	0.00	0.00	0.00	0.01	0.00	
16-Dec	0.00	0.00	0.01	0.00	0.00	0.00	0.00	
17-Dec	0.02	0.01	0.00	0.00	0.00	0.01	0.01	
18-Dec	0.00	0.00	0.01	0.01	0.00	0.03	0.01	
19-Dec	0.00	0.01	0.01	0.00	0.01	0.04	0.01	
20-Dec	0.01	0.01	0.01	0.01	0.01	0.00	0.01	
21-Dec	0.00	0.00	0.01	0.02	0.02	0.00	0.01	
22-Dec	0.01	0.01	0.01	0.07	0.01	0.01	0.02	0.01
23-Dec	0.03	0.02	0.02	0.02	0.03	0.01	0.02	
24-Dec	0.03	0.00	0.00	0.01	0.02	0.01	0.01	
25-Dec	0.00	0.06	0.02	0.02	0.01	0.35	0.08	
26-Dec	0.02	0.02	0.03	0.03	0.02	0.02	0.02	
27-Dec	0.03	0.02	0.02	0.01	0.00	0.04	0.02	
28-Dec	0.02	0.01	0.01	0.01	0.08	0.03	0.03	
29-Dec	0.07	0.00	0.00	0.01	0.02	0.04	0.02	
30-Dec	0.05	0.03	0.01	0.03	0.02	0.01	0.03	
31-Dec	0.02	0.02	0.02	0.01	0.00	0.01	0.01	
Average	0.02	0.03	0.02	0.01	0.01	0.03	0.02	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.07	0.42	0.13	0.07	0.08	0.35		

Dissolved Oxygen -December 2010

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
12/1/2010	7.3	7.1	6.9	6.7	6.9	7.3	6.9		6.7
12/2/2010	7.6	7.9	8.2	8.4	8.2	8.2	8.0		7.6
12/3/2010	8.1	8.2	8.2	8.0	8.0	8.0	8.1		8.0
12/4/2010	8.0	8.1	8.0	8.0	8.0	8.0	9.5		8.0
12/5/2010	8.0	8.2	8.2	8.2	8.1	8.1	8.4		8.0
12/6/2010	8.2	8.2	7.9	7.9	7.9	8.0	8.3		7.9
12/7/2010	8.2	8.1	8.1	8.1	8.1	8.1	8.7		8.1
12/8/2010	8.1	8.2	8.1	8.5	8.2	8.3	8.6		8.1
12/9/2010	8.4	8.5	8.3	8.4	8.3	8.3	8.6		8.3
12/10/2010	8.5	8.5	8.3	8.3	8.3	8.2	8.6		8.2
12/11/2010	8.1	8.2	8.1	7.9	8.0	8.0	8.2		7.9
12/12/2010	8.0	8.2	7.8	7.3	7.3	7.3	8.0		7.3
12/13/2010	7.6	7.3	7.2	7.6	7.8	8.0	9.0		7.2
12/14/2010	8.2	8.4	8.4	8.6	8.6	8.6	9.0		8.2
12/15/2010	8.5	8.4	8.5	8.4	8.4	8.4	8.8		8.4
12/16/2010	8.5	8.5	8.5	8.4	8.4	8.2	9.0		8.2
12/17/2010	8.4	8.3	8.3	8.4	8.4	8.4	8.7		8.3
12/18/2010	8.5	8.4	8.3	8.2	8.2	8.2	8.6		8.2
12/19/2010	8.1	8.3	8.4	8.3	8.2	8.2	8.7		8.1
12/20/2010	8.1	8.2	8.1	8.3	8.3	8.2	8.5		8.1
12/21/2010	8.3	8.4	8.2	8.0	8.1	8.0	8.6		8.0
12/22/2010	8.0	8.1	8.0	8.4	8.2	8.4	8.4		8.0
12/23/2010	8.4	8.5	8.4	8.5	8.5	8.6	8.9		8.4
12/24/2010	8.6	8.7	8.6	8.7	8.6	8.5	9.2		8.5
12/25/2010	8.4	8.5	8.6	8.5	8.5	8.6	8.7		8.4
12/26/2010	8.6	8.6	8.4	8.4	8.5	8.5	8.8		8.4
12/27/2010	8.8	8.9	8.8	8.9	9.1	8.9	9.3		8.8
12/28/2010	9.0	8.9	8.8	8.7	8.6	8.4	9.3		8.4
12/29/2010	8.3	8.3	8.7	8.2	8.3	8.3	8.5		8.2
12/30/2010	8.5	8.6	8.8	8.9	8.9	9.7	8.9		8.5
12/31/2010	8.0	8.2	7.9	8.9	8.8	8.4	8.4		7.9
Min	7.30	7.10	6.90	6.70	6.90	7.30	6.9	Min	6.70
Max	9.00	8.90	8.80	8.90	9.10	9.70	9.5	Max	8.80
								Avg	8.07

Discharge Monitoring Report Supplemental Bio-Solids Report ***for the Month*** December 2010

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	**=** 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 18.66	X 0.01	= 0.00
0.00	X 18.66	X 0.01	= 0.00
0.00	X 18.66	X 0.01	= 0.00
945.26	X 18.66	X 0.01	= 176.39
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	**=** 176.39

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	176.39
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Waste Water Superintendent
Title

610-655-6258
Telephone

01/20/11
Date

City of Reading 3-C Watershed *for the Month* December 2010

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

RECEIVED
EPA REGION III
DEC 22 2010
WATER PROTECTION DIVISION
(3WP00)

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	11/01/2010	TO	11/30/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	71	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.1	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.2	******	7.9		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1253	1339		******	10	10		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	647	******		******	5.1	******		0	Daily	COMP24
00610 1 1 Effluent Gross	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	15.19	19.96		******	******	******	******	0	Contin uous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.05	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		12/20/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	11/01/2010	TO	11/30/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.00984	******		******	<0.00007	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	2	******		0	Daily	GRAB
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1219	1237		******	10	10		0	Daily	COMP24
80082 1 1 Effluent Gross	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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	Ralph E. Johnson	610-655-6258	12/20/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code / NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* November 2010

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to Incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 20.45	X 0.01	= 0.00
0.00	X 20.45	X 0.01	= 0.00
0.00	X 20.45	X 0.01	= 0.00
853.08	X 20.45	X 0.01	= 174.45
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 174.45

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	174.45
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Utilities Manager
Title

610-655-6258
Telephone

12/20/10
Date

City of Reading 3-C Watershed *for the Month* November 2010

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

	November 2010					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
31-Oct	17.7	13	9	10	0.7	14.26	6.4	7.4	0.60		3	75	0.0	35	59
1-Nov	17.3	12	7	6	1.0	13.95	7.4	7.4	0.69		7	75	0.0	30	54
2-Nov	17.4	13	10	8	2.6	14.37	7.5	7.8	1.01		1	75	0.0	26	57
3-Nov	16.9	17	12	8	2.8	14.76	7.2	7.3	0.73		4	75	0.0	28	57
4-Nov	17.5	17	11	13	10.2	18.13	6.1	7.2	0.98		2	75	1.5	43	47
5-Nov	17.7	16	9	9	2.1	16.05	6.4	7.5	0.89		2	65	0.0	37	53
6-Nov	17.6	7	5	9	1.6	15.93	7.3	7.8	0.91		2	75	0.0	30	51
7-Nov	17.5	13	9	11	2.1	15.67	7.2	7.8	1.33		4	75	0.0	27	52
8-Nov	14.4	14	9	9	4.6	15.59	7.3	7.5	0.79		2	65	0.0	39	53
9-Nov	17.0	16	10	9	7.4	15.34	7.1	7.7	0.74		1	65	0.0	43	59
10-Nov	18.2	23	13	12	5.9	14.63	7.1	7.5	1.05		3	65	0.0	37	67
11-Nov	16.9	14	7	12	7.9	14.94	7.1	7.2	1.28		3	65	0.0	29	66
12-Nov	16.8	20	9	10	7.4	13.96	7.2	7.4	0.74		3	85	0.0	26	68
13-Nov	17.8	19	9	6	3.9	14.70	7.3	7.6	0.65		2	65	0.0	28	70
14-Nov	17.8	15	9	9	3.0	15.95	7.2	7.9	0.81		1	75	0.0	30	65
15-Nov	17.5	23	12	9	3.0	15.06	7.3	7.3	0.88		2	75	0.0	40	57
16-Nov	17.4	18	10	13	7.1	19.96	6.3	7.3	0.89		6	75	0.4	45	60
17-Nov	18.7	22	10	8	5.4	16.33	6.7	7.4	0.89		14	65	0.6	50	63
18-Nov	17.4	18	9	12	5.2	15.58	7.2	7.3	0.77		4	75	0.0	36	56
19-Nov	16.9	16	8	10	7.9	14.05	7.2	7.3	0.91		1	65	0.0	29	50
20-Nov	16.5	17	7	9	4.0	14.12	7.6	7.2	1.18		1	65	0.0	28	54
21-Nov	17.2	14	8	11	1.8	15.18	7.7	7.3	1.17		1	65	0.0	29	52
22-Nov	16.7	26	10	9	5.1	14.62	7.7	7.2	1.24		7	65	0.0	42	60
23-Nov	17.3	23	12	10	5.9	14.31	7.1	7.3	0.98		1	75	0.0	39	60
24-Nov	18.2	17	7	13	5.6	13.90	7.2	7.8	0.67		6	75	0.0	38	52
25-Nov	16.5	15	16	10	3.3	15.13	7.5	7.7	0.59		1	75	0.2	34	42
26-Nov	17.1	17	9	10	6.5	13.61	7.3	7.7	1.33		12	75	0.0	35	48
27-Nov	15.1	15	8	10	8.6	13.55	7.1	7.8	0.85		2	75	0.0	28	42
28-Nov	15.3	15	8	10	8.1	13.87	7.9	7.5	0.79		2	75	0.0	25	50
29-Nov	16.2	17	10	10	6.5	14.80	7.8	7.7	0.72		1	75	0.0	21	50
30-Nov	16.5	18	14	10	6.2	17.80	7.4	7.6	0.74		1	65	0.2	34	58
						See DO profile					<				
TOTAL		507	287	295	152.7	455.8	###	224.8	27.20			2140	3.0		
Week 1	17.4	14	9	9	3.2	15.55	7.02	7.54	0.93		3	74	0.2	32	53
Week 2	17.0	17	9	10	5.7	15.02	7.19	7.55	0.87		2	69		33	64
Week 3	17.4	18	9	10	4.9	15.75	7.16	7.28	0.96		4	69	0.1	37	56
Week 4	16.6	18	10	10	6.2	14.14	7.40	7.55	0.92		4	74	0.0	34	51
Monthly	17.0	17	10	10	5.1	15.19	7.22	7.49	0.91		2	71	0.1	34	56
Only highlighted weekly averages have been adjusted as stated below.															
Min =	14.4	7	5	6	1.0	13.55	6.1	7.2	0.59		1	65	0.0	21	42
Max =	18.7	26	16	13	10.2	19.96	7.9	7.9	1.33		14	85	1.5	50	70
Weekly averages: 10/31 -11/6, 11/7-13, 11/14-20, 11/21-27. 11/28 through 11/30 included in December's weekly averages.															
DISCHARGE LIMITATIONS															
Ave Monthly:			25	30	18		Min	6.0			10,000	186			
Ave Weekly:			40	45			of	to							
Inst. Max:			50	60	24		5.0	9.0				465			

Print Date: 12/15/2010

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
31-Oct	5,986	41,775	47,761	-11,427	134	36,335	1,546	1,070	4,441	31,415	35,855	-19,636	16,219	1,189	0	579	1,846	2425	766	195	3,191	80
1-Nov	4,187	35,392	39,579	-11,863		27,716	1,396	814	2,973	21,085	24,057	-4,618	19,440	698	4,750	571	1,657	2228	1,333	563	3,561	120
2-Nov	5,315	41,306	46,621	-2,598		44,023	1,558	1,198	5,438	23,882	29,321	4,940	34,261	959	6,156	507	1,495	2,001	1,329	1,052	3,330	313
3-Nov	5,551	59,178	64,730	-13,426		51,303	2,093	1,477	7,985	36,174	44,159	1,909	46,068	985	7,543	589	1,809	2,398	1,424	657	3,822	346
4-Nov	7,206	40,297	47,503	9,939	331	57,442	2,570	1,663	7,566	32,007	39,573	24,822	64,395	1,965	6,735	631	1,750	2,381	2,986	640	5,366	1,542
5-Nov	5,468	43,451	48,920	-2,648		46,272	2,142	1,205	4,514	23,464	27,978	13,887	41,865	1,205	4,283	612	1,834	2,446	1,091	1,497	3,537	284
6-Nov	8,936	20,179	29,116	7,457		36,573	930	664	6,962	15,170	22,132	7,896	30,028	1,196	3,532	681	1,653	2,334	851	568	3,186	214
7-Nov	5,054	26,113	31,167	-4,125	280	27,042	1,699	1,176	5,307	26,528	31,835	6,025	37,859	1,438	5,519	728	1,874	2,601	1,336	63	3,937	272
8-Nov	5,119	39,990	45,109	320		45,430	1,820	1,170	5,166	23,514	28,680	6,838	35,518	1,170	6,215	544	1,640	2,184	2,762	870	4,946	602
9-Nov	4,927	49,585	54,513	9,539		64,051	2,047	1,279	4,927	36,925	41,852	1,318	43,171	1,151	5,524	610	2,553	3,163	2,883	1,044	6,046	940
10-Nov	9,068	42,434	51,502	-14,567		36,935	2,806	1,586	9,134	15,559	24,693	-8,375	16,318	1,464	7,110	566	1,901	2,467	2,748	1,719	5,215	717
11-Nov	6,629	60,718	67,347	-12,553	731	54,794	1,744	872	6,353	47,541	53,894	-9,450	44,444	1,495	8,293	580	2,752	3,332	4,446	2,624	7,778	981
12-Nov	5,124	55,292	60,416	-2,714		57,702	2,329	1,048	7,259	38,140	45,399	10,424	55,823	1,164	8,649	551	2,392	2,943	2,371	1,653	5,314	866
13-Nov	6,035	59,809	65,844	16,436		82,281	2,329	1,103	4,694	47,067	51,761	14,368	66,129	736	4,137	601	2,795	3,397	1,891	1,610	5,287	479
14-Nov	4,804	51,979	56,783	-6,274	99	50,509	1,995	1,197	6,773	35,115	41,888	528	42,417	1,197	4,287	668	2,507	3,174	719	832	3,893	402
15-Nov	6,755	53,163	59,919	-13,857		46,062	2,889	1,507	5,269	27,540	32,810	18,955	51,765	1,130	6,714	635	1,970	2,605	2,341	1,081	4,946	371
16-Nov	7,091	38,571	45,661	-6,588		39,074	2,996	1,665	17,127	20,697	37,823	1,493	39,316	2,164	7,071	679	1,882	2,561	2,293	1,383	4,854	1,180
17-Nov	7,006	39,504	46,510	-16,514		29,995	2,996	1,362	7,056	25,782	32,837	-13,218	19,620	1,090	14,432	620	1,435	2,055	2,152	2,034	4,207	740
18-Nov	6,321	37,405	43,726	-4,814	548	38,912	2,339	1,169	6,154	69,280	75,434	-23,166	52,268	1,559	9,367	632	1,797	2,429	2,188	1,528	4,617	672
19-Nov	6,441	43,000	49,442	-382		49,059	1,875	937	7,006	30,741	37,747	12,795	50,542	1,172	5,884	723	2,553	3,276	2,029	893	5,305	930
20-Nov	6,775	43,125	49,900	5,486		55,387	2,002	824	5,317	48,373	53,690	3,700	57,390	1,060	4,916	615	2,414	3,029	295	387	3,323	471
21-Nov	9,660	42,726	52,386	-19,997	277	32,389	1,772	1,013	5,994	69,816	75,810	-32,779	43,031	1,393	5,930	612	2,127	2,739	1,934	323	4,673	225
22-Nov	6,333	55,101	61,434	-36,664		24,770	3,170	1,219	6,504	104,059	110,563	-92,949	17,614	1,097	7,266	613	2,240	2,853	-739	1,066	2,115	623
23-Nov	5,588	46,068	51,656	-38,895	252	12,760	2,745	1,432	6,080	44,261	50,341	-34,773	15,567	1,193	4,804	563	2,087	2,650	-1,489	1,537	1,161	701
24-Nov	6,471	40,798	47,268	-2,522		44,746	1,971	811	11,581	35,007	46,588	-2,457	44,132	1,507	1,138	614	1,632	2,246	948	485	3,194	650
25-Nov	8,396	18,220	26,616	49,119		75,735	1,893	2,019	6,440	43,727	50,167	25,781	75,948	1,262	0	642	1,996	2,637	1,864		4,501	413
26-Nov	4,872	30,114	34,986	-3,326		31,660	1,930	1,022	5,465	43,498	48,963	-29,045	19,918	1,135	4,570	595	2,125	2,720	1,599	651	4,319	738
27-Nov	4,228	33,784	38,012	-4,705		33,307	1,695	904	2,168	51,582	53,750	-31,685	22,066	1,130	4,706	538	1,953	2,491	1,610	633	4,101	976
28-Nov	6,147	37,635	43,782	-12,011	293	31,771	1,735	925	7,063	196,193	203,256	-180,131	23,125	1,157	7,000	635	2,127	2,762	1,446	1,158	4,208	931
29-Nov	7,291	52,248	59,539	-11,981		47,558	2,098	1,234	5,025	59,100	64,125	-12,676	51,449	1,234	6,989	579	1,987	2,566	1,466	1,635	4,032	807
30-Nov	7,182	42,868	50,049	-11,314		38,735	2,672	2,078	5,810	40,553	46,363	-14,268	32,095	1,485	5,745	668	1,980	2,649	1,723	833	4,372	913
									Monthly mass average used for Grit chamber due to no sample for that day.													
TOTAL	189,980	1,280,053	1,470,033	-156,042	2,811	1,313,991	64,237	36,578	195,110	1,332,379	1,527,490	-333,907	1,193,583	37,591	179,265	18,403	60,913	79,316	49,830	31,018	129,145	19,419
Week 1	5,960	37,988	43,948	-2,466	306	41,481	1,748	1,156	5,821	25,473	31,293	7,838	39,131	1,171	5,503	617	1,724	2,341	1,478	720	3,820	441
Week 2	5,958	51,401	57,359	-1,402	415	55,957	2,111	1,176	6,329	34,837	41,167	2,236	43,403	1,231	6,316	589	2,363	2,951	2,546	1,479	5,497	713
Week 3	7,150	42,499	49,649	-8,095	412	41,554	2,442	1,237	7,703	41,747	49,450	-4,603	44,848	1,339	7,759	645	2,025	2,670	1,890	1,090	4,561	656
Week 4	6,005	37,388	43,393	-7,001	272	36,393	2,168	1,203	6,472	74,047	80,518	-49,323	31,196	1,245	4,212	600	2,023	2,623	749	922	3,371	719
Monthly	6,333	42,668	49,001	-5,201	351	43,800	2,141	1,219	6,504	44,413	50,916	-11,130	39,786	1,253	5,975	613	2,030	2,644	1,661	1,070	4,305	647
Min =	4187	18220	26616	-38895	99	12,760	930	664	2,168	15,170	22,132	-180,131	15,567	698	0	507	1,435	2,001	-1,489	63	1,161	120
Max =	9660	60718	67347	49119	731	82,281	3,170	2,078	17,127	196,193	203,256	25,781	75,948	2,164	14,432	728	2,795	3,397	4,446	2,624	7,778	1,542
								4,170						7,130								3,000
								6,255						10,696								

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	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)			Eff. Mercury (Hg)		
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L		lbs/day	mg/L		lbs/day
31-Oct										
1-Nov										
2-Nov										
3-Nov										
4-Nov	0.00040	0.01441	0.00050	0.05757	0.00170	#	0.25698	< 0.00007	<	0.01058
5-Nov										
6-Nov										
7-Nov										
8-Nov	0.00010	0.00233	0.00010	0.00800	0.00020		0.02065	< 0.00007	<	0.00910
9-Nov	0.00010	0.00226	0.00009	0.00950	0.00050		0.06405	< 0.00007	<	0.00896
10-Nov										
11-Nov										
12-Nov										
13-Nov										
14-Nov										
15-Nov										
16-Nov	0.00010	0.00273	0.00010	0.00941	0.00040		0.04854	< 0.00007	<	0.01165
17-Nov										
18-Nov										
19-Nov										
20-Nov										
21-Nov										
22-Nov										
23-Nov	0.00020	0.00447	0.00010	0.00903	0.00010		0.00255	< 0.00007	<	0.00835
24-Nov										
25-Nov										
26-Nov										
27-Nov										
28-Nov										
29-Nov										
30-Nov	0.00020	0.00499	0.00020	0.01715	0.00020		0.02213	< 0.00007	<	0.01039
Total	0.00110	0.03118	0.00109	0.11065	0.00310		0.41490	0.00042		0.05904
Week 1	0.00040	0.01441	0.00050	0.05757	0.00170		0.25698	< 0.00007	<	0.01058
Week 2	0.00010	0.00229	0.00010	0.00875	0.00035		0.04235	< 0.00007	<	0.00903
Week 3	0.00010	0.00273	0.00010	0.00941	0.00040		0.04854	< 0.00007	<	0.01165
Week 4	0.00020	0.00447	0.00010	0.00903	0.00010		0.00255	< 0.00007	<	0.00835
Monthly	0.00018	0.00520	0.00018	0.01844	0.00052		0.06915	< 0.00007	<	0.00984
Min =	0.00010	0.00226	0.00009	0.00800	0.00010		0.00255	< 0.00007	<	0.00835
Max =	0.00040	0.01441	0.00050	0.05757	0.00170		0.25698	< 0.00007	<	0.01165
								0.00023		0.055
								0.00046		

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	November 2010				City of Reading Wastewater Treatment Plant															Laboratory Process Control Data										
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent				Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
31-Oct	275	204	7.0	26.6	500	376	7.0	22.1	453	340	23.0	-108	-186	7.3	345	154	30.3	6.5	12.63	272	71	24.3	6.4	33	21	18.3		6.9	24	11	9.4	
1-Nov	200	142	7.6	27.3	470	280	7.1	22.0	411	250	23.2	-123	-48	13.8	288	202	37.0	7.2	11.54	238	57	26.3	6.8	35	17	19.1	280	7.5	25	9	9.5	200
2-Nov	258	264	6.9	24.6	550	318	6.5	19.9	487	306	20.9	-27	52	13.9	460	358	34.8	6.5	11.48	292	68	26.8	6.2	42	25	20.1		6.5	36	15	11.7	
3-Nov	260	374	7.7	27.6	710	434	7.1	21.7	618	422	22.9	-128	18	13.6	490	440	36.5	6.9	12.55	268	55	28.7	6.5	39	27	21.7	300	7.0	31	17	12.4	220
4-Nov	200	210	7.0	17.5	350	278	6.8	15.2	314	262	15.7	66	164	19.8	380	426	35.5	6.8	18.13	180	58	20.9	6.5	40	27	17.2		7.2	28	18	14.1	
5-Nov	235	194	7.7	26.3	500	270	7.0	21.1	444	254	22.2	-24	126	9.9	420	380	32.1	6.9	13.21	242	62	23.3	6.5	23	9	18.1	260	7.0	25	11	10.5	180
6-Nov	362	282	7.5	27.6	282	212	7.0	23.1	303	230	24.3	77	82	8.8	380	312	33.1	7.0	11.54	230	66	23.8	6.3	25	16	18.1		6.9	20	12	10.4	
7-Nov	200	210	7.4	28.8	315	320	7.0	22.6	288	294	24.0	-38	56	12.4	250	350	36.4	6.7	12.97	210	164	25.8	6.5	68	29	19.8		7.0	34	12	11.8	
8-Nov	220	222	7.5	23.4	500	294	7.1	20.5	437	278	21.2	3	66	26.7	440	344	47.9	6.8	12.38	285	68	33.0	6.5	36	29	22.8	380	7.4	24	10	14.7	220
9-Nov	218	218	7.7	27.0	470	350	7.1	24.2	426	327	24.7	74	10	22.5	500	337	47.2	7.2	15.36	380	55	30.0	7.0	35	18	23.0		6.8	26	12	15.5	
10-Nov	415	418	7.7	25.9	480	176	7.1	21.5	467	224	22.4	-132	-76	24.9	335	148	47.3	7.0	13.22	298	80	30.5	6.7	50	36	25.1	280	7.3	44	19	15.7	280
11-Nov	288	276	7.1	25.2	470	368	6.7	21.3	442	354	21.9	-82	-62	29.2	360	292	51.1	7.9	18.25	325	74	31.0	6.6	49	30	25.1		7.1	30	17	16.4	
12-Nov	240	340	7.5	25.8	490	338	7.0	21.2	450	338	21.9	-20	78	17.7	430	416	39.6	7.1	16.09	295	88	28.5	6.4	53	47	25.1	320	7.0	38	22	16.6	240
13-Nov	270	210	7.8	26.9	460	362	7.4	21.5	432	340	22.3	108	94	12.4	540	434	34.7	6.8	18.27	290	51	25.2	6.5	40	24	19.6		7.3	30	7	11.5	
14-Nov	200	282	7.9	27.8	450	304	7.5	21.7	407	300	22.8	-45	4	5.1	362	304	27.9	6.9	16.73	242	56	23.2	6.9	50	35	18.7		7.5	22	7	11.1	
15-Nov	300	234	7.9	28.2	610	316	7.1	22.6	546	299	23.7	-126	173	21.4	420	472	45.1	7.0	13.15	295	63	30.5	6.8	39	17	23.9	300	7.1	32	13	14.0	240
16-Nov	260	628	7.6	24.9	410	220	7.0	20.0	376	312	21.1	-54	12	18.9	322	324	40.0	7.3	14.55	222	60	27.9	6.8	23	33	22.4		7.4	38	15	15.0	
17-Nov	280	282	7.3	24.8	570	372	6.9	20.7	493	348	21.8	-175	-140	22.8	318	208	44.6	6.7	11.31	232	48	27.2	6.3	32	10	21.1	330	6.7	36	10	13.0	240
18-Nov	265	258	8.7	26.5	460	852	7.2	22.1	416	717	23.1	-46	-220	20.8	370	497	43.9	6.7	12.61	248	81	34.6	6.9	34	25	26.2		6.7	34	17	16.6	
19-Nov	285	310	7.9	32.0	470	336	7.3	27.9	433	331	28.7	-3	112	17.8	430	443	46.5	7.3	13.68	245	66	33.6	6.5	40	35	27.7	300	7.0	20	17	17.2	220
20-Nov	302	237	7.2	27.4	452	507	7.1	25.3	423	456	25.7	47	31	2.5	470	487	28.2	7.1	14.13	238	61	26.5	6.6	40	23	20.6		7.2	31	12	13.3	
21-Nov	390	242	7.7	24.7	470	768	7.4	23.4	453	655	23.7	-173	-283	16.7	280	372	40.4	7.0	13.87	280	72	26.9	6.6	38	18	18.9		7.2	24	13	10.6	
22-Nov	ns	ns	7.8	ns	610	1152	7.2	24.8	544	980	25.3	-4	-596	20.8	540	384	46.1	6.9	5.50	322	60	33.5	6.5	57	39	25.7	280	7.1	24	11	16.1	200
23-Nov	250	272	8.1	25.2	510	490	7.1	23.1	458	447	23.5	42	163	22.0	500	610	45.5	6.9	3.06	272	52	28.6	6.7	43	20	22.5		7.4	35	16	15.2	
24-Nov	295	528	7.8	28.0	620	532	7.3	24.8	539	531	25.6	-29	-28	10.8	510	503	36.4	6.8	10.52	ns	ns	ns	6.2	48	52	24.7	320	6.5	34	27	16.4	240
25-Nov	352	270	7.8	26.9	220	528	7.4	24.1	250	470	24.7	460	242	17.5	710	712	42.2	6.7	12.79	268	62	24.6	6.4	44	23	17.3		7.1	32	15	10.2	
26-Nov	230	258	7.4	28.1	360	520	7.1	25.4	334	467	25.9	-32	-277	15.3	302	190	41.2	7.0	12.57	248	61	33.0	6.5	37	22	26.2		6.7	24	12	16.2	
27-Nov	195	100	7.4	24.8	410	626	7.1	23.7	365	516	23.9	-45	-304	15.5	320	212	39.4	6.7	12.48	242	60	28.5	6.5	28	19	23.4		6.9	28	13	16.5	
28-Nov	275	316	7.4	28.4	460	2398	7.1	26.0	420	1951	26.5	-115	-1729	13.9	305	222	40.4	6.7	12.49	248	61	30.9	6.6	35	26	26.3		7.0	24	16	17.2	
29-Nov	325	224	7.9	25.8	610	690	7.3	23.2	551	593	23.7	-111	-117	13.6	440	476	37.3	7.1	12.96	282	78	29.5	6.6	51	57	23.8	300	7.1	30	21	15.8	220
30-Nov	288	233	7.9	26.8	500	473	7.3	23.1	452	419	23.9	-102	-129	15.6	350	290	39.5	6.8	13.27	250	60	27.0	6.3	62	52	22.0		7.2	48	15	14.4	
TOTAL	7858	8034	228.7	764.2	14239	15084	213	677.7	12981	13672	701.3	-759	-2527	496.5	12222	11145	1197.8	###	390.65	7667	1947	819.8	###	1236	840	666.2	3650.0	211.6	907	431	419.6	2700.0
Week 1	245	239	7.4	25.7	454	302	6.9	20.8	409	288	21.9	-28	64	13.2	381	353	35.1	6.9	13.06	237	76	25.1	6.5	39	21	19.2	280.0	7.0	28	13	11.5	200.0
Week 2	264	281	7.6	26.0	474	313	7.1	21.7	437	309	22.4	-13	16	19.8	424	325	42.2	7.1	15.76	302	67	28.8	6.6	45	31	22.8	326.7	7.2	31	13	14.5	246.7
Week 3	297	313	7.8	26.9	492	482	7.2	23.1	449	445	24.0	-76	-45	17.3	373	400	41.2	7.0	13.33	251	64	29.6	6.6	35	23	23.0	310.0	7.0	31	14	14.2	233.3
Week 4	266	291	7.7	26.9	456	892	7.2	24.6	416	766	25.1	40	-361	16.5	455	405	41.6	6.8	9.92	267	59	29.9	6.5	42	29	23.7	300.0	7.0	29	16	15.4	220.0
Monthly	271	277	7.6	26.4	475	503	7.1	22.6	433	456	23.4	-25	-84	16.5	407	372	39.9	6.9	13.02	264	67	28.3	6.5	41	28	22.2	304.2	7.1	30	14	14.0	225.0
Min =	195	100	6.9	18	220	176	6.5	15	250	224	15.7	-175	-1729	2.5	250	148	27.9	6.5	3.06	180	48	20.9	6.2	23	9	17.2	260.0	6.5	20	7	9.5	180.0
Max =	415	628	8.7	32	710	2398	7.5	28	618	1951	28.7	460	242	29.2	710	712	51.1	7.9	18.27	380	164	34.6	7.0	68	57	27.7	380.0	7.5	48	27	17.2	280.0
									%Removal						%Removal																	
									96.09	97.84	78.23				95.85	97.35	87.25															

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		Final Settling								Filtrate		
chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
135	7.1	26	14	9	1.8				6.7	24.0	0	35.0
135	7.4	26	12	7	1.4	160			7.4		800	94.8
165	7.0	27	16	7	3.0				6.5		1100	188.0
160	6.9	26	15	8	3.0	160	9.3	0.295	6.8		1400	122.0
140	6.8	29	20	12	9.5				7.1	59.0	1200	114.0
140	6.9	19	13	2	2.3	120			7.0		1600	559.0
130	7.0	33	21	9	1.6				7.0		1100	177.0
125	7.1	27	14	9	2.5				7.1	66.0	1300	14.9
130	7.0	26	15	7	4.7	140			7.1		900	126.0
145	6.3	23	14	7	7.0		9.6	0.336	6.6		900	170.0
160	7.1	33	20	14	5.9	200			7.3		1100	266.0
155	7.1	30	12	14	7.4				7.1	97.0	1100	348.0
160	7.1	32	14	17	7.1	160			6.9		1700	325.0
155	7.3	29	14	2	3.7				7.1		1100	428.0
135	7.5	25	13	11	3.5				7.7	23.0	1000	194.0
130	6.9	38	16	13	2.9	180			7.4		1000	161.0
140	7.2	31	13	15	6.8		10.8	0.361	7.4		900	176.0
125	6.7	33	18	4	5.2	200			6.5		2100	296.0
145	6.9	27	12	9	6.9				6.8	76.0	1300	212.0
135	7.1	32	12	17	8.0	140			6.9		1700	258.0
155	7.3	28	12	7	4.6				7.2		1500	118.0
130	7.3	24	14	6	2.5				7.3	42.0	900	49.0
130	7.1	30	15	7	6.9	140			7.1		1200	176.0
145	7.1	32	16	5	6.1		8.8	0.400	7.4	42.0	800	256.0
150	6.6	32	14	17	6.6	160			6.3		700	298.0
135	7.2	26	28	6	3.1				7.1		0	ns
120	6.9	30	12	11	7.4				6.9		800	114.0
120	7.1	32	13	12	7.7				6.9		1100	148.0
140	7.2	21	12	8	8.3				6.9	46.0	1100	182.0
125	7.2	29	13	12	6.9	140			7.0		1000	234.0
135	6.9	30	21	9	6.6		10.5	0.435	6.8		800	116.0
4195.0	211.1	860	454	284	158.8	1900.0	49.0	1.827	210.4	451.0	33200.0	5920.7
142.1	7.0	27	16	8	3.3	146.7	9.3	0.295	7.0	62.5	1214.3	181.4
148.6	7.1	28	15	10	5.6	166.7	9.6	0.336	7.1	60.0	1114.3	265.3
137.1	7.1	30	14	10	5.3	173.3	10.8	0.361	7.1	59.0	1342.9	181.4
134.3	7.0	29	16	9	6.6	150.0	8.8	0.400	6.9	44.0	814.3	195.7
139.8	7.0	29	15	9	5.3	158.3	9.8	0.365	7.0	56.4	1106.7	204.2
120.0	6.3	19	12	2	1.4	120.0	8.8	0.295	6.3	23.0	0.0	14.9
165.0	7.5	38	28	17	9.5	200.0	10.8	0.435	7.7	97.0	2100.0	559.0

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
	Flow (MGD)																	
31-Oct	10.018	1.735	0.643	2.610		12.628	14.260	12.110	3.420	0.667	95.898	27.083						
1-Nov	9.029	1.787	0.697	2.510		11.539	13.950	12.750	4.110	0.712	110.495	35.618						
2-Nov	9.005	1.671	0.694	2.470		11.475	14.370	12.290	4.020	0.671	107.102	35.033						
3-Nov	9.994	1.833	0.734	2.560		12.554	14.760	11.910	3.980	0.646	94.870	31.703						
4-Nov	13.805	2.645	0.779	4.320		18.125	18.125	12.500	4.000	0.673	68.966	22.069						
5-Nov	10.420	1.780	0.635	2.790		13.210	16.050	12.300	5.620	0.321	93.111	42.544						
6-Nov	8.580	1.847	0.549	2.960		11.540	15.930	12.960	5.610	0.385	112.305	48.614						
7-Nov	9.940	1.941	0.741	3.030		12.970	15.670	12.670	5.650	0.509	97.687	43.562						
8-Nov	9.590	1.840	0.673	2.790		12.380	15.590	12.310	5.710	0.828	99.435	46.123						
9-Nov	12.650	1.909	0.681	2.710		15.360	15.340	12.360	5.050	0.736	80.469	32.878						
10-Nov	10.600	1.698	0.624	2.620		13.220	14.630	12.270	2.830	0.775	92.814	21.407						
11-Nov	15.490	1.959	0.763	2.760		18.250	14.940	12.820	3.950	0.904	70.247	21.644						
12-Nov	13.530	1.593	0.580	2.560		16.090	13.960	12.240	3.910	0.610	76.072	24.301						
13-Nov	15.590	1.824	0.571	2.680		18.270	14.700	12.350	4.230	0.451	67.597	23.153						
14-Nov	13.850	1.857	0.642	2.880		16.730	15.950	12.270	4.170	0.514	73.341	24.925						
15-Nov	10.450	1.789	0.671	2.700		13.150	15.060	12.290	4.400	0.805	93.460	33.460						
16-Nov	11.280	2.000	0.749	3.270		14.550	19.960	12.420	4.370	0.942	85.361	30.034						
17-Nov	8.310	1.986	0.715	3.000		11.310	16.330	12.000	4.280	0.824	106.101	37.843						
18-Nov	9.750	1.973	0.692	2.860		12.610	15.580	12.010	4.390	0.864	95.242	34.814						
19-Nov	10.970	1.685	0.616	2.710		13.680	14.050	12.050	4.270	0.415	88.085	31.213						
20-Nov	11.440	1.750	0.562	2.690		14.130	14.120	12.540	4.180	0.393	88.747	29.582						
21-Nov	10.900	2.002	0.644	2.970		13.870	15.180	12.440	4.260	0.790	89.690	30.714						
22-Nov	10.831	1.645	0.621	2.700		5.500	14.620	12.050	4.240	0.726	219.091	77.091						
23-Nov	10.831	1.914	0.711	2.680		3.060	14.310	11.060	1.770	0.720	361.438	57.843						
24-Nov	7.890	1.722	0.625	2.630		10.520	13.900	12.090	2.320	0.195	114.924	22.053						
25-Nov	9.930	1.841	0.559	2.860		12.790	15.130	12.050	2.610	0.669	94.214	20.407						
26-Nov	10.030	1.777	0.660	2.540		12.570	13.610	11.830	2.510	0.685	94.113	19.968	20:00	22:15	22:15			
27-Nov	9.880	1.823	0.542	2.600		12.480	13.550	12.210	2.630	0.513	97.837	21.074				03:15		
28-Nov	9.810	1.918	0.638	2.680		12.490	13.870	12.360	2.600	0.763	98.959	20.817						
29-Nov	10.270	1.792	0.691	2.690		12.960	14.800	12.190	2.560	0.838	94.059	19.753						
30-Nov	10.280	2.053	0.736	2.990		13.270	17.800	11.790	2.600	0.861	88.847	19.593						
Total	324.925	55.854	19.795	84.210	0.000	390.653	455.835	367.380	116.830	19.738	3154.678	959.83	Due to					
Week 1	10.110	1.929	0.690	2.949	#DIV/0!	13.059	15.551	12.483	4.713	0.560	97.791	37.02						
Week 2	13.043	1.811	0.648	2.714	#DIV/0!	15.757	15.016	12.374	4.264	0.688	79.996	27.78						
Week 3	10.443	1.884	0.664	2.886	#DIV/0!	13.329	15.754	12.250	4.307	0.719	92.384	32.52						
Week 4	9.886	1.806	0.622	2.670	#DIV/0!	9.916	14.141	11.950	2.669	0.610	154.368	34.18						
Monthly	10.831	1.862	0.660	2.807	#DIV/0!	13.022	15.195	12.246	3.894	0.658	105.156	31.99						
Min =	7.890	1.593	0.542	2.470	0.000	3.060	13.550	11.060	1.770	0.195	67.597	19.59						
Max =	15.590	2.645	0.779	4.320	0.000	18.270	19.960	12.960	5.710	0.942	361.438	77.09						

Malfunction of 6th and Canal totalizer. Monthly average used.

Influent flow used due to inaccuracy of the effluent flow metering over 25 MGD.

	7-11 mgd	2-3 mgd	<1 mgd	2-4 mgd														

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	November 2010			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
31-Oct															
1-Nov	7.1	40	4180	7.1	192.00	4220	7.2	92	5220	7.0	330	4820	7.0	130	4860
2-Nov															
3-Nov	7.2		4040	7.1		4100	7.3		5160	7.0		4860	7.0		4900
4-Nov															
5-Nov	7.1	25	3960	7.1	228	4000	7.3	60	5020	7.1	82	4620	7.1	58	4540
6-Nov															
7-Nov															
8-Nov	7.0	105	4120	7.1	378	3880	7.1	60	4880	7.0	38	4580	7.1	218	4180
9-Nov															
10-Nov	7.1		4160	6.9		3580	7.2		4760	7.0		4520	7.0		4540
11-Nov															
12-Nov	7.0	55	3060	7.0	412	3400	7.2	72	4640	7.1	115	3620	7.2	42	4500
13-Nov															
14-Nov															
15-Nov	7.1	32	3780	7.0	98	3160	7.2	42	4340	7.0	70	3830	7.1	58	4560
16-Nov															
17-Nov	7.2		3900	6.9		2940	7.3		4480	7.0		3860	7.0		4600
18-Nov															
19-Nov	7.2	100	3880	7.1	432	2860	7.3	148	4040	7.0	165	4060	7.0	250	620
20-Nov															
21-Nov															
22-Nov	7.2	62	3780	7.2	188	3180	7.4	562	4300	7.0	42	3800	7.0	238	4500
23-Nov															
24-Nov	6.8	45	3460	6.9	105	3180	7.2	112	4460	6.9	55	2680	7.0	400	4120
25-Nov															
26-Nov															
27-Nov															
28-Nov															
29-Nov	7.0	65	3400	6.9	590	3120	7.1	325	4780	6.9	338	1440	7.0	490	3940
30-Nov															
Total	84.9	529	45720	84.3	2623	41620	86.8	1473	56080	84.0	1235	46690	84.5	1884	49860
Week 1	7.1	33	4060	7.1	210	4107	7.3	76	5133	7.0	206	4767	7.0	94	4767
Week 2	7.0	80	3780	7.0	395	3620	7.2	66	4760	7.0	77	4240	7.1	130	4407
Week 3	7.2	66	3853	7.0	265	2987	7.3	95	4287	7.0	118	3917	7.1	154	3260
Week 4	7.0	54	3620	7.1	147	3180	7.3	337	4380	7.0	49	3240	7.0	319	4310
Monthly															
Min =	6.8	25	3060	6.9	98	2860	7.1	42	4040	6.9	38	1440	7.0	42	620
Max =	7.2	105	4180	7.2	590	4220	7.4	562	5220	7.1	338	4860	7.2	490	4900

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	November 2010					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	Inches	(°F)	(°F)
31-Oct	17.7	13	9	10	0.7	14.26	6.4	7.4	0.60		3	75	0.0	35	59
1-Nov	17.3	12	7	6	1.0	13.95	7.4	7.4	0.69		7	75	0.0	30	54
2-Nov	17.4	13	10	8	2.6	14.37	7.5	7.8	1.01		1	75	0.0	26	57
3-Nov	16.9	17	12	8	2.8	14.76	7.2	7.3	0.73		4	75	0.0	28	57
4-Nov	17.5	17	11	13	10.2	18.13	6.1	7.2	0.98		2	75	1.5	43	47
5-Nov	17.7	16	9	9	2.1	16.05	6.4	7.5	0.89		2	65	0.0	37	53
6-Nov	17.6	7	5	9	1.6	15.93	7.3	7.8	0.91		2	75	0.0	30	51
7-Nov	17.5	13	9	11	2.1	15.67	7.2	7.8	1.33		4	75	0.0	27	52
8-Nov	14.4	14	9	9	4.6	15.59	7.3	7.5	0.79		2	65	0.0	39	53
9-Nov	17.0	16	10	9	7.4	15.34	7.1	7.7	0.74		1	65	0.0	43	59
10-Nov	18.2	23	13	12	5.9	14.63	7.1	7.5	1.05		3	65	0.0	37	67
11-Nov	16.9	14	7	12	7.9	14.94	7.1	7.2	1.28		3	65	0.0	29	66
12-Nov	16.8	20	9	10	7.4	13.96	7.2	7.4	0.74		3	85	0.0	26	68
13-Nov	17.8	19	9	6	3.9	14.70	7.3	7.6	0.65		2	65	0.0	28	70
14-Nov	17.8	15	9	9	3.0	15.95	7.2	7.9	0.81		1	75	0.0	30	65
15-Nov	17.5	23	12	9	3.0	15.06	7.3	7.3	0.88		2	75	0.0	40	57
16-Nov	17.4	18	10	13	7.1	19.96	6.3	7.3	0.89		6	75	0.4	45	60
17-Nov	18.7	22	10	8	5.4	16.33	6.7	7.4	0.89		14	65	0.6	50	63
18-Nov	17.4	18	9	12	5.2	15.58	7.2	7.3	0.77		4	75	0.0	36	56
19-Nov	16.9	16	8	10	7.9	14.05	7.2	7.3	0.91		1	65	0.0	29	50
20-Nov	16.5	17	7	9	4.0	14.12	7.6	7.2	1.18		1	65	0.0	28	54
21-Nov	17.2	14	8	11	1.8	15.18	7.7	7.3	1.17		1	65	0.0	29	52
22-Nov	16.7	26	10	9	5.1	14.62	7.7	7.2	1.24		7	65	0.0	42	60
23-Nov	17.3	23	12	10	5.9	14.31	7.1	7.3	0.98		1	75	0.0	39	60
24-Nov	18.2	17	7	13	5.6	13.90	7.2	7.8	0.67		6	75	0.0	38	52
25-Nov	16.5	15	16	10	3.3	15.13	7.5	7.7	0.59		1	75	0.2	34	42
26-Nov	17.1	17	9	10	6.5	13.61	7.3	7.7	1.33		12	75	0.0	35	48
27-Nov	15.1	15	8	10	8.6	13.55	7.1	7.8	0.85		2	75	0.0	28	42
28-Nov	15.3	15	8	10	8.1	13.87	7.9	7.5	0.79		2	75	0.0	25	50
29-Nov	16.2	17	10	10	6.5	14.80	7.8	7.7	0.72		1	75	0.0	21	50
30-Nov	16.5	18	14	10	6.2	17.80	7.4	7.6	0.74		1	65	0.2	34	58
						See DO profile					<				
TOTAL		507	287	295	152.7	455.8	###	224.8	27.20			2140	3.0		
Week 1	17.4	14	9	9	3.2	15.55	7.02	7.54	0.93		3	74	0.2	32	53
Week 2	17.0	17	9	10	5.7	15.02	7.19	7.55	0.87		2	69	*	33	64
Week 3	17.4	18	9	10	4.9	15.75	7.16	7.28	0.96		4	69	0.1	37	56
Week 4	16.6	18	10	10	6.2	14.14	7.40	7.55	0.92		4	74	0.0	34	51
Monthly	17.0	17	10	10	5.1	15.19	7.22	7.49	0.91		2	71	0.1	34	56
Only highlighted weekly averages have been adjusted as stated below.															
Min =	14.4	7	5	6	1.0	13.55	6.1	7.2	0.59		1	65	0.0	21	42
Max =	18.7	26	16	13	10.2	19.96	7.9	7.9	1.33		14	85	1.5	50	70
Weekly averages: 10/31 -11/6, 11/7-13, 11/14-20, 11/21-27. 11/28 through 11/30 included in December's weekly averages.															
DISCHARGE LIMITATIONS															
Ave Monthly:			25	30	18		Min.	6.0			10,000	186			
Ave Weekly:			40	45			of	to							
Inst. Max:			50	60	24		5.0	9.0				465			

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Dissolved Oxygen - November 2010

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
11/1/2010	7.4	7.5	7.8	7.7	7.6	7.6	7.5		7.4
11/2/2010	7.5	7.5	7.9	7.7	7.7	7.5	7.8		7.5
11/3/2010	7.4	7.3	7.6	7.4	7.4	7.2	8.3		7.2
11/4/2010	7.2	7.0	6.8	6.8	6.4	6.1	7.0		6.1
11/5/2010	6.4	7.0	7.2	7.5	7.5	7.4	7.0		6.4
11/6/2010	7.3	7.6	7.8	8.0	7.8	7.6	8.1		7.3
11/7/2010	7.6	8.1	7.2	8.2	7.9	7.7	8.1		7.2
11/8/2010	7.7	7.8	7.7	7.5	7.3	7.4	7.7		7.3
11/9/2010	7.5	7.4	7.3	7.3	7.2	7.1	7.5		7.1
11/10/2010	7.2	7.2	7.1	7.2	7.1	7.2	7.1		7.1
11/11/2010	7.2	7.3	7.3	7.3	7.2	7.2	7.1		7.1
11/12/2010	7.2	7.3	7.3	7.3	7.2	7.2	7.3		7.2
11/13/2010	7.3	7.4	7.3	7.3	7.3	7.4	7.4		7.3
11/14/2010	7.4	7.5	7.3	7.2	7.3	7.3	7.7		7.2
11/15/2010	7.3	7.3	7.4	7.6	7.3	7.3	7.4		7.3
11/16/2010	7.2	7.3	7.1	7.0	7.0	6.9	6.3		6.3
11/17/2010	6.9	6.9	6.7	6.9	7.0	7.3	6.9		6.7
11/18/2010	7.5	7.7	7.6	7.5	7.3	7.2	7.8		7.2
11/19/2010	7.2	7.3	7.2	7.5	7.5	7.5	7.5		7.2
11/20/2010	7.7	7.7	7.6	7.7	7.8	7.7	7.8		7.6
11/21/2010	7.9	8.1	8.1	8.0	7.9	7.7	8.4		7.7
11/22/2010	7.9	8.0	8.1	8.0	7.9	7.7	8.0		7.7
11/23/2010	7.4	7.3	7.1	7.2	7.1	7.2	7.1		7.1
11/24/2010	7.4	7.5	7.4	7.2	7.5	7.6	7.3		7.2
11/25/2010	7.9	7.8	7.6	7.6	7.5	7.5	7.7		7.5
11/26/2010	7.6	7.8	8.0	7.9	7.6	7.3	9.0		7.3
11/27/2010	7.1	7.6	7.5	7.5	7.3	7.9	8.1		7.1
11/28/2010	8.0	8.2	7.9	8.0	7.9	8.0	8.1		7.9
11/29/2010	8.1	8.2	8.0	7.9	7.9	7.8	8.0		7.8
11/30/2010	7.9	7.9	7.6	7.5	7.5	7.4	7.6		7.4
12/1/2010									
Min	6.38	6.88	6.73	6.81	6.36	6.11	6.3	Min	6.11
Max	8.10	8.20	8.12	8.22	7.93	7.98	9.0	Max	7.91
								Avg	7.22

November 2010
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Nov	0.03	0.03	0.04	0.04	0.03	0.02	0.03	
2-Nov	0.03	0.03	0.02	0.03	0.02	0.02	0.03	
3-Nov	0.03	0.03	0.02	0.02	0.01	0.01	0.02	
4-Nov	0.02	0.02	0.29	0.01	0.01	0.00	0.06	
5-Nov	0.02	0.02	0.01	0.02	0.01	0.00	0.01	
6-Nov	0.01	0.25	0.02	0.05	0.02	0.01	0.06	
7-Nov	0.00	0.29	0.04	0.02	0.01	0.00	0.06	
8-Nov	0.00	0.21	0.02	0.01	0.00	0.02	0.04	
9-Nov	0.02	0.04	0.03	0.02	0.02	0.04	0.03	
10-Nov	0.03	0.24	0.03	0.02	0.03	0.02	0.06	
11-Nov	0.04	0.06	0.04	0.02	0.03	0.04	0.04	
12-Nov	0.04	0.07	0.04	0.02	0.02	0.04	0.04	
13-Nov	0.00	0.12	0.04	0.03	0.02	0.03	0.04	
14-Nov	0.05	0.21	0.04	0.05	0.02	0.02	0.07	
15-Nov	0.03	0.08	0.06	0.03	0.02	0.04	0.04	
16-Nov	0.00	0.12	0.03	0.03	0.04	0.03	0.04	
17-Nov	0.05	0.01	0.03	0.02	0.02	0.02	0.03	
18-Nov	0.03	0.03	0.04	0.02	0.02	0.03	0.03	
19-Nov	0.03	0.04	0.06	0.01	0.01	0.02	0.03	
20-Nov	0.06	0.23	0.04	0.02	0.00	0.02	0.06	
21-Nov	0.06	0.23	0.04	0.04	0.03	0.02	0.07	
22-Nov	0.03	0.27	0.04	0.03	0.02	0.00	0.07	
23-Nov	0.33	0.25	0.04	0.05	0.02	0.02	0.12	
24-Nov	0.11	0.06	0.04	0.03	0.01	0.01	0.04	
25-Nov	0.32	0.25	0.03	0.04	0.02	0.02	0.11	
26-Nov	0.21	0.15	0.05	0.03	0.04	0.01	0.08	
27-Nov	0.02	0.15	0.03	0.01	0.02	0.02	0.04	
28-Nov	0.02	0.23	0.02	0.05	0.02	0.02	0.06	
29-Nov	0.02	0.11	0.05	0.03	0.03	0.01	0.04	
30-Nov	0.02	0.14	0.02	0.03	0.02	0.01	0.04	
Average	0.06	0.13	0.04	0.03	0.02	0.02	0.05	
Minimum	0.00	0.01	0.01	0.01	0.00	0.00		
Maximum	0.33	0.29	0.29	0.05	0.04	0.04		

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	10/01/2010	TO	10/31/2010

RECEIVED
EPA REGION III
NOV 29 2010
WATER PROTECTION DIVISION
(3WP00)

DMR Mailing ZIP CODE: 196013690
MAJOR
(UBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	72	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	5.2	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.2	******	7.8		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1446	1526		******	11	12		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	268	******		******	1.9	******		0	Daily	COMP24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	16.22	24.18		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.03	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		11/23/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	10/01/2010	TO	10/31/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.00993	******		******	<0.00007	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	12	******		0	Daily	GRAB
74055 1 1 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1221	1518		******	9	10		0	Daily	COMP24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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	Ralph E. Johnson	610-655-6258		11/23/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

	October 2010				City of Reading Wastewater Treatment Plant									
	Final Effluent							preSO2	COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC	FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L	#/100ml	Pt-Co	inches	(°F)	(°F)
1-Oct	21.5	13	8	14	0.3	19.640	5.2	7.6	1.36	202	65	1.42	55	73
2-Oct	19.9	8	5	7	0.3	17.76	7.4	7.5	1.30	13	65	0.00	44	73
3-Oct	19.9	11	8	11	0.9	17.68	7.5	7.5	0.99	18	60	0.00	42	68
4-Oct	19.4	19	11	8	3.1	24.18	7.2	7.7	1.04	5	75	0.86	49	55
5-Oct	19.4	18	13	12	4.4	22.53	7.1	7.8	0.98	84	75	0.31	49	56
6-Oct	20.1	13	9	9	1.7	16.83	6.4	7.5	0.85	7	65	0.02	49	59
7-Oct	19.7	16	9	11	2.2	16.73	7.1	7.5	0.78	13	60	0.00	52	72
8-Oct	19.5	14	8	11	2.3	15.26	7.1	7.5	0.75	54	75	0.00	44	74
9-Oct	20.5	16	10	8	1.0	14.93	7.1	7.6	0.94	6	75	0.00	47	78
10-Oct	20.1	13	7	9	1.0	15.41	7.1	7.6	1.02	7	65	0.00	39	75
11-Oct	19.9	20	10	10	3.4	18.47	6.7	7.4	0.66	13	65	0.03	51	82
12-Oct	20.9	19	11	11	4.3	14.85	6.2	7.3	0.95	7	75	0.44	54	77
13-Oct	19.6	16	10	10	2.9	14.20	6.5	7.6	0.65	12	85	0.00	38	70
14-Oct	19.6	14	9	11	3.6	18.85	7.0	7.5	0.68	8	85	0.56	39	52
15-Oct	19.3	15	8	15	0.8	16.13	7.0	7.5	0.82	5	65	0.00	44	62
16-Oct	18.5	17	8	9	0.4	13.87	7.9	7.2	0.86	15	65	0.00	40	66
17-Oct	18.8	15	8	11	0.6	15.30	7.4	7.5	0.85	16	75	0.00	36	72
18-Oct	18.5	16	10	11	0.9	17.19	7.2	7.3	0.73	17	75	0.00	39	64
19-Oct	19.2	16	8	11	3.3	15.10	6.9	7.4	1.18	3	65	0.45	43	65
20-Oct	20.3	17	8	14	2.9	16.16	7.0	7.6	0.74	7	65	0.00	40	62
21-Oct	18.8	16	10	12	0.9	14.14	7.1	7.7	0.71	7	65	0.00	40	64
22-Oct	18.9	13	7	11	1.1	13.73	7.2	7.3	0.79	7	75	0.00	37	57
23-Oct	17.4	19	10	12	0.6	14.00	7.5	7.4	0.65	5	75	0.00	34	70
24-Oct	18.8	15	8	14	0.9	15.29	7.0	7.7	0.49	132	65	0.00	44	77
25-Oct	19.6	26	12	15	3.8	16.00	6.5	7.5	0.90	7	85	0.00	47	73
26-Oct	21.7	21	10	10	3.1	15.70	6.4	7.6	0.54	7	75	0.01	58	73
27-Oct	22.4	17	10	10	3.4	15.89	6.1	7.5	0.67	9	85	0.40	56	73
28-Oct	20.8	15	9	9	2.1	14.72	6.4	7.3	0.59	314	85	0.02	51	74
29-Oct	19.4	11	6	9	1.8	13.56	7.2	7.2	0.87	1	85	0.01	44	55
30-Oct	16.7	12	8	6	0.8	14.40	7.3	7.3	0.82	4	75	0.00	33	57
31-Oct	17.7	13	9	10	0.7	14.26	7.3	7.4	0.60	3	75	0.00	35	59
						See DO profile								
TOTAL		484	277	331	59.4	502.8	###	232.1	25.76		2245	4.53		
Week 1	20.0	15	10	10	1.8	19.34	6.84	7.60	1.04	49	66	0.37	49	65
Week 2	20.0	16	9	11	2.7	16.00	6.81	7.49	0.81	15	75	0.15	45	73
Week 3	19.1	16	9	12	1.4	15.41	7.21	7.47	0.84	10	68	0.06	40	65
Week 4	19.9	17	9	10	2.1	15.05	6.73	7.46	0.66	69	78	0.06	47	71
Monthly	19.6	16	9	11	1.9	16.22	6.93	7.49	0.83	12	72	0.15	44	67
Only highlighted weekly averages have been adjusted as stated below.														
Min =	16.7	8	5	6	0.3	13.56	5.2	7.2	0.49	1	60	0.00	33	52
Max =	22.4	26	13	15	4.4	24.18	7.9	7.8	1.36	314	85	1.42	58	82
Weekly averages: 10/3-9, 10/10-16, 10/17-23, 10/24-30. 10/31 used in November averages.														
DISCHARGE LIMITATIONS														
Ave Monthly:		20	30	6		Min.	6.0			10,000	186			
Ave Weekly:		30	45			of	to							
Inst. Max:		40	60	12		5.0	9.0				465			

Print Date: 11/16/2010

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Oct	6,157	33,664	39,821	-4,605		35,216	2,129	1,310	5,503	71,568	77,071	-60,691	16,380	2,293	4,390	591	1,115	1706	1,505	587	3,210	53
2-Oct	6,238	26,880	33,118	-1,845		31,273	1,185	741	4,197	8,015	12,212	7,964	20,176	1,037	6,550	641	1,564	2,205	1,440	2,982	3,644	39
3-Oct	6,157	32,680	38,837	697	562	39,534	1,622	1,180	5,503	27,295	32,798	950	33,748	1,622	5,156	591	1,495	2,086	831	3,422	2,917	126
4-Oct	7,549	45,208	52,757	7,281		60,037	3,832	2,218	5,298	24,977	30,274	13,332	43,606	1,613	7,676	540	1,711	2,251	2,521	4,169	4,771	625
5-Oct	5,911	42,051	47,962	24,745		72,706	3,382	2,443	9,684	72,180	81,864	2,587	84,451	2,255	8,147	670	1,756	2,425	3,139	121	5,565	832
6-Oct	6,037	51,451	57,488	-3,165		54,323	1,825	1,263	6,037	39,992	46,029	-8,860	37,169	1,263	8,724	546	2,187	2,733	2,957	3,101	5,690	241
7-Oct	6,065	38,524	44,589	-8,128	483	36,460	2,232	1,256	5,357	22,622	27,980	14,700	42,680	1,535	7,807	538	1,631	2,169	2,442	1,852	4,611	307
8-Oct	5,564	61,863	67,427	-9,901		57,526	1,782	1,018	4,683	74,042	78,725	-41,334	37,392	1,400	5,511	605	2,185	2,790	1,860	1,385	4,650	294
9-Oct	6,157	50,414	56,571	-7,750		48,821	1,992	1,245	5,503	28,168	33,671	11,203	44,874	996	4,564	591	1,768	2,359	1,463	172	3,823	127
10-Oct	6,783	37,375	44,158	-8,996	432	35,161	1,671	900	6,234	32,278	38,512	-22,470	16,042	1,157	6,755	589	1,775	2,364	1,998	673	4,362	130
11-Oct	8,642	51,478	60,120	-10,046		50,073	3,081	1,540	6,652	27,521	34,172	-7,133	27,040	1,540	7,756	639	2,010	2,649	3,047	1,765	5,696	524
12-Oct	6,111	44,694	50,805	36,357		87,162	2,353	1,362	5,306	29,856	35,161	54,906	90,067	1,362	5,913	568	1,770	2,338	5,833	650	8,171	536
13-Oct	6,735	50,981	57,716	-4,628		53,088	1,895	1,184	5,424	64,854	70,279	-22,287	47,992	1,184	5,635	579	1,730	2,309	1,992	1,141	4,300	343
14-Oct	6,018	11,752	17,770	-3,565	332	14,204	2,201	1,415	6,736	7,401	14,137	-3,247	10,890	1,729	5,534	629	483	1,112	493	3,072	1,605	563
15-Oct	7,466	50,732	58,198	2,176		60,373	2,018	1,076	4,938	38,049	42,987	3,259	46,246	2,018	3,761	573	2,010	2,582	1,390	703	3,973	105
16-Oct	6,140	36,676	42,816	6,704		49,520	1,966	925	4,757	26,550	31,308	3,459	34,767	1,041	2,802	572	1,730	2,302	638	681	2,940	42
17-Oct	7,834	40,766	48,600	2,923	258	51,523	1,914	1,021	6,014	35,041	41,056	1,059	42,114	1,404	4,001	619	1,821	2,441	707	742	3,147	77
18-Oct	6,380	43,938	50,318	3,045		53,363	2,294	1,434	5,755	64,270	70,024	-30,669	39,355	1,577	5,965	605	1,749	2,354	1,981	1,297	4,336	127
19-Oct	5,994	53,135	59,130	7,355		66,484	2,015	1,007	4,080	36,894	40,974	55,867	96,841	1,385	7,581	670	2,196	2,866	3,005	2,396	5,871	414
20-Oct	5,021	40,985	46,005	-7,487		38,518	2,291	1,078	4,624	38,810	43,434	-1,706	41,728	1,887	6,018	595	1,815	2,411	1,998	1,226	4,408	394
21-Oct	2,929	35,489	38,419	7,355	251	45,773	1,887	1,179	3,047	40,039	43,086	18,251	61,336	1,415	5,571	614	2,047	2,661	2,076	1,070	4,738	104
22-Oct	3,060	33,811	36,870	1,624		38,494	1,489	802	971	14,726	15,697	6,245	21,942	1,260	3,036	561	1,728	2,289	1,425	748	3,715	125
23-Oct	7,473	38,806	46,279	-4,512		41,767	2,218	1,168	5,069	55,649	60,719	-37,956	22,763	1,401	2,635	555	1,858	2,413	615	328	3,028	66
24-Oct	7,996	47,187	55,184	7,479	172	62,663	1,913	1,020	8,373	44,597	52,969	2,731	55,701	1,785	3,716	741	1,989	2,730	1,726	399	4,456	116
25-Oct	6,303	46,676	52,979	-23,911		29,068	3,469	1,601	5,454	33,007	38,460	-22,605	15,855	2,002	7,256	595	1,784	2,378	2,748	1,070	5,127	511
26-Oct	7,265	44,098	51,363	-7,425		43,938	2,750	1,309	12,046	83,786	95,832	-52,302	43,529	1,309	7,559	616	1,599	2,215	2,496	1,478	4,711	409
27-Oct	6,122	60,949	67,071	-10,963		56,107	2,253	1,325	7,023	129,211	136,234	-81,872	54,362	1,325	4,297	589	2,103	2,692	2,233	1,074	4,925	451
28-Oct	5,767	35,913	41,679	-3,519	480	38,160	1,841	1,105	5,275	27,325	32,600	15,603	48,203	1,105	6,395	443	1,702	2,144	2,053	3,405	4,198	254
29-Oct	3,660	43,131	46,792	27,257		74,049	1,244	679	1,849	17,555	19,405	22,556	41,961	1,018	2,374	539	1,672	2,212	19	40	2,231	208
30-Oct	5,358	38,982	44,341	-5,722		38,619	1,441	961	4,758	27,205	31,963	-8,166	23,798	721	6,750	549	1,783	2,332	1,050	265	3,382	90
31-Oct	5,986	41,775	47,761	-11,427	134	36,335	1,546	1,070	4,441	31,415	35,855	-19,636	16,219	1,189	5,007	579	1,846	2,425	766	195	3,191	80
									Monthly average used for Grit Chamber mass loadings.													
TOTAL	190,879	1,312,062	1,502,941	-2,601	3,103	1,500,340	65,731	37,836	170,590	1,274,898	1,445,488	-186,263	1,259,225	44,829	174,843	18,332	54,610	72,943	58,447	42,208	131,390	8,313
Week 1	6,302	38,637	44,939	2,140	523	47,079	2,381	1,518	5,940	38,093	44,033	-4,288	39,744	1,526	6,798	588	1,637	2,225	2,119	2,319	4,344	318
Week 2	6,573	44,079	50,652	-1,219	382	49,434	2,169	1,200	5,791	37,731	43,523	-4,337	39,185	1,433	5,451	600	1,674	2,274	2,384	1,265	4,658	360
Week 3	5,966	43,103	49,069	3,153	254	52,222	2,015	1,098	4,745	39,950	44,695	7,074	51,770	1,476	4,972	607	1,910	2,517	1,685	1,159	4,202	180
Week 4	6,284	43,920	50,204	-5,890	326	44,314	2,130	1,143	6,316	55,472	61,787	-24,308	37,479	1,324	5,478	586	1,823	2,409	1,900	1,215	4,308	276
Monthly	6,157	42,325	48,482	-84	345	48,398	2,120	1,221	5,503	41,126	46,629	-6,008	40,620	1,446	5,640	591	1,762	2,353	1,885	1,362	4,238	268
Min =	2929	11752	17770	-23911	134	14,204	1,185	679	971	7,401	12,212	-81,872	10,890	721	2,374	443	483	1,112	19	40	1,605	39
Max =	8642	61863	67427	36357	562	87,162	3,832	2,443	12,046	129,211	136,234	55,867	96,841	2,293	8,724	741	2,196	2,866	5,833	4,169	8,171	832
								3,336						7,130								1,000
								5,004						10,696								

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	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Oct								
2-Oct								
3-Oct								
4-Oct								
5-Oct	< 0.00007	< 0.00220	0.00100	0.10838	0.00020	0.02796	< 0.00007	< 0.01315
6-Oct	< 0.00007	< 0.00182	0.00060	0.07016	0.00040 #	0.05718	< 0.00007	< 0.00983
7-Oct								
8-Oct								
9-Oct								
10-Oct								
11-Oct								
12-Oct	0.00020	0.00474	0.00060	0.05363	0.00040	0.07263	< 0.00007	< 0.00867
13-Oct								
14-Oct								
15-Oct								
16-Oct								
17-Oct								
18-Oct								
19-Oct	< 0.00007	< 0.00176	< 0.00007	< 0.00702	< 0.00007	< 0.00878	< 0.00007	< 0.00882
20-Oct								
21-Oct								
22-Oct								
23-Oct								
24-Oct								
25-Oct								
26-Oct	< 0.00007	< 0.00164	0.00009	0.00709	0.00050	0.05109	< 0.00007	< 0.00917
27-Oct								
28-Oct								
29-Oct								
30-Oct								
31-Oct								
Total	0.00048	0.01216	0.00236	0.24628	0.00157	0.21765	0.00035	0.04963
Week 1	< 0.00007	< 0.00201	0.00080	0.08927	0.00030	0.04257	< 0.00007	< 0.01149
Week 2	0.00020	0.00474	0.00060	0.05363	0.00040	0.07263	< 0.00007	< 0.00867
Week 3	< 0.00007	< 0.00176	< 0.00007	< 0.00702	< 0.00007	< 0.00878	< 0.00007	< 0.00882
Week 4	< 0.00007	< 0.00164	0.00009	0.00709	0.00050	0.05109	< 0.00007	< 0.00917
Monthly	< 0.00010	< 0.00243	< 0.00047	< 0.04926	< 0.00031	< 0.04353	< 0.00007	< 0.00993
Min =	< 0.00007	< 0.00164	< 0.00007	< 0.00702	< 0.00007	< 0.00878	< 0.00007	< 0.00867
Max =	0.00020	0.00474	0.00100	0.10838	0.00050	0.07263	< 0.00007	< 0.01315
							0.00023	0.055
							0.00046	

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	October 2010				City of Reading Wastewater Treatment Plant																Laboratory Process Control Data								
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent				Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
1-Oct	NS	NS	7.2	NS	270	574	7.0	8.9	243	471	10.4	-28	-371	9.2	215	100	19.6	6.6	19.64	155	44	10.9	6.4	58	36	8.8	120	6.0	50	37	9.2	120
2-Oct	220	148	7.7	22.6	275	82	6.9	16.0	263	97	17.5	-15	63	11.4	248	160	28.9	6.6	15.12	190	39	26.6	6.5	25	13	11.8	300	6.6	20	15	4.1	180
3-Oct	NS	NS	7.2	NS	352	294	6.8	16.1	322	272	17.3	6	8	6.9	328	280	24.2	6.7	14.45	170	60	17.4	6.5	108	17	12.9		6.8	38	27	4.1	
4-Oct	228	160	7.5	16.3	362	200	6.9	13.7	334	192	14.2	46	84	16.0	380	276	30.2	6.9	18.94	305	117	19.7	6.6	50	34	15.0	200	6.9	35	17	10.4	180
5-Oct	188	308	7.3	21.3	388	666	6.8	16.2	343	585	17.3	177	19	22.5	520	604	39.8	6.8	16.76	232	78	22.1	6.4	28	24	15.8		6.9	30	17	10.1	
6-Oct	232	232	7.3	21.0	440	342	6.8	18.7	402	322	19.1	-22	-62	20.7	380	260	39.8	7.0	17.14	NS	ns	ns	6.6	32	27	17.7	200	7.1	26	26	9.7	180
7-Oct	240	212	7.4	21.3	470	276	7.0	19.9	416	261	20.2	-76	137	22.8	340	398	43.0	6.7	12.86	288	66	26.2	6.5	51	37	19.0		6.9	NS	ns	ns	
8-Oct	240	202	7.6	26.1	640	766	6.9	22.6	563	657	23.3	-83	-345	15.5	480	312	38.8	7.0	14.37	NS	ns	ns	6.4	34	17	18.7	280	6.9	48	15	11.8	180
9-Oct	NS	NS	7.3	NS	630	352	6.8	22.1	545	324	22.7	-75	108	14.1	470	432	36.8	6.8	12.45	290	60	23.5	6.3	42	19	16.1		6.9	43	22	8.3	
10-Oct	272	250	7.4	23.6	440	380	7.0	20.9	402	350	21.5	-82	-204	18.2	320	146	39.7	7.0	13.18	258	62	26.2	6.6	31	18	18.1		7.2	23	11	9.1	
11-Oct	330	254	7.6	24.4	520	278	7.0	20.3	480	273	21.2	-80	-57	24.3	400	216	45.5	6.7	15.01	360	91	29.4	6.6	73	39	20.3	280	7.0	53	36	12.4	220
12-Oct	258	224	7.5	24.0	500	334	6.9	19.8	449	311	20.7	31	185	24.3	480	496	45.0	7.4	21.77	282	71	28.7	6.6	62	47	16.4		7.3	42	24	13.2	
13-Oct	298	240	7.6	25.6	610	776	7.0	20.7	544	662	21.7	-44	-210	18.8	500	452	40.5	6.8	12.73	248	58	28.3	6.5	60	26	20.4	300	6.9	24	7	12.8	200
14-Oct	218	244	7.7	22.8	470	296	6.8	19.3	338	269	21.1	-68	-62	9.4	270	207	30.5	6.7	6.31	340	168	27.7	6.4	29	15	16.1		7.2	20	19	10.5	
15-Oct	322	213	7.5	24.7	520	390	7.0	20.6	482	356	21.4	18	27	11.5	500	383	32.9	6.7	14.48	288	53	23.9	6.5	57	57	16.3	220	7.2	28	13	8.9	180
16-Oct	262	203	7.6	24.4	460	333	7.3	21.7	415	303	22.3	65	34	6.2	480	337	28.5	6.7	12.37	265	69	24.3	6.6	36	37	16.4		7.5	24	21	7.7	
17-Oct	310	238	7.6	24.5	470	404	7.2	21.0	434	367	21.8	26	9	6.3	460	376	28.1	6.8	13.43	290	59	23.6	6.6	NS	ns	ns	300	7.2	20	11	8.6	180
18-Oct	255	230	7.5	24.2	510	746	7.2	20.3	453	630	21.2	27	-276	17.8	480	354	39.0	7.0	13.33	288	71	26.8	6.5	47	38	17.9		6.7	26	24	9.6	
19-Oct	238	162	7.4	26.6	530	368	6.9	21.9	471	327	22.8	59	445	24.0	530	772	46.8	7.1	15.04	222	66	27.7	6.5	58	27	19.2		7.2	26	17	12.9	
20-Oct	215	198	7.3	25.5	490	464	6.7	21.7	430	406	22.5	-70	-16	18.7	360	390	41.2	6.8	12.83	238	86	28.7	6.4	45	38	19.5	280	7.1	33	28	12.8	200
21-Oct	125	130	7.5	26.2	390	440	8.8	22.5	336	377	23.3	64	159	18.1	400	536	41.4	6.7	13.72	255	67	27.1	6.5	36	29	18.0		7.1	30	20	11.3	
22-Oct	145	46	7.5	26.6	450	196	7.2	23.0	383	163	23.8	17	65	14.8	400	228	38.6	6.7	11.54	302	86	26.4	6.5	23	13	17.8	320	7.0	25	8	10.6	220
23-Oct	342	232	7.4	25.4	470	674	7.2	22.5	443	582	23.1	-43	-364	5.9	400	218	29.0	6.7	12.52	NS	ns	ns	6.4	33	15	15.5		7.1	28	12	8.1	
24-Oct	340	356	7.4	31.5	510	482	6.9	21.5	476	456	23.5	64	24	14.9	540	480	38.4	6.6	13.91	NS	ns	ns	6.5	43	30	16.4		6.8	22	13	9.3	
25-Oct	282	244	7.7	26.6	560	396	7.1	21.4	501	364	22.5	-226	-214	26.0	275	150	48.5	6.6	12.67	285	238	28.5	6.5	37	25	21.1	300	6.9	20	4	13.3	220
26-Oct	310	514	7.4	26.3	560	1064	6.8	20.3	503	938	21.7	-73	-512	24.4	430	426	46.1	7.1	12.25	308	63	29.8	6.5	38	25	21.0		7.0	32	14	13.2	
27-Oct	265	304	7.5	25.5	600	1272	6.9	20.7	538	1093	21.6	-88	-657	17.9	450	436	39.5	6.8	14.95	260	62	26.9	6.4	42	38	18.8	300	7.1	32	17	13.3	240
28-Oct	258	236	7.5	19.8	460	350	7.0	21.8	415	325	21.4	-35	155	20.4	380	480	41.8	7.3	12.04	275	62	29.2	6.6	62	28	20.1		7.2	34	19	12.0	
29-Oct	190	96	7.5	28.0	570	232	6.9	22.1	493	204	23.3	287	238	0.2	780	442	23.5	7.2	11.38	300	72	24.6	6.7	67	16	22.6	320	7.4	22	8	11.6	240
30-Oct	250	222	6.4	25.6	470	328	6.2	21.5	425	306	22.3	-55	-78	10.1	370	228	32.4	6.4	12.51	280	66	23.7	6.2	56	39	16.5		6.9	32	15	8.5	
31-Oct	275	204	7.0	26.6	500	376	7.0	22.1	453	340	23.0	-108	-186	7.3	345	154	30.3	6.5	12.63	272	71	24.3	6.4	33	21	18.3		6.9	24	11	9.4	
TOTAL	7108	6302	230.0	687.0	14887	14131	217	621.8	13293	12582	649.9	-382	-1853	478.4	12911	10729	1128.3	###	432.36	7246	2105	682.2	###	1396	845	522.5	3720.0	216.6	910	528	306.8	2740.0
Week 1	222	212	7.4	20.5	365	348	6.9	15.6	332	314	16.6	13	-17	15.6	344	297	32.2	6.8	16.42	223	67	20.5	6.5	50	27	14.4	205.0	6.8	33	23	7.9	165.0
Week 2	269	236	7.5	24.4	544	455	6.9	20.8	474	407	21.7	-57	-84	17.8	417	323	39.5	6.9	13.69	296	85	27.3	6.5	47	26	18.0	286.7	7.0	36	19	11.2	200.0
Week 3	247	196	7.5	25.2	481	449	7.3	21.4	432	395	22.2	27	55	14.7	459	450	36.8	6.8	13.60	264	67	26.0	6.5	47	38	17.9	266.7	7.1	27	19	10.3	186.7
Week 4	277	276	7.5	26.0	516	633	7.0	21.6	466	560	22.5	-55	-215	17.8	411	345	40.3	6.8	12.84	286	102	28.2	6.5	40	25	18.7	306.7	7.0	28	12	11.4	226.7
Monthly	254	225	7.4	24.5	480	456	7.0	20.1	429	406	21.0	-12	-60	15.4	416	346	36.4	6.8	13.95	268	78	25.3	6.5	47	28	17.4	265.7	7.0	30	18	10.2	195.7
Min =	125	46	6.4	16	270	82	6.2	9	243	97	10.4	-226	-657	0.2	215	100	19.6	6.4	6.31	155	39	10.9	6.2	23	13	8.8	120.0	6.0	20	4	4.1	120.0
Max =	342	514	7.7	32	640	1272	8.8	23	563	1093	23.8	287	445	26.0	780	772	48.5	7.4	21.77	360	238	29.8	6.7	108	57	22.6	320.0	7.5	53	37	13.3	240.0
									%Removal						%Removal																	
									96.36	97.37	90.86				96.25	96.91	94.73															

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		Final Settling								Filtrate		
Chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
90	6.4	16	16	27	0.5	120			6.2		800	107.0
125	7.0	NS	NS	ns	ns	140			6.7		1700	774.0
120	6.8	NS	NS	ns	ns				6.9	120	1100	730.0
125	7.0	16	8	14	3.8	180			6.9		1300	706.0
130	7.0	33	21	16	2.9		2.4	0.221	7.0		1100	16.4
160	6.9	21	11	8	2.1	180			7.1		1100	391.0
ns	7.0	27	13	13	2.3				7.1	68	1100	261.0
150	6.8	24	12	12	2.1	160			7.2		1600	402.0
155	6.9	24	13	8	0.7				7.1		1200	45.3
120	7.0	22	11	13	0.9				7.2	64	1000	99.6
150	7.0	38	17	14	3.5	140	6.0	0.299	7.3		1200	273.0
145	7.0	33	15	7	4.2				7.1		1000	110.0
160	6.9	31	17	11	2.9	140			6.7		1200	243.0
145	7.0	29	14	15	3.0				7.0	72	1200	666.0
160	7.0	25	12	7	0.7	120			7.2		1000	187.0
150	7.4	27	14	22	0.3				7.3		1000	243.0
125	7.1	22	11	6	0.4	140			7.1	58	900	167.0
130	7.1	19	13	10	0.8		9.4	0.255	7.3		800	174.0
140	6.9	24	13	12	3.7				6.3		1000	316.0
145	7.3	28	15	11	3.1	120			7.1		1100	224.0
155	6.9	22	12	11	1.1				7.0	45	1000	192.0
165	7.1	22	12	7	1.3	160			7.0		800	197.0
140	7.2	25	12	8	0.4				7.0		900	112.0
125	6.8	26	22	10	0.9				6.7	37	800	85.9
140	6.9	29	17	13	4.0	140			6.9		1200	177.0
155	6.8	26	21	10	3.4		11.0	0.320	6.8		1100	215.0
160	7.1	31	17	17	3.3	160			6.1		800	200.0
165	7.1	26	14	13	2.1				7.2	90	1200	639.0
170	7.3	28	16	15	2.0	160			7.4		1300	21.9
160	7.1	29	19	6	0.8				6.8		1900	74.5
135	7.1	26	14	9	1.8				6.7	24	900	35.0
4295.0	216.8	749	422	345	58.8	2060.0	28.8	1.095	215.1	578	34300.0	8084.6
125.0	6.9	23	14	16	2.3	155.0	2.4	0.221	6.8	94	1171.4	426.5
146.4	6.9	29	14	11	2.5	146.7	6.0	0.299	7.1	68	1200.0	262.7
143.6	7.1	24	13	11	1.4	126.7	9.4	0.255	7.0	52	971.4	214.7
150.0	7.0	26	16	11	2.2	153.3	11.0	0.320	6.8	64	971.4	232.3
143.2	7.0	26	15	12	2.0	147.1	7.2	0.274	6.9	64	1106.5	260.8
90.0	6.4	16	8	6	0.3	120.0	2.4	0.221	6.1	24	800.0	16.4
170.0	7.4	38	22	27	4.2	180.0	11.0	0.320	7.4	120	1900.0	774.0

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		October 2010																
		Flow (MGD)											On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
1-Oct	14.950	2.926	0.793	4.690		19.640	19.640	6.710	2.790	0.658	34	14						
2-Oct	11.720	2.083	0.749	3.400		15.120	17.760	12.890	6.020	0.462	85	40						
3-Oct	11.132	2.168	0.791	3.320		14.452	17.680	12.020	5.740	0.562	83	40						
4-Oct	14.974	2.351	0.779	3.970		18.944	24.180	12.650	5.790	0.708	67	31						
5-Oct	12.995	2.271	0.826	3.770		16.765	22.530	12.980	6.020	0.888	77	36						
6-Oct	14.021	2.341	0.924	3.120		17.141	16.830	11.710	5.440	0.951	68	32						
7-Oct	9.828	1.562	0.572	3.030		12.858	16.730	11.920	5.640	0.851	93	44						
8-Oct	11.590	1.875	0.585	2.780		14.370	15.260	12.830	5.750	0.413	89	40						
9-Oct	9.595	1.872	0.592	2.860		12.455	14.930	12.350	4.920	0.456	99	40						
10-Oct	10.185	1.950	0.683	2.990		13.175	15.410	12.650	4.800	0.810	96	36						
11-Oct	11.870	1.794	0.724	3.140		15.010	18.470	12.070	6.570	0.775	80	44						
12-Oct	10.718	2.014	0.736	2.840		21.773	14.850	12.450	5.060	0.709	57	23						
13-Oct	10.021	1.765	0.716	2.710		12.731	14.200	12.840	5.300	0.563	101	42						
14-Oct	2.998	2.073	0.745	3.310		6.308	18.850	12.960	5.610	0.553	205	89						
15-Oct	11.698	1.782	0.616	2.780		14.478	16.130	11.970	5.000	0.451	83	35						
16-Oct	9.560	1.659	0.591	2.810		12.370	13.870	11.940	4.990	0.336	97	40						
17-Oct	10.400	2.053	0.705	3.030		13.430	15.300	12.370	4.840	0.533	92	36						
18-Oct	10.330	2.009	0.732	3.000		13.330	17.190	12.190	5.690	0.894	91	43						
19-Oct	12.021	1.904	0.673	3.020		15.041	15.100	12.450	5.180	0.909	83	34						
20-Oct	10.029	1.827	0.714	2.800		12.829	16.160	13.060	5.450	0.656	102	42						
21-Oct	10.911	1.786	0.681	2.810		13.721	14.140	12.590	5.150	0.668	92	38						
22-Oct	9.009	1.689	0.601	2.530		11.539	13.730	12.990	5.400	0.455	113	47						
23-Oct	9.900	1.746	0.599	2.620		12.520	14.000	12.050	4.660	0.351	96	37						
24-Oct	11.094	1.952	0.667	2.820		13.914	15.290	12.180	5.060	0.557	88	36						
25-Oct	9.994	1.842	0.716	2.680		12.674	16.000	10.690	2.660	0.725	84	21						
26-Oct	9.442	2.030	0.810	2.810		12.252	15.700	12.810	2.810	0.824	105	23						
27-Oct	12.180	1.584	0.618	2.770		14.950	15.890	12.050	3.600	0.644	81	24						
28-Oct	9.361	1.668	0.667	2.680		12.041	14.720	12.300	3.710	0.639	102	31						
29-Oct	9.073	1.618	0.660	2.310		11.383	13.560	12.460	3.640	0.219	109	32						
30-Oct	9.945	1.712	0.581	2.570		12.515	14.400	12.290	3.210	0.426	98	26						
31-Oct	10.018	1.735	0.643	2.610		12.628	14.260	12.110	3.420	0.667	96	27						
Total	331.562	59.641	21.489	92.580	0.000	432.357	502.760	377.530	149.920	19.313	2847	1121						
Week 1	12.803	2.243	0.776	3.614	#DIV/0!	16.417	19.336	11.554	5.349	0.726	73	34						
Week 2	9.568	1.906	0.683	2.947	#DIV/0!	13.689	15.996	12.593	5.430	0.611	104	45						
Week 3	10.707	1.860	0.673	2.893	#DIV/0!	13.600	15.413	12.367	5.186	0.635	91	38						
Week 4	10.140	1.787	0.668	2.701	#DIV/0!	12.841	15.047	12.153	3.986	0.599	95	31						
Monthly	10.718	1.924	0.693	2.986	#DIV/0!	13.947	16.218	12.178	4.836	0.623	92	36						
Min =	2.998	1.562	0.572	2.310	0.000	6.308	13.560	6.710	2.660	0.219	34	14						
Max =	14.974	2.926	0.924	4.690	0.000	21.773	24.180	13.060	6.570	0.951	205	89						

Average used due to inconsistency in totalizer readings.
Influent flow used due to inaccuracy of effluent flow meter over 25 MGD.

Print Date: 11/16/2010

	October 2010			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Oct	7.2	112	4300	7.2	1422.00	3940	7.3	170	5300	7.2	68	2160	7.2	72	4800
2-Oct															
3-Oct															
4-Oct	7.2	30	4360	7.3	105	3820	7.3	83	5380	7.0	45	1560	7.0	455	5020
5-Oct															
6-Oct	7.2		4500	7.1		4380	7.2		5340	7.1		4860	7.5		5000
7-Oct															
8-Oct	7.2	50	4720	6.7	755	2920	7.2	158	5280	ns	ns	ns	ns	ns	ns
9-Oct															
10-Oct															
11-Oct	7.1	50	3700	7.2	182	4180	7.3	70	5440	7.0	128	4180	7.0	175	1940
12-Oct															
13-Oct	7.1		4420	7.1		4380	7.4		5560	6.9		4440	7.0		4860
14-Oct															
15-Oct	7.1	35	4460	7.1	160	4720	7.3	208	5020	7.0	40	4760	7.0	275	4760
16-Oct															
17-Oct															
18-Oct	7.1	32	4420	7.1	25	4320	7.3	90	5220	7.1	75	4960	ns	ns	ns
19-Oct															
20-Oct	7.1		4220	7.2		4640	7.3		5280	7.0		2460	7.1		5040
21-Oct															
22-Oct	7.1	35	4480	7.2	32	4640	7.3	100	5340	7.0	150	4240	7.0	158	5000
23-Oct															
24-Oct															
25-Oct	7.2	210	4520	7.2	53	4440	7.4	120	5660	6.9	45	2300	7.0	160	4960
26-Oct															
27-Oct	7.0		4160	7.1		4180	7.2		5240	7.0		3040	7.0		4700
28-Oct															
29-Oct	7.0	230	3080	7.2	245	5040	7.3	82	4240	7.1	475	4620	7.1	82	4140
30-Oct															
31-Oct															
Total	92.5	784	55340	92.6	2979	55600	94.8	1081	68300	84.1	1026	43580	77.8	1377	50220
Week 1	7.2	71	4387	7.2	764	4047	7.3	127	5340	7.1	57	2860	7.2	264	4940
Week 2	7.1	50	4280	7.0	469	3827	7.3	114	5427	7.0	128	4310	7.0	175	3400
Week 3	7.1	34	4367	7.1	93	4560	7.3	149	5173	7.0	58	4060	7.0	275	4900
Week 4	7.1	123	4387	7.1	42	4420	7.3	110	5413	6.9	98	3193	7.0	159	4887
Monthly	7.1	87	4257	7.1	331	4277	7.3	120	5254	7.0	128	3632	7.1	197	4565
Min =	7.0	30	3080	6.7	25	2920	7.2	70	4240	6.9	40	1560	7.0	72	1940
Max =	7.2	230	4720	7.3	1422	5040	7.4	208	5660	7.2	475	4960	7.5	455	5040

Print Date: 11/16/2010

Dissolved Oxygen -October 2010

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
10/1/2010	5.2	5.7	7.1	7.6	7.5	7.8	5.9		5.2
10/2/2010	7.4	7.8	7.8	8.1	8.0	7.7	8.0		7.4
10/3/2010	7.6	7.9	7.9	7.7	7.6	7.5	8.1		7.5
10/4/2010	7.4	7.7	7.9	7.8	7.5	7.2	7.7		7.2
10/5/2010	7.1	7.2	7.5	7.4	7.4	7.3	7.1		7.1
10/6/2010	7.3	7.0	7.7	7.7	7.4	7.2	6.4		6.4
10/7/2010	7.4	7.7	7.8	7.5	7.2	7.1	7.5		7.1
10/8/2010	7.2	7.5	7.6	7.5	7.2	7.1	7.6		7.1
10/9/2010	7.2	7.5	7.4	7.6	7.2	7.1	7.5		7.1
10/10/2010	7.1	7.5	7.6	7.5	7.4	7.1	7.4		7.1
10/11/2010	7.2	7.3	7.3	7	6.8	6.7	7.5		6.7
10/12/2010	6.5	6.2	6.6	6.6	6.4	6.4	6.4		6.2
10/13/2010	6.7	6.8	6.5	6.7	6.8	6.8	6.9		6.5
10/14/2010	7.0	7.2	7.3	7.4	7.2	7.1	7.2		7.0
10/15/2010	7.0	7.2	7.6	7.9	7.8	7.8	7.2		7.0
10/16/2010	7.9	8.3	8.3	8.1	8.0	8.0	8.7		7.9
10/17/2010	8.1	8.3	8.2	8.1	7.6	7.4	8.6		7.4
10/18/2010	7.4	7.7	7.8	7.5	7.3	7.2	7.9		7.2
10/19/2010	7.1	7.2	7.4	7.0	6.9	6.9	7.9		6.9
10/20/2010	7.2	7.5	7.3	7.1	7.2	7.0	7.2		7.0
10/21/2010	7.1	7.1	7.5	7.5	7.3	7.1	7.2		7.1
10/22/2010	7.2	7.5	7.4	7.7	7.3	7.4	7.7		7.2
10/23/2010	7.5	7.9	7.9	7.8	7.6	7.6	8.3		7.5
10/24/2010	7.7	7.8	7.8	7.6	7.3	7.0	8.2		7.0
10/25/2010	7.1	7.2	7.2	7.1	6.8	6.6	6.5		6.5
10/26/2010	6.8	6.8	6.8	6.6	6.5	6.4	6.7		6.4
10/27/2010	6.5	6.4	6.3	6.2	6.1	6.2	6.5		6.1
10/28/2010	6.4	6.6	6.6	7.0	7.1	7.1	6.5		6.4
10/29/2010	7.2	7.2	7.2	7.2	7.2	7.2	7.5		7.2
10/30/2010	7.3	7.4	7.7	8.0	7.7	7.4	7.7		7.3
10/31/2010	7.3	7.4	7.6	7.8	7.6	7.5	7.5		7.3
Min	5.20	5.70	6.30	6.20	6.10	6.20	5.9	Min	5.20
Max	8.10	8.30	8.30	8.10	8.00	8.00	8.7	Max	7.90
								Avg	6.93

	October 2010 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Oct	0.02	0.00	0.01	0.03	0.01	0.02	0.02	
2-Oct	0.03	0.01	0.12	0.05	0.04	0.02	0.05	
3-Oct	0.03	0.04	0.03	0.04	0.02	0.03	0.03	
4-Oct	0.00	0.02	0.04	0.05	0.02	0.00	0.02	
5-Oct	0.00	0.02	0.01	0.01	0.01	0.00	0.01	
6-Oct	0.01	0.02	0.02	0.02	0.03	0.02	0.02	
7-Oct	0.00	0.02	0.03	0.02	0.02	0.01	0.02	
8-Oct	0.02	0.03	0.04	0.02	0.03	0.03	0.03	
9-Oct	0.01	0.03	0.04	0.04	0.02	0.00	0.02	
10-Oct	0.02	0.05	0.03	0.05	0.03	0.03	0.04	
11-Oct	0.00	0.02	0.04	0.03	0.02	0.04	0.03	
12-Oct	0.03	0.03	0.03	0.01	0.04	0.03	0.03	
13-Oct	0.02	0.04	0.05	0.02	0.02	0.03	0.03	
14-Oct	0.01	0.10	0.03	0.02	0.04	0.01	0.04	
15-Oct	0.02	0.06	0.01	0.02	0.01	0.03	0.03	
16-Oct	0.04	0.05	0.05	0.02	0.01	0.02	0.03	
17-Oct	0.03	0.03	0.04	0.04	0.02	0.02	0.03	
18-Oct	0.03	0.04	0.06	0.03	0.02	0.03	0.04	
19-Oct	0.01	0.02	0.04	0.02	0.03	0.03	0.03	
20-Oct	0.03	0.03	0.03	0.04	0.01	0.01	0.03	
21-Oct	0.01	0.03	0.03	0.02	0.02	0.02	0.02	
22-Oct	0.02	0.05	0.04	0.02	0.03	0.00	0.03	
23-Oct	0.00	0.04	0.05	0.03	0.01	0.03	0.03	
24-Oct	0.03	0.06	0.06	0.04	0.02	0.03	0.04	
25-Oct	0.02	0.03	0.06	0.03	0.02	0.04	0.03	
26-Oct	0.02	0.04	0.02	0.02	0.03	0.02	0.03	
27-Oct	0.03	0.03	0.03	0.04	0.03	0.03	0.03	
28-Oct	0.04	0.05	0.03	0.02	0.03	0.01	0.03	
29-Oct	0.03	0.04	0.03	0.02	0.02	0.02	0.03	
30-Oct	0.00	0.05	0.05	0.04	0.02	0.03	0.03	
31-Oct	0.03	0.11	0.04	0.05	0.04	0.02	0.05	
Average	0.02	0.04	0.04	0.03	0.02	0.02	0.03	
Minimum	0.00	0.00	0.01	0.01	0.01	0.00		
Maximum	0.04	0.11	0.12	0.05	0.04	0.04		

Discharge Monitoring Report Supplemental Bio-Solids Report ***for the Month*** October 2010

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	**=** 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 20.05	X 0.01	= 0.00
0.00	X 20.05	X 0.01	= 0.00
0.00	X 20.05	X 0.01	= 0.00
857.65	X 20.05	X 0.01	= 171.96
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	**=** 171.96

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	171.96
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Utilities Manager
Title

610-655-6258
Telephone

11/22/10
Date

City of Reading 3-C Watershed *for the Month* October 2010

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		**MM/DD/YYYY**
FROM	09/01/2010	**TO**	09/30/2010

RECEIVED
EPA REGION III
OCT 25 2010
WATER PROTECTION DIVISION
(3WP00)

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	73	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	5.1	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	7.9		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1269	2087		******	10	12		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	150	******		******	0.9	******		0	Daily	COMP24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	14.73	35.78		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.04	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		10/20/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607

FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		**MM/DD/YYYY**
FROM	09/01/2010	**TO**	09/30/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.00842	******		******	<0.00007	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	XXX 17	******		0	Daily	GRAB
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	200 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	987	1462		******	8	8		0	Daily	COMP24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		10/20/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

none

	September 2010					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
29-Aug		13	7	12		12.97									
30-Aug		11	11	8		15.29									
31-Aug		13	8	10		14.42									
1-Sep	23.8	16	9	8	0.4	13.77	6.5	7.7	0.78		19	75	0.00	63	96
2-Sep	25.0	10	7	9	0.2	13.79	6.5	7.5	0.44		44	65	0.00	66	97
3-Sep	23.9	13	8	12	0.2	13.59	6.4	7.7	0.38		50	75	0.00	68	93
4-Sep	23.8	12	8	7	0.4	12.87	6.1	7.6	0.36		146	75	0.00	55	77
5-Sep	22.1	13	7	9	0.3	12.28	7.0	7.9	0.53		52	75	0.00	49	76
6-Sep	21.6	15	9	8	0.1	14.08	7.3	7.5	0.48		121	75	0.00	47	82
7-Sep	22.6	12	6	11	0.1	15.22	6.5	7.6	0.50		110	65	0.00	59	90
8-Sep	23.3	12	6	10	0.7	14.24	6.8	7.4	0.55		266	75	0.00	63	87
9-Sep	22.1	11	6	12	0.1	13.28	7.3	7.5	0.59		39	75	0.00	52	72
10-Sep	21.8	9	5	8	0.6	12.72	7.4	7.5	0.68		14	75	0.00	56	74
11-Sep	21.1	14	7	11	0.3	13.55	7.6	7.3	0.95		4	65	0.00	51	83
12-Sep	21.9	11	6	11	0.2	15.66	7.1	7.3	1.23		1	75	0.48	57	64
13-Sep	21.7	12	7	9	0.6	14.21	6.9	7.5	0.61		9	75	0.00	55	81
14-Sep	21.9	12	8	9	0.6	13.62	7.0	7.5	0.65		3	75	0.00	51	78
15-Sep	20.9	11	8	9	0.1	12.66	7.3	7.5	0.56		10	75	0.00	49	79
16-Sep	21.2	16	9	10	0.3	15.33	7.4	7.6	0.56		19	75	0.26	51	76
17-Sep	21.6	16	10	5	0.5	12.96	7.1	7.6	0.99		12	65	0.17	51	77
18-Sep	21.4	12	7	6	0.3	12.87	7.3	7.7	0.50		54	65	0.00	48	77
19-Sep	21.8	12	9	12	1.0	13.74	7.0	7.7	0.57		31	75	0.00	51	85
20-Sep	22.5	15	8	10	0.2	13.40	7.1	7.6	0.82		4	65	0.00	50	78
21-Sep	21.6	15	9	9	1.7	14.48	6.9	7.7	0.60		40	65	0.00	43	79
22-Sep	21.8	13	7	10	3.8	14.41	6.4	7.5	1.15		3	85	0.08	54	91
23-Sep	23.3	12	9	10	1.3	14.41	6.4	7.5	1.66		2	85	0.01	60	83
24-Sep	22.4	12	7	8	2.3	13.19	6.4	7.5	0.77		9	75	0.00	66	92
25-Sep	23.7	8	5	10	0.5	12.68	6.4	7.5	0.73		9	75	0.00	61	87
26-Sep	24.0	9	7	10	0.4	14.07	6.4	7.5	0.81		14	75	0.00	58	74
27-Sep	21.9	9	7	8	2.8	16.04	6.9	7.5	0.73		16	75	0.42	61	72
28-Sep	22.9	8	6	10	0.8	14.55	6.7	7.5	1.29		1	75	0.02	64	81
29-Sep	22.1	10	6	14	0.1	18.46	7.0	7.7	0.53		28	85	0.00	54	74
30-Sep	22.8	24	16	19	6.9	35.780	5.1	7.5	1.12		40	65	5.19	62	76
1-Oct		13	8	14	0.3	19.640									
2-Oct		8	5	7	0.3	17.76									
				<		See DO profile					<				
TOTAL		395	242	315	28.0	479.3	###	226.7	22.12			2200	6.63	1675	2431
Week 1	23.3	13	8	9	0.2	13.66	6.62	7.65	0.50		77	72		58	87
Week 2	22.0	12	7	10	0.4	13.90	7.15	7.43	0.75		48	74	0	55	77
Week 3	21.6	14	8	8	0.6	13.63	7.17	7.64	0.66		24	69	0	49	79
Week 4	22.9	10	8	10	1.7	14.19	6.51	7.49	1.02		8	78	0	61	83
Week 5		14	8	12											
Monthly	22.4	12	8	10	0.9	14.73	6.81	7.56	0.74		17	73	0.22	56	81
Only highlighted weekly averages have been adjusted as stated below.															
Min =	20.9	8	5	5	0.1	12.28	5.1	7.3	0.36		1	65	0	43	64
Max =	25.0	24	16	19	6.9	35.78	7.6	7.9	1.66		266	85	5	68	97
Weekly averages: 8/29-9/4, 9/5-11, 9/12-18, 9/19-25 and 9/26-10/2.															
DISCHARGE LIMITATIONS															
Ave Monthly			20	30	6		Min	6.0			200	186			
Ave Weekly			30	45			of	to							
Inst. Max:			40	60	12		5.0	9.0				465			

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Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
29-Aug								757						1,298								
30-Aug								1,403						1,020								
31-Aug								962						1,203								
1-Sep	6,020	40,392	46,411	699		47,110	1,837	1,034	4,465	56,701	61,166	-15,209	45,957	919	10,894	506	1,684	2191	1,511	1,836	3,702	47
2-Sep	5,105	42,667	47,773	-1,749	323	46,024	1,150	805	4,238	23,723	27,961	16,180	44,141	1,035	10,959	564	2,022	2,587	1,984	1,545	4,571	18
3-Sep	5,309	48,714	54,023	-3,649		50,374	1,473	907	3,964	30,715	34,678	30,203	64,881	1,360	7,217	555	2,015	2,569	886	925	3,456	24
4-Sep	5,437	39,163	44,600	-285		44,315	1,288	859	5,640	27,045	32,685	2,768	35,452	751	5,056	525	1,810	2,336	443	1,329	2,779	38
5-Sep	6,425	40,445	46,870	-11,090		35,780	1,331	717	6,550	36,858	43,408	-7,628	35,780	922	163	505	1,847	2,352	-346	27	2,006	27
6-Sep	6,071	40,449	46,520	2,359		48,879	1,761	1,057	6,196	23,137	29,333	-4,486	24,847	939	0	574	1,917	2,491	106		2,597	12
7-Sep	5,040	39,825	44,865	-7,245	239	37,620	1,523	762	5,613	52,027	57,640	-14,168	43,472	1,396	7,976	548	2,042	2,590	1,789	64	4,379	13
8-Sep	5,721	45,874	51,595	-2,148		49,448	1,425	713	5,987	114,927	120,914	-84,181	36,733	1,188	13,118	586	1,883	2,470	1,426	1,980	3,895	83
9-Sep	5,248	35,991	41,239	-2,175	309	39,064	1,218	665	5,692	66,224	71,915	-23,436	48,479	1,329	5,853	529	1,992	2,520	1,947	1,639	4,467	11
10-Sep	3,730	38,218	41,949	4,619		46,567	955	530	3,428	30,900	34,328	15,608	49,936	849	4,999	554	1,943	2,498	1,267	1,316	3,765	67
11-Sep	7,386	37,590	44,976	398		45,374	1,582	791	9,458	22,711	32,168	10,886	43,055	1,243	4,380	520	2,686	3,206	262	425	3,469	36
12-Sep	5,591	40,825	46,416	-1,720	254	44,696	1,437	784	6,884	38,326	45,210	36,094	81,304	1,437	7,256	513	1,366	1,879	2,452	99	4,331	25
13-Sep	6,375	43,545	49,920	19,820		69,740	1,422	830	5,680	26,288	31,969	45,251	77,219	1,067	12,990	576	1,790	2,366	2,798	3,986	5,165	68
14-Sep	5,202	42,970	48,171	-846		47,325	1,363	909	9,093	70,259	79,352	-36,192	43,161	1,022	4,009	522	1,500	2,022	1,868	2,271	3,890	63
15-Sep	5,286	51,620	56,906	-20,964		35,942	1,161	845	5,305	69,354	74,659	-44,571	30,088	950	5,406	577	2,065	2,642	1,353	2,012	3,995	11
16-Sep	6,225	46,018	52,242	1,197	237	53,439	2,046	1,151	5,781	48,364	54,145	-2,042	52,103	1,279	7,556	591	1,958	2,549	2,494	2,262	5,043	33
17-Sep	3,570	49,089	52,659	631		53,289	1,729	1,081	4,498	46,544	51,041	-1,015	50,027	540	4,705	687	2,182	2,869	1,764	3,079	4,633	51
18-Sep	5,369	29,732	35,101	6,227		41,329	1,288	751	19,107	21,169	40,277	26,473	66,750	644	4,250	539	1,386	1,924	922	3,230	2,846	31
19-Sep	5,694	36,545	42,239	-13,895	207	28,344	1,375	1,031	5,903	58,625	64,528	-41,814	22,714	1,375	5,280	622	1,911	2,533	399	3,367	2,931	112
20-Sep	5,693	44,955	50,647	860		51,508	1,676	894	6,444	38,295	44,739	23,046	67,784	1,118	6,455	561	1,873	2,434	2,603	3,459	5,037	21
21-Sep	5,550	46,577	52,128	126	766	52,254	1,811	1,087	5,611	79,985	85,595	-23,493	62,102	1,087	9,493	589	1,767	2,356	2,256	4,346	4,612	202
22-Sep	5,147	47,661	52,809	-14,799		38,009	1,562	841	4,814	112,371	117,185	-88,540	28,645	1,202	8,500	530	2,126	2,656	2,478	2,083	5,134	452
23-Sep	5,548	37,192	42,740	-3,387	330	39,353	1,442	1,082	5,394	32,560	37,954	1,577	39,532	1,202	7,539	530	1,635	2,165	1,636	2,700	3,801	159
24-Sep	8,932	50,329	59,261	-14,562		44,698	1,320	770	5,499	28,184	33,683	-13,188	20,496	880	3,740	510	2,105	2,614	493	1,883	3,107	251
25-Sep	6,330	40,546	46,876	19,032		65,909	846	529	5,027	32,265	37,292	20,875	58,167	1,058	4,147	519	1,967	2,486	1,228	95	3,714	49
26-Sep	4,128	27,639	31,767	2,490	277	34,257	1,056	821	4,879	26,644	31,523	17,199	48,722	1,173	8,458	765	1,360	2,125	1,179	152	3,304	43
27-Sep	5,789	38,045	43,834	-9,379		34,455	1,204	936	5,487	32,438	37,925	-6,474	31,451	1,070	9,794	575	1,415	1,990	1,094	5,283	3,083	375
28-Sep	5,086	58,291	63,377	-21,187		42,189	971	728	5,248	59,956	65,204	-30,877	34,327	1,213	8,153	581	1,832	2,413	1,211	3,908	3,624	99
29-Sep	5,256	44,043	49,299	1,345		50,644	1,540	924	5,204	99,831	105,035	-42,378	62,658	2,155	8,701	703	1,844	2,547	2,635	4,149	5,182	15
30-Sep	8,816	46,925	55,742	32,288		88,030	7,162	4,774	11,381	92,978	104,359	-16,628	87,731	5,670	6,368	705	1,443	2,148	209	3,048	2,357	2,056
1-Oct							2,129	1,310						2,293								53
2-Oct							1,185	741						1,037								39
TOTAL	171,079	1,271,876	1,442,955	-36,989	2,942	1,405,966	51,272	31,656	188,471	1,499,401	1,687,872	-250,160	1,437,712	41,403	203,417	17,161	55,367	72,528	42,349	62,499	114,876	4,584
Week 1	5,630	41,665	47,295	-2,994	281	44,300	1,437	961	5,238	35,744	40,982	1,094	42,076	1,084	7,044	540	1,905	2,445	910	955	3,355	25
Week 2	5,608	40,716	46,324	2,564	281	48,888	1,399	748	6,603	52,805	59,408	-5,139	54,269	1,124	7,515	543	1,880	2,423	1,717	1,674	4,140	51
Week 3	5,341	43,505	48,846	-3,688	403	45,158	1,492	907	7,521	51,762	59,283	-9,059	50,224	991	6,164	595	1,877	2,472	1,684	3,108	4,157	66
Week 4	5,852	42,815	48,666	-5,970	303	42,696	1,433	891	5,193	46,345	51,538	-14,204	37,334	1,132	7,190	573	1,777	2,350	1,331	2,301	3,681	204
Week 5							2,178	1,462						2,087								
Monthly	5,703	42,396	48,098	-1,233	327	46,866	1,599	987	6,282	49,980	56,262	-8,339	47,924	1,269	7,014	572	1,846	2,418	1,412	2,155	3,829	150
Min =	3570	27639	31767	-21187	207	28,344	846	529	3,428	21,169	27,961	-88,540	20,496	540	0	505	1,360	1,879	-346	27	2,006	11
Max =	8932	58291	63377	32288	766	88,030	7,162	4,774	19,107	114,927	120,914	45,251	87,731	5,670	13,118	765	2,686	3,206	2,798	5,283	5,182	2,056
								3,336						7,130								1,000
								5,004						10,696								

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	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Sep								
2-Sep								
3-Sep								
4-Sep								
5-Sep								
6-Sep								
7-Sep	0.00020	0.00395	0.00010	0.00847	0.00030	0.03135	< 0.00007	< 0.00889
8-Sep	0.00030	0.00613	0.00009	0.00724	0.00040	0.04037	< 0.00007	< 0.00831
9-Sep								
10-Sep								
11-Sep								
12-Sep								
13-Sep								
14-Sep	0.00010	0.00193	0.00030	0.02262	0.00040	0.03786	< 0.00007	< 0.00795
15-Sep								
16-Sep								
17-Sep								
18-Sep								
19-Sep								
20-Sep								
21-Sep	0.00030	0.00605	0.00010	0.00803	0.00030	0.03015	< 0.00007	< 0.00845
22-Sep								
23-Sep								
24-Sep								
25-Sep								
26-Sep								
27-Sep								
28-Sep	< 0.00007	< 0.00141	0.00030	0.02271	0.00040	0.03835	< 0.00007	< 0.00849
29-Sep								
30-Sep								
1-Oct								
2-Oct								
Total	0.00097	0.01948	0.00089	0.06907	0.00180	0.17808	0.00035	0.04210
Week 1	0.00020	0.00395	0.00010	0.00847	0.00030	0.03135	< 0.00007	< 0.00889
Week 2	0.00020	0.00403	0.00020	0.01493	0.00040	0.03911	< 0.00007	< 0.00813
Week 3	0.00030	0.00605	0.00010	0.00803	0.00030	0.03015	< 0.00007	< 0.00845
Week 4	< 0.00007	< 0.00141	0.00030	0.02271	0.00040	0.03835	< 0.00007	< 0.00849
Week 5								
Monthly	< 0.00019	< 0.00390	0.00018	0.01381	0.00036	0.03562	< 0.00007	< 0.00842
Min =	< 0.00007	< 0.00141	0.00009	0.00724	0.00030	0.03015	< 0.00007	< 0.00795
Max =	0.00030	0.00613	0.00030	0.02271	0.00040	0.04037	< 0.00007	< 0.00889
							0.00023	0.055
							0.00046	

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	September 2010				City of Reading Wastewater Treatment Plant															Laboratory Process Control Data									
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent				Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
29-Aug																																
30-Aug																																
31-Aug																																
1-Sep	302	224	7.4	25.4	530	744	6.9	22.1	483	636	22.8	7	-158	15.7	490	478	38.5	6.8	11.53	262	51	26.0	6.3	44	47	21.0	380	7.1	32	41	9.8	200
2-Sep	265	220	7.4	29.3	500	278	6.8	23.7	457	267	24.7	-17	155	19.0	440	422	43.7	6.8	12.54	280	45	29.0	6.3	40	48	20.5		6.9	28	23	9.4	
3-Sep	292	218	7.4	30.5	590	372	6.9	24.4	536	344	25.5	-36	300	8.8	500	644	34.3	6.4	12.08	398	54	25.9	6.3	50	39	18.4	360	7.2	26	12	8.8	220
4-Sep	295	306	7.2	28.5	530	366	7.0	24.5	483	354	25.3	-3	30	4.8	480	384	30.1	6.6	11.07	302	54	23.2	6.3	45	58	16.1		7.2	24	17	5.6	
5-Sep	360	367	7.2	28.3	530	483	6.9	24.2	498	461	25.0	-118	-81	-3.7	380	380	21.3	6.5	11.29	268	69	24.3	6.3	51	56	17.9		7.1	21	13	6.2	
6-Sep	290	296	7.4	27.4	500	286	6.9	23.7	457	288	24.5	23	-44	1.0	480	244	25.5	6.6	12.21	322	73	23.0	6.4	54	43	14.7		7.2	19	3	5.5	
7-Sep	255	284	7.5	27.7	470	614	6.9	24.1	429	552	24.8	-69	-136	17.1	360	416	41.9	6.7	12.53	238	63	27.7	6.3	35	39	18.0		6.8	22	13	6.9	
8-Sep	280	293	7.4	28.7	570	1428	7.0	23.4	511	1198	24.5	-21	-834	14.1	490	364	38.6	7.0	12.10	252	61	29.3	6.5	70	52	18.1	300	7.0	26	19	8.6	220
9-Sep	260	282	7.5	26.2	450	828	6.7	24.9	412	718	25.2	-22	-234	19.4	390	484	44.6	6.7	12.01	228	59	27.0	6.6	45	57	17.8		7.3	ns	ns	ns	
10-Sep	210	193	7.7	31.2	470	380	6.8	23.9	423	346	25.2	47	158	12.8	470	504	38.0	6.7	11.88	248	67	29.2	6.5	54	53	19.2	260	7.2	33	19	10.7	160
11-Sep	328	420	7.6	23.1	480	290	7.0	34.3	446	319	31.8	4	108	2.6	450	427	34.4	6.7	12.09	268	56	25.9	6.4	66	67	16.2		7.2	32	13	6.9	
12-Sep	242	298	7.5	22.2	490	460	7.0	16.4	436	425	17.7	-16	339	23.0	420	764	40.7	7.0	12.76	230	72	26.5	6.5	46	56	17.6		7.1	24	23	7.5	
13-Sep	312	278	7.4	28.2	540	326	6.8	22.2	494	316	23.4	196	448	27.7	690	764	51.1	6.9	12.12	272	58	28.6	6.6	52	48	19.3	280	7.1	22	15	9.4	200
14-Sep	270	472	7.4	27.1	570	932	6.8	19.9	509	838	21.4	-9	-382	19.7	500	456	41.1	6.3	11.35	280	71	30.5	6.4	44	33	19.1		6.7	29	19	9.1	
15-Sep	272	273	7.4	29.7	620	833	6.8	24.8	554	727	25.7	-204	-434	13.2	350	293	38.9	6.4	12.31	298	49	32.4	6.3	42	33	20.1	320	7.3	26	19	8.7	200
16-Sep	295	274	7.5	28.0	510	536	6.8	21.7	469	486	22.9	11	-18	22.4	480	468	45.3	6.6	13.35	298	57	30.3	6.3	47	48	19.8		6.8	26	14	8.6	
17-Sep	200	252	7.5	38.5	540	512	6.9	24.0	484	469	26.4	6	-9	16.2	490	460	42.6	6.6	13.04	315	78	30.4	6.3	69	31	18.9	300	7.0	25	3	9.2	240
18-Sep	290	1032	7.7	29.1	500	356	7.1	23.3	450	517	24.7	80	339	11.8	530	856	36.5	6.7	9.35	330	66	28.5	6.6	46	49	19.2		7.3	24	11	8.1	
19-Sep	272	282	7.6	29.7	480	770	7.4	25.1	435	665	26.1	-143	-431	4.1	292	234	30.2	6.5	11.64	278	58	26.1	6.7	46	47	18.7		7.2	24	13	8.4	
20-Sep	288	326	7.5	28.4	540	460	6.9	22.5	492	434	23.6	8	224	25.3	500	658	48.9	6.7	12.35	292	68	28.7	6.5	46	57	17.1	280	7.1	25	15	7.4	200
21-Sep	275	278	7.5	29.2	580	996	6.7	22.0	519	852	23.4	1	-234	22.5	520	618	45.9	6.6	12.05	300	70	31.0	6.5	57	53	21.5		7.3	30	15	10.1	
22-Sep	278	260	7.4	28.6	520	1226	6.8	23.2	479	1064	24.1	-134	-804	22.5	345	260	46.6	6.7	13.21	292	67	31.2	6.4	56	46	23.1	320	7.1	30	17	11.2	260
23-Sep	288	280	7.4	27.5	530	464	6.8	23.3	478	424	24.2	-38	18	18.3	440	442	42.5	7.0	10.72	ns	ns	ns	6.3	48	39	20.2		7.0	ns	ns	ns	
24-Sep	510	314	7.3	29.1	550	308	6.8	23.0	544	309	24.0	-134	-121	4.5	410	188	28.5	6.6	13.07	338	65	27.4	6.3	77	49	22.3	340	7.0	37	22	12.4	240
25-Sep	345	274	7.0	28.3	470	374	6.6	22.8	448	356	23.8	182	200	11.7	630	556	35.5	6.6	12.54	312	64	28.1	6.2	54	45	19.9		7.1	26	9	8.8	
26-Sep	198	234	7.2	36.7	500	482	6.9	24.6	417	414	27.9	33	226	15.5	450	640	43.4	6.9	9.13	300	56	30.1	6.4	48	37	21.8		7.3	29	15	9.0	
27-Sep	268	254	6.0	26.6	570	486	6.0	21.2	496	429	22.5	-106	-73	12.4	390	356	34.9	7.0	10.59	NS	ns	ns	6.4	29	17	20.8	340	6.9	20	7	12.1	200
28-Sep	252	260	7.1	28.8	770	792	6.4	24.2	661	680	25.2	-221	-322	12.6	440	358	37.8	6.6	11.50	280	70	27.9	6.3	35	33	18.5		7.0	20	11	8.9	
29-Sep	202	200	7.6	27.0	480	1088	6.8	20.1	419	892	21.6	11	-360	22.4	430	532	44.0	6.7	14.12	270	71	28.6	6.3	42	44	19.0	240	7.2	32	22	7.9	200
30-Sep	110	142	6.8	8.8	215	426	6.7	6.6	187	350	7.2	108	-56	0.7	295	294	7.9	6.7	35.78	120	51	9.5	6.5	90	78	20.3		7.2	26	21	8.7	
1-Oct																			19.64													
2-Oct																			15.12													
TOTAL	8304	9086	220.3	837.8	15595	17896	205	684.1	14106	16132	714.9	-574	-2188	418.3	13532	13944	1133.2	###	417.08	7871	1743	766.3	###	1528	1402	575.1	3720	212.9	738	444	244.0	2540
Week 1	294	274	7.3	28.2	521	449	6.9	23.8	478	415	24.6	-30	9	9.0	447	424	33.6	6.6	11.89	296	58	25.6	6.3	46	47	18.1	370	7.1	25	17	7.5	210
Week 2	272	319	7.5	26.7	510	663	6.9	23.6	462	594	24.2	26	-57	17.1	487	538	41.2	6.7	12.04	254	63	28.1	6.5	54	52	18.2	280	7.1	28	18	8.7	193
Week 3	270	388	7.5	30.4	539	638	6.9	23.3	486	593	24.7	-34	-80	16.5	452	512	41.2	6.6	12.01	302	64	29.6	6.5	50	45	19.3	300	7.1	26	13	8.6	213
Week 4	306	268	7.1	29.4	559	590	6.6	23.2	503	525	24.5	-60	-125	13.9	444	400	38.5	6.7	11.54	304	64	28.9	6.3	50	38	20.9	333	7.1	27	14	10.4	233
Week 5																																
Monthly	277	303	7.3	27.9	520	597	6.8	22.8	470	538	23.8	-19	-73	13.9	451	465	37.8	6.7	12.74	281	62	27.4	6.4	51	47	19.2	310	7.1	26	16	8.7	212
Min =	110	142	6.0	9	215	278	6.0	7	187	267	7.2	-221	-834	-3.7	292	188	7.9	6.3	9.13	120	45	9.5	6.2	29	17	14.7	240	6.7	19	3	5.5	160
Max =	510	1032	7.7	39	770	1428	7.4	34	661	1198	31.8	196	448	27.7	690	856	51.1	7.0	35.78	398	78	32.4	6.7	90	78	23.1	380	7.3	37	41	12.4	260
									%Removal						%Removal																	
									97.35	98.18	96.16				97.24	97.89	97.58															

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		Final Settling								Filtrate		
chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
155	6.8	26	12	11	0.5	180			7.1		2100	354
160	6.8	21	14	11	0.2				7.1	59	2000	282
170	6.6	21	14	5	0.2	180			7.2		1700	218
160	6.9	23	13	6	0.3				7.1		1400	368
155	7.0	21	13	13	0.1				7.3		1400	235
155	7.0	20	20	6	0.1		7.9	0.034	7.4		0	
160	6.9	20	14	9	0.1				7.0	36	1200	10
145	6.9	20	11	10	0.7	140			7.2		2100	317
ns	7.1	18	11	13	0.0				7.6	58	1100	308
185	7.0	17	10	5	0.7	140			7.3		1800	474
165	7.3	20	12	7	0.2				7.4		1300	126
115	7.1	20	12	17	0.2				7.3	42	1200	16
135	6.8	22	16	7	0.6	140	11.1	0.131	7.5		2200	675
155	6.8	20	12	12	0.4				6.7		1100	623
170	6.9	16	10	19	0.1	140			7.1		1400	521
175	7.0	23	12	13	0.3				6.9	47	1500	449
175	6.8	21	12	4	0.4	180			7.2		1400	916
155	7.2	20	12	7	0.3				7.8		1300	988
140	7.0	20	11	12	0.4				8.5	51	1300	829
135	7.0	22	13	11	0.1	180	11.5	0.105	7.3		1200	643
155	7.2	22	14	10	2.2				7.4	113	1400	641
170	7.0	27	14	15	3.8	160			7.3		1600	392
ns	6.9	21	12	7	1.3				6.9	70	1600	573
170	6.9	30	16	ns	2.1	180			6.5		1500	755
170	6.9	24	15	13	0.4				7.1		1100	25
165	7.0	22	12	5	0.4				7.4	36	1100	20
140	6.9	22	15	5	2.6	180			6.9		1600	863
165	6.8	14	17	16	0.9		7.4	0.267	7.0		1600	767
115	7.0	21	14	15	0.1	180			7.4		1380	658
105	6.9	35	24	25	7.2				7.4		1500	718
4320	208.2	649	407	309	26.8	1980	37.9	0.537	217.0	512	43080	13764
159	6.9	22	14	9	0.2	180	7.9	0.034	7.2	48	1633	244
150	7.0	20	12	10	0.4	140	11.1	0.131	7.3	50	1543	363
158	7.0	21	12	11	0.5	167	11.5	0.105	7.4	70	1357	712
163	6.9	23	14	10	1.6	173	7.4	0.267	7.0	53	1443	485
154	6.9	22	14	11	0.9	165	9.5	0.134	7.2	57	1436	475
105	6.6	14	10	4	0.0	140	7.4	0.034	6.5	36	0	10
185	7.3	35	24	25	7.2	180	11.5	0.267	8.5	113	2200	988

September 2010

DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
	Flow (MGD)																	
29-Aug							12.970											
30-Aug							15.290											
31-Aug							14.420											
1-Sep	9.138	1.650	0.672	2.390	OOS	11.528	13.770	7.010	4.650	0.622	61	40						
2-Sep	10.232	1.603	0.702	2.310	OOS	12.542	13.790	7.720	5.430	0.657	62	43						
3-Sep	9.900	1.564	0.620	2.180	OOS	12.080	13.590	8.690	5.160	0.509	72	43						
4-Sep	8.860	1.496	0.564	2.210	OOS	11.070	12.870	8.880	4.830	0.433	80	44						
5-Sep	9.150	1.548	0.572	2.140	OOS	11.290	12.280	8.510	4.470	0.014	75	40						
6-Sep	9.700	1.931	0.657	2.510	OOS	12.210	14.080	9.210	4.800	0.406	75	39						
7-Sep	10.160	1.635	0.669	2.370	OOS	12.530	15.220	9.800	4.770	0.797	78	38						
8-Sep	9.650	1.676	0.677	2.450	OOS	12.100	14.240	5.070	5.160	0.749	42	43						
9-Sep	9.590	1.629	0.715	2.420	OOS	12.010	13.280	3.060	5.400	0.638	25	45						
10-Sep	9.750	1.491	0.616	2.130	OOS	11.880	12.720	6.750	4.630	0.333	57	39						
11-Sep	9.390	1.724	0.614	2.700	OOS	12.090	13.550	7.480	5.010	0.404	62	41						
12-Sep	9.990	1.632	0.684	2.770	OOS	12.760	15.660	7.580	5.010	0.725	59	39						
13-Sep	9.669	1.779	0.697	2.450	OOS	12.119	14.210	7.640	4.950	0.708	63	41						
14-Sep	9.039	1.558	0.684	2.310	OOS	11.349	13.620	8.790	4.870	0.437	77	43						
15-Sep	9.983	1.625	0.686	2.330	OOS	12.313	12.660	9.030	4.810	0.463	73	39						
16-Sep	10.819	1.607	0.744	2.530	OOS	13.349	15.330	7.390	5.620	0.604	55	42						
17-Sep	10.900	1.535	0.642	2.140	OOS	13.040	12.960	6.740	4.720	0.403	52	36						
18-Sep	7.130	1.541	0.556	2.220	OOS	9.350	12.870	7.320	4.640	0.392	78	50						
19-Sep	9.129	1.916	0.659	2.510	OOS	11.639	13.740	7.950	4.790	0.487	68	41						
20-Sep	9.982	1.638	0.695	2.370	OOS	12.352	13.400	7.360	5.040	0.645	60	41						
21-Sep	9.629	1.511	0.782	2.420	OOS	12.049	14.480	7.040	5.090	0.813	58	42						
22-Sep	10.990	1.623	0.676	2.220	OOS	13.210	14.410	7.220	5.010	0.637	55	38						
23-Sep	8.414	1.691	0.678	2.310	OOS	10.724	14.410	6.970	5.120	0.565	65	48						
24-Sep	10.972	1.574	0.642	2.100	OOS	13.072	13.190	7.310	3.630	0.299	56	28						
25-Sep	10.344	1.449	0.583	2.200	OOS	12.544	12.680	12.410	1.890	0.452	99	15						
26-Sep	6.628	1.863	0.713	2.500	OOS	9.128	14.070	12.660	1.180	0.922	139	13						
27-Sep	8.003	1.777	0.769	2.590	OOS	10.593	16.040	12.600	4.810	0.734	119	45						
28-Sep	9.077	1.780	0.773	2.420	OOS	11.497	14.550	13.280	4.750	0.611	116	41						
29-Sep	11.002	1.852	0.625	3.120	OOS	14.122	18.460	12.470	5.260	0.756	88	37						
30-Sep	26.170	6.697	1.697	9.610	OOS	35.780	35.780	0.780	0.000	0.509	2	0	09:50	11:30				
1-Oct	14.950			4.690	OOS	19.640	19.640											
2-Oct	11.720			3.400	OOS	15.120	17.760											
Total	330.060	54.595	21.063	87.020	0.000	382.320	441.910	244.720	135.500	16.724	2073	1135						
Week 1	9.591	1.632	0.637	2.301	#DIV/0!	11.893	13.657	8.546	4.873	0.491	72	41						
Week 2	9.583	1.641	0.670	2.461	#DIV/0!	12.044	13.897	6.624	5.004	0.571	55	42						
Week 3	9.653	1.625	0.681	2.360	#DIV/0!	12.013	13.634	7.547	4.959	0.544	64	42						
Week 4	9.204	1.680	0.691	2.334	#DIV/0!	11.538	14.193	10.350	3.770	0.603	93	33						
Week 5																		
Monthly	10.113	1.820	0.702	2.631	#DIV/0!	12.744	14.730	8.157	4.517	0.557	69	38						
Min =	6.628	1.449	0.556	2.100	0.000	9.128	12.280	0.780	0.000	0.014	2	0						
Max =	26.170	6.697	1.697	9.610	0.000	35.780	35.780	13.280	5.620	0.922	139	50						

Influent flow used due to inaccuracy of effluent flow metering over 25 MGD.

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	September 2010			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
29-Aug															
30-Aug															
31-Aug															
1-Sep	7.1	57	5140	7.1	117.00	4700	7.2	110	5000	6.8	880	1660	7.1	197	4980
2-Sep															
3-Sep	7.0		4840	7.0		4800	7.1		5220	7.0		1300	7.2		5160
4-Sep															
5-Sep															
6-Sep	ns		ns	ns		ns	ns		ns	ns		ns	ns		ns
7-Sep															
8-Sep	7.1	50	5380	7.1	83	3940	6.8	1133	3960	6.9	607	1780	7.1	50	5300
9-Sep															
10-Sep	7.2	50	5160	7.1	73	4740	7.4	213	5560	6.9	90	1320	7.1	73	5280
11-Sep															
12-Sep															
13-Sep	7.0	53	5300	7.2	210	4880	7.2	120	5900	7.1	43	2900	7.2	43	5520
14-Sep															
15-Sep	7.2	47	5100	7.1	43	5020	7.2	77	5620	7.1	60	4960	7.1	80	5240
16-Sep															
17-Sep	7.2		4680	7.2		4900	7.3		5440	7.1		1820	7.2		5140
18-Sep															
19-Sep															
20-Sep	7.2	67	4520	7.2	60	4840	7.3	83	5780	6.9	53	1180	7.1	70	2980
21-Sep															
22-Sep	7.3		4360	7.3		4420	7.5		5700	7.1		5100	7.1		5480
23-Sep															
24-Sep	7.4	113	4680	7.3	110	4080	7.5	73	5160	6.8	423	1480	7.2	90	5100
25-Sep															
26-Sep															
27-Sep	7.4	67	4500	7.2	970	3540	7.5	90	5740	7.0	83	4680	7.0	47	1660
28-Sep															
29-Sep	7.1		4500	6.9		3620	7.2		5700	7.1		4900	7.1		4940
30-Sep															
1-Oct															
2-Oct															
Total	86.1	504	58160	85.5	1666	53480	87.3	1899	64780	83.8	2239	33080	85.5	650	56780
Week 1	7.0	57	4990	7.0	117	4750	7.2	110	5110	6.9	880	1480	7.1	197	5070
Week 2	7.1	51	5280	7.1	122	4520	7.1	489	5140	7.0	247	2000	7.1	55	5367
Week 3	7.2	57	4767	7.1	52	4920	7.3	80	5613	7.0	57	2653	7.1	75	4453
Week 4	7.4	90	4513	7.3	540	4013	7.5	82	5533	7.0	253	3753	7.1	69	4080
Week 5															
Monthly	7.2	63	4847	7.1	208	4457	7.3	237	5398	7.0	280	2757	7.1	81	4732
Min =	7.0	47	4360	6.9	43	3540	6.8	73	3960	6.8	43	1180	7.0	43	1660
Max =	7.4	113	5380	7.3	970	5020	7.5	1133	5900	7.1	880	5100	7.2	197	5520

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Dissolved Oxygen -September 2010

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab
9/1/2010	6.9	7.0	6.9	7.0	6.8	6.5	6.6	6.5
9/2/2010	6.7	6.9	6.7	6.9	6.9	6.6	6.5	6.5
9/3/2010	6.7	6.8	6.4	6.6	6.6	6.6	6.6	6.4
9/4/2010	6.7	7.0	6.7	6.1	6.4	7.1	6.8	6.1
9/5/2010	7.3	7.3	7.2	7.0	7.2	7.4	7.5	7.0
9/6/2010	7.4	7.4	7.3	7.4	7.5	7.3	7.6	7.3
9/7/2010	7.4	7.2	6.5	7.1	7.2	7.1	7.2	6.5
9/8/2010	7.1	7.0	7.0	7.5	7.5	7.2	6.8	6.8
9/9/2010	7.5	7.7	7.7	7.8	7.8	7.6	7.3	7.3
9/10/2010	7.5	7.5	7.6	7.9	7.8	7.4	7.6	7.4
9/11/2010	7.6	7.8	7.9	7.9	7.8	7.6	7.8	7.6
9/12/2010	7.7	7.6	7.3	7.4	7.5	7.4	7.1	7.1
9/13/2010	7.5	7.5	7.1	7.2	7.0	6.9	7.4	6.9
9/14/2010	7.0	7.1	7.2	7.5	7.2	7.1	7.0	7.0
9/15/2010	7.3	7.4	7.6	7.6	7.7	7.6	7.6	7.3
9/16/2010	7.6	7.6	7.6	7.7	7.8	7.6	7.4	7.4
9/17/2010	7.3	7.2	7.2	7.2	7.2	7.3	7.1	7.1
9/18/2010	7.7	7.8	7.7	7.3	7.4	7.5	7.7	7.3
9/19/2010	7.6	7.8	7.8	7.3	7.3	7.0	7.7	7.0
9/20/2010	7.1	7.4	7.3	7.5	7.5	7.3	7.5	7.1
9/21/2010	7.6	7.8	7.4	7.3	6.9	6.9	7.8	6.9
9/22/2010	6.9	7.0	7.1	6.8	6.7	6.4	7.0	6.4
9/23/2010	6.6	6.7	6.8	7.0	6.6	6.4	6.5	6.4
9/24/2010	6.7	6.8	6.8	6.7	6.4	6.4	6.8	6.4
9/25/2010	6.5	6.6	6.5	6.9	7.0	6.9	6.4	6.4
9/26/2010	7.0	7.2	6.7	6.9	6.4	6.5	7.2	6.4
9/27/2010	7.3	7.2	7.3	7.2	6.9	6.9	7.1	6.9
9/28/2010	6.9	6.8	6.9	7.0	7.0	6.9	6.7	6.7
9/29/2010	7.1	7.1	7.0	7.5	7.6	7.5	7.1	7.0
9/30/2010	7.4	7.2	6.8	6.2	5.1	6.1	7.2	5.1
Min	6.50	6.60	6.42	6.07	5.10	6.10	6.4	Min 5.10
Max	7.70	7.80	7.93	7.91	7.84	7.63	7.8	Max 7.61
								Avg 6.81

September 2010
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Sep	0.11	0.04	0.02	0.07	0.02	0.04	0.05	
2-Sep	0.01	0.04	0.04	0.03	0.02	0.02	0.03	
3-Sep	0.01	0.04	0.03	0.02	0.02	0.03	0.03	
4-Sep	0.03	0.02	0.02	0.03	0.02	0.03	0.03	
5-Sep	0.02	0.03	0.03	0.02	0.01	0.03	0.02	
6-Sep	0.00	0.04	0.03	0.03	0.02	0.01	0.02	
7-Sep	0.00	0.04	0.05	0.05	0.06	0.02	0.04	
8-Sep	0.00	0.04	0.03	0.02	0.02	0.07	0.03	
9-Sep	0.00	0.03	0.02	0.02	0.01	0.06	0.02	
10-Sep	0.04	0.05	0.05	0.04	0.02	0.03	0.04	
11-Sep	0.04	0.04	0.14	0.05	0.02	0.05	0.06	
12-Sep	0.04	0.03	0.04	0.02	0.01	0.01	0.03	
13-Sep	0.03	0.05	0.06	0.02	0.02	0.01	0.03	
14-Sep	0.02	0.05	0.04	0.04	0.03	0.00	0.03	
15-Sep	0.00	0.07	0.20	0.04	0.05	0.01	0.06	
16-Sep	0.02	0.04	0.16	0.04	0.05	0.01	0.05	
17-Sep	0.00	0.04	0.04	0.03	0.02	0.04	0.03	
18-Sep	0.05	0.04	0.06	0.04	0.03	0.03	0.04	
19-Sep	0.04	0.09	0.05	0.04	0.06	0.01	0.05	
20-Sep	0.01	0.03	0.06	0.03	0.03	0.03	0.03	
21-Sep	0.03	0.06	0.05	0.04	0.02	0.02	0.04	
22-Sep	0.02	0.06	0.03	0.03	0.03	0.00	0.03	
23-Sep	0.03	0.06	0.03	0.05	0.03	0.01	0.04	
24-Sep	0.01	0.05	0.05	0.29	0.02	0.03	0.08	
25-Sep	0.01	0.05	0.07	0.06	0.04	0.02	0.04	
26-Sep	0.04	0.07	0.25	0.18	0.30	0.03	0.13	0.03
27-Sep	0.04	0.03	0.04	0.04	0.03	0.02	0.03	
28-Sep	0.04	0.03	0.03	0.02	0.01	0.03	0.03	
29-Sep	0.03	0.05	0.03	0.03	0.01	0.04	0.03	
30-Sep	0.02	0.04	0.02	0.00	0.01	0.02	0.02	
Average	0.02	0.05	0.06	0.05	0.03	0.03	0.04	
Minimum	0.00	0.02	0.02	0.00	0.01	0.00		
Maximum	0.11	0.09	0.25	0.29	0.30	0.07		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* September 2010

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 19.04	X 0.01	= 0.00
0.00	X 19.04	X 0.01	= 0.00
0.00	X 19.04	X 0.01	= 0.00
790.15	X 19.04	X 0.01	= 150.44
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 150.44

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	150.44
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Utilities Manager
Title

610-655-6258
Telephone

10/18/10
Date

City of Reading 3-C Watershed *for the Month* September 2010

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

RECEIVED
EPA REGION III
SEP 24 2010
WATER PROTECTION DIVISION
(3WP00)

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2010	TO	08/31/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	77	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	5.7	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	8.0		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1324	1581		******	11	13		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	57	******		******	0.5	******		0	Daily	COMP24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	14.55	16.67		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.03	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		09/21/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2010	TO	08/31/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.00862	******		******	<0.00007	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	35	******		0	Daily	GRAB
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	200 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1080	1336		******	9	11		0	Daily	COMP24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		09/21/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

	August 2010					City of Reading Wastewater Treatment Plant								
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Aug	23.5	16	12	11	0.4	16.67	6.2	7.8	0.67		160	85	0.29	66	81
2-Aug	23.0	18	11	8	1.1	16.44	6.2	7.5	0.55		39	85	0.01	61	81
3-Aug	23.0	16	9	13	1.3	15.90	5.9	7.6	0.77		10	85	0.00	66	85
4-Aug	23.8	19	15	12	2.5	14.37	5.7	7.4	0.97		3	100	0.00	73	92
5-Aug	25.8	16	10	10	1.1	14.87	5.7	7.4	0.83		16	85	0.00	71	89
6-Aug	24.8	16	7	10	0.9	14.20	5.9	7.5	0.73		7	85	0.00	63	87
7-Aug	22.4	20	10	8	0.7	13.39	6.2	7.3	0.69		17	85	0.00	57	88
8-Aug	23.6	18	11	12	0.7	14.29	6.3	7.5	0.67		28	85	0.00	62	88
9-Aug	23.4	18	9	16	0.4	14.82	6.5	7.4	0.53		44	85	0.00	66	91
10-Aug	22.8	16	8	11	0.5	14.49	6.1	7.3	0.61		20	75	0.00	71	95
11-Aug	24.6	16	12	9	0.2	14.30	6.3	7.5	0.33		82	75	0.00	70	96
12-Aug	24.4	21	14	8	0.3	15.63	6.5	7.7	0.4		504	85	0.25	67	77
13-Aug	23.3	18	10	11	0.6	13.72	6.5	7.7	0.40		453	75	0.00	64	77
14-Aug	23.0	18	8	7	0.1	13.95	6.7	7.8	0.45		29	75	0.00	63	81
15-Aug	23.6	16	8	6	0.2	16.13	6.5	7.8	0.71		14	75	0.32	68	72
16-Aug	23.8	13	8	9	0.2	15.50	6.9	7.6	0.67		18	75	0.13	69	89
17-Aug	23.4	16	12	41	0.2	14.70	6.3	7.5	0.61		46	65	0.00	66	89
18-Aug	23.8	13	7	8	0.2	14.06	6.7	7.5	0.46		75	75	0.00	64	80
19-Aug	23.8	11	5	12	0.2	14.19	6.9	7.5	0.54		29	75	0.00	65	91
20-Aug	24.5	8	6	8	0.3	13.69	6.7	7.4	0.49		32	65	0.00	63	89
21-Aug	23.5	10	6	7	0.3	13.65	6.8	8.0	0.47		19	65	0.00	59	85
22-Aug	23.4	10	7	11	0.4	15.61	6.6	7.8	0.55		119	75	0.84	66	83
23-Aug	22.9	8	6	10	0.6	14.87	6.3	7.6	0.65		53	75	0.04	62	83
24-Aug	23.6	10	9	10	0.2	14.70	6.6	7.4	0.79		16	75	0.03	61	73
25-Aug	22.6	10	5	9	0.1	13.68	7.0	7.5	0.62		24	75	0.00	63	77
26-Aug	22.2	11	7	8	0.2	14.04	7.1	7.5	0.56		31	65	0.00	58	82
27-Aug	22.5	15	8	12	0.2	13.30	7.1	7.8	0.51		74	65	0.00	52	82
28-Aug	22.8	10	8	11	0.1	13.28	7.2	7.5	0.58		38	75	0.00	52	90
29-Aug	22.8	13	7	12	0.1	12.97	7.1	7.4	0.52		52	75	0.00	55	94
30-Aug	22.9	11	11	8	0.1	15.29	6.8	7.7	0.77		13	75	0.00	60	96
31-Aug	24.0	13	8	10	0.2	14.42	6.4	7.6	0.41		72	65	0.00	62	99
				<	See DO profile										
TOTAL		444	274	338	14.5	451.1	###	234.4	18.47			2380	1.91		
Week 1	23.8	17	11	10	1.1	15.12	5.97	7.49	0.74		36	87	0.04	65	86
Week 2	23.6	18	10	11	0.4	14.46	6.39	7.56	0.48		166	79	0.04	66	86
Week 3	23.8	12	7	13	0.2	14.56	6.68	7.61	0.56		33	71	0.06	65	85
Week 4	22.9	11	7	10	0.3	14.21	6.84	7.58	0.61		51	72	0.13	59	81
Monthly	23.5	14	9	11	0.5	14.55	6.50	7.56	0.60		35.	77	0.06	63	86
No adjustment needed for weekly averages.															
Min =	22.2	8	5	6	0.1	12.97	5.7	7.3	0.33		3	65	0.00	52	72
Max =	25.8	21	15	41	2.5	16.67	7.2	8.0	0.97		504	100	0.84	73	99
Weekly averages: 8/1-7, 8/8-14, 8/15-21, 8/22-28. 8/29-8/31 included in September report.															
DISCHARGE LIMITATIONS															
Ave Monthly:			20	30	6		Min.	6.0			200	186			
Ave Weekly:			30	45			of	to							
Inst. Max:			40	60	12		5.0	9.0				465			

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EPA REGION III
SEP 24 2010
WATER PROTECTION DIVISION
(3WP00)

Print Date: 9/16/2010

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Aug	6,200	52,767	58,967	33,603	1,149	92,570	2,224	1,668	7,947	22,866	30,813	32,463	63,276	1,529	9,769	571	1,676	2246	2,042	4,189	4,289	58
2-Aug	4,709	44,669	49,378	-18,202		31,176	2,468	1,508	6,610	35,907	42,517	-30,262	12,255	1,097	8,486	514	1,529	2,043	2,139	3,996	4,182	145
3-Aug	10,008	78,062	88,070	-19,357		68,713	2,122	1,193	5,421	37,678	43,099	17,244	60,343	1,724	8,165	511	1,957	2,468	3,629	1,299	6,097	178
4-Aug	5,927	31,433	37,359	-5,126		32,233	2,277	1,798	6,557	26,132	32,689	-1,944	30,746	1,438	9,212	536	1,208	1,744	1,364	1,935	3,108	298
5-Aug	5,004	36,382	41,386	-2,154	755	39,232	1,984	1,240	4,295	25,911	30,206	5,190	35,397	1,240	12,221	502	1,642	2,144	2,480	4,378	4,625	136
6-Aug	4,822	41,200	46,022	936		46,958	1,895	829	4,606	26,203	30,809	14,822	45,630	1,184	11,484	510	1,656	2,166	1,785	4,195	3,951	110
7-Aug	4,764	36,906	41,670	364		42,034	2,233	1,117	4,645	34,018	38,663	3,371	42,034	893	5,237	351	1,556	1,908	474	2,425	2,382	73
8-Aug	4,715	39,899	44,614	6,226	1,738	50,840	2,145	1,311	5,616	34,347	39,963	6,766	46,729	1,430	7,781	712	1,735	2,446	1,318	1,530	3,764	82
9-Aug	5,122	38,281	43,402	-14,422		28,981	2,225	1,112	5,389	33,177	38,565	13,385	51,951	1,978	9,151	517	1,557	2,073	1,952	2,337	4,025	51
10-Aug	5,128	36,906	42,034	-4,820		37,215	1,934	967	5,332	23,909	29,240	13,406	42,646	1,329	9,007	486	1,613	2,099	1,482	1,813	3,581	55
11-Aug	4,964	45,712	50,676	938	1,473	51,614	1,908	1,431	5,005	23,025	28,030	29,061	57,091	1,073	10,596	496	1,676	2,172	1,209	1,968	3,381	26
12-Aug	5,565	48,339	53,904	1,780		55,685	2,737	1,825	5,399	18,127	23,526	16,738	40,264	1,043	10,553	498	1,761	2,259	1,714	1,577	3,973	38
13-Aug	4,464	34,933	39,396	1,708		41,105	2,060	1,144	4,910	8,778	13,688	18,330	32,018	1,259	6,155	471	1,854	2,325	1,548	877	3,872	67
14-Aug	4,200	32,696	36,896	2,405		39,301	2,094	931	3,622	10,701	14,322	20,113	34,436	814	5,567	518	1,553	2,071	1,194	952	3,266	17
15-Aug	5,900	40,819	46,719	5,258	1,383	51,977	2,152	1,076	6,337	29,993	36,330	11,223	47,553	807	5,367	553	1,695	2,248	1,346	88	3,594	33
16-Aug	5,940	42,828	48,768	284		49,052	1,681	1,034	5,530	23,948	29,478	35,052	64,530	1,163	2,042	572	1,687	2,259	1,698	110	3,957	20
17-Aug	5,786	54,181	59,966	4,543		64,509	1,962	1,471	5,129	26,025	31,154	15,643	46,796	5,027	8,927	523	1,776	2,300	1,921	2,025	4,220	23
18-Aug	6,120	39,573	45,694	-1,952	507	43,742	1,524	821	5,006	23,744	28,750	17,775	46,525	938	13,374	539	1,678	2,217	1,342	1,112	3,559	18
19-Aug	4,884	38,057	42,941	1,384		44,325	1,302	592	4,925	27,136	32,061	10,203	42,264	1,420	9,037	507	1,572	2,079	2,107	1,601	4,185	22
20-Aug	5,160	44,556	49,716	-1,385		48,331	913	685	5,517	32,618	38,135	10,196	48,331	913	3,686	467	1,614	2,081	819	585	2,900	30
21-Aug	4,927	34,577	39,505	11,399		50,904	1,138	683	4,889	22,551	27,440	28,461	55,900	797	4,934	481	1,571	2,052	747	830	2,800	33
22-Aug	6,215	38,997	45,212	-553	694	44,659	1,302	911	5,386	24,993	30,380	19,192	49,572	1,432	9,021	642	1,897	2,539	1,871	312	4,410	51
23-Aug	4,572	38,243	42,815	4,998		47,813	992	744	4,509	26,345	30,854	18,234	49,088	1,240	7,246	561	1,657	2,219	1,543		3,761	71
24-Aug	5,338	39,872	45,210	550		45,760	1,226	1,103	6,741	30,236	36,977	12,735	49,712	1,226	4,909	555	1,736	2,291	1,349		3,640	30
25-Aug	5,454	39,406	44,860	4,721		49,581	1,141	570	6,308	121,845	128,153	-77,779	50,375	1,027	7,443	529	1,505	2,034	802	1,397	2,836	16
26-Aug	6,105	38,492	44,597	392	157	44,989	1,288	820	5,128	59,295	64,423	-14,321	50,102	937	5,880	537	2,007	2,544	524	1,035	3,067	22
27-Aug	5,026	51,294	56,320	12,217		68,537	1,664	887	5,218	24,685	29,903	13,405	43,308	1,331	3,478	562	1,819	2,381	1,502	977	3,884	17
28-Aug	6,341	39,111	45,452	13,542		58,995	1,108	886	4,007	22,978	26,985	18,348	45,333	1,218	2,881	583	1,825	2,409	634	1,030	3,043	16
29-Aug	5,693	43,685	49,378	-89	447	49,289	1,406	757	5,198	30,579	35,778	-5,810	29,968	1,298	4,651	523	1,853	2,376	719	1,215	3,095	11
30-Aug	6,970	49,269	56,239	-13,727		42,512	1,403	1,403	6,627	37,445	44,072	-18,250	25,822	1,020	6,825	626	1,823	2,449	1,015	2,014	3,464	13
31-Aug	4,879	45,975	50,854	-9,192		41,662	1,563	962	4,254	58,783	63,037	-8,978	54,059	1,203	11,234	519	1,626	2,145	2,682	2,337	4,827	18
TOTAL	170,902	1,317,121	1,488,023	16,270	8,303	1,504,293	54,072	33,481	166,061	983,979	1,150,040	244,013	1,394,052	41,030	234,319	16,475	52,313	68,788	46,949	50,141	115,737	1,779
Week 1	5,919	45,917	51,836	-1,420	952	50,417	2,172	1,336	5,726	29,816	35,542	5,841	41,383	1,301	9,225	499	1,603	2,103	1,988	3,202	4,090	143
Week 2	4,880	39,538	44,418	-883	1,606	43,534	2,158	1,246	5,039	21,723	26,762	16,828	43,591	1,275	8,401	528	1,678	2,207	1,488	1,579	3,695	48
Week 3	5,531	42,084	47,616	2,790	945	50,406	1,525	909	5,333	26,574	31,907	18,365	50,271	1,581	6,767	520	1,656	2,177	1,426	908	3,602	26
Week 4	5,579	40,774	46,352	5,124	425	51,476	1,246	846	5,328	44,340	49,668	-1,455	48,213	1,202	5,837	567	1,778	2,345	1,175	950	3,520	32
Monthly	5,513	42,488	48,001	525	923	48,526	1,744	1,080	5,357	31,741	37,098	7,871	44,969	1,324	7,559	531	1,688	2,219	1,514	1,729	3,733	57
Min =	4200	31433	36896	-19357	157	28,981	913	570	3,622	8,778	13,688	-77,779	12,255	797	2,042	351	1,208	1,744	474	88	2,382	11
Max =	10008	78062	88070	33603	1738	92,570	2,737	1,825	7,947	121,845	128,153	35,052	64,530	5,027	13,374	712	2,007	2,544	3,629	4,378	6,097	298
								3,336						7,130								1,000
								5,004						10,696								

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	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Aug								
2-Aug								
3-Aug	< 0.00007	< 0.00146	0.00100	0.10408	0.00080	0.09995	< 0.00007	< 0.00928
4-Aug	0.00008	0.00168	0.00040	0.02465	0.00040	0.03306	< 0.00007	< 0.00839
5-Aug								
6-Aug								
7-Aug								
8-Aug								
9-Aug								
10-Aug	0.00010	0.00203	0.00030	0.02407	0.00040	0.04023	< 0.00007	< 0.00846
11-Aug								
12-Aug								
13-Aug								
14-Aug								
15-Aug								
16-Aug								
17-Aug	0.09800	2.01061	0.00010	0.00888	0.00030	0.03280	< 0.00007	< 0.00858
18-Aug								
19-Aug								
20-Aug								
21-Aug								
22-Aug								
23-Aug								
24-Aug	0.00040	0.00837	0.00010	0.00831	0.00020	0.02080	< 0.00007	< 0.00858
25-Aug								
26-Aug								
27-Aug								
28-Aug								
29-Aug								
30-Aug								
31-Aug	0.00020	0.00390	0.00100	0.08210	0.00040	0.04065	< 0.00007	< 0.00842
Total	0.09885	2.02806	0.00290	0.25209	0.00250	0.26749	0.00042	0.05171
Week 1	< 0.00008	< 0.00157	0.00070	0.06437	0.00060	0.06650	< 0.00007	< 0.00884
Week 2	0.00010	0.00203	0.00030	0.02407	0.00040	0.04023	< 0.00007	< 0.00846
Week 3	0.09800	2.01061	0.00010	0.00888	0.00030	0.03280	< 0.00007	< 0.00858
Week 4	0.00040	0.00837	0.00010	0.00831	0.00020	0.02080	< 0.00007	< 0.00858
Monthly	< 0.01648	< 0.33801	0.00048	0.04202	0.00042	0.04458	< 0.00007	< 0.00862
Min =	< 0.00007	< 0.00146	0.00010	0.00831	0.00020	0.02080	< 0.00007	< 0.00839
Max =	0.09800	2.01061	0.00100	0.10408	0.00080	0.09995	< 0.00007	< 0.00928
							0.00023	0.055
							0.00046	

August 2010	City of Reading Wastewater Treatment Plant																							Laboratory Process Control Data								
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent				Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
1-Aug	252	323	7.1	23.2	570	247	6.6	18.1	503	263	19.2	287	277	17.4	790	540	36.6	6.9	14.05	292	70	21.2	6.1	80	166	15.2		6.8	21	19	6.4	
2-Aug	218	306	7.2	23.8	520	418	6.8	17.8	459	395	19.0	-169	-281	19.9	290	114	38.9	6.5	12.89	ns	ns	ns	6.3	70	59	21.0	300	7.1	26	12	9.7	200
3-Aug	480	260	7.1	24.5	750	362	6.6	18.8	705	345	19.8	-155	138	29.0	550	483	48.8	6.7	14.98	348	59	29.8	6.4	60	69	21.2		7.1	23	13	10.6	
4-Aug	282	312	7.2	25.5	510	424	6.7	19.6	452	396	21.1	-62	-24	16.5	390	372	37.6	7.0	9.91	272	55	29.3	6.3	52	55	23.2	320	7.0	22	7	11.6	220
5-Aug	240	206	6.6	24.1	410	292	6.4	18.5	378	276	19.6	-20	47	22.6	358	323	42.2	7.0	13.14	275	58	29.2	6.4	45	68	22.3		6.9	40	31	10.6	
6-Aug	245	234	7.4	25.9	500	318	6.8	20.1	451	302	21.2	9	145	17.5	460	447	38.7	6.8	12.24	280	68	28.3	6.5	44	47	20.6	300	7.2	31	18	10.3	200
7-Aug	240	234	7.6	17.7	460	424	7.1	19.4	416	386	19.1	4	34	4.7	420	420	23.8	6.6	12.00	315	48	29.0	6.5	79	67	20.6		7.2	49	28	9.0	
8-Aug	220	262	7.3	33.2	460	396	6.9	20.0	412	369	22.6	58	63	12.2	470	432	34.8	6.5	12.97	262	63	24.1	6.4	46	47	18.3		6.9	26	20	9.3	
9-Aug	230	242	8.0	23.2	450	390	6.8	18.3	404	359	19.3	-134	125	18.2	270	484	37.5	6.8	12.87	270	73	26.1	6.3	45	74	20.0	180	6.8	26	19	9.6	180
10-Aug	252	262	7.3	23.9	460	298	6.7	20.1	418	291	20.9	-48	133	14.7	370	424	35.6	6.6	12.06	262	70	23.7	6.4	32	30	18.6		6.9	16	13	9.1	
11-Aug	240	242	7.3	24.0	540	272	6.6	19.8	481	266	20.6	9	276	11.5	490	542	32.1	6.9	12.63	242	46	24.6	6.3	84	72	19.0	200	6.9	28	13	8.6	200
12-Aug	268	260	7.4	24.0	560	210	6.6	20.4	503	220	21.1	17	156	16.0	520	376	37.1	6.7	12.84	320	59	25.6	6.5	38	30	16.4		7.4	27	14	7.0	
13-Aug	240	264	7.4	25.3	390	98	6.5	20.7	364	127	21.5	16	169	14.3	380	296	35.8	6.4	12.97	262	54	22.5	6.3	34	31	17.1	300	7.1	26	17	8.5	200
14-Aug	218	188	7.2	26.9	440	144	6.5	20.9	394	153	22.1	26	215	12.8	420	368	34.9	6.7	11.22	285	46	23.4	6.2	45	88	16.1		6.8	27	14	6.4	
15-Aug	270	290	7.0	25.3	460	338	8.0	19.1	422	329	20.3	48	101	12.2	470	430	32.5	6.6	13.26	258	75	22.3	6.3	48	131	15.9		7.0	46	15	7.2	
16-Aug	275	256	7.7	26.5	490	274	6.8	19.3	447	270	20.7	3	322	15.6	450	592	36.3	6.4	13.07	255	61	22.9	6.3	63	141	16.3	260	6.8	22	14	7.5	160
17-Aug	282	250	7.4	25.5	610	293	6.7	20.0	548	285	21.0	42	143	17.6	590	428	38.6	6.7	13.11	335	71	25.6	6.3	75	117	17.6		6.7	30	18	8.1	
18-Aug	302	247	7.3	26.6	500	300	6.7	21.2	460	289	22.3	-20	179	13.5	440	468	35.8	6.7	11.92	282	75	27.4	6.4	51	178	18.4	300	7.0	18	12	7.2	200
19-Aug	240	242	7.3	24.9	460	328	6.6	19.0	417	311	20.2	13	99	20.4	430	410	40.6	6.8	12.36	245	99	28.6	6.1	250	251	25.4		6.8	18	20	8.7	
20-Aug	275	294	7.3	24.9	530	388	6.6	19.2	483	371	20.2	-13	99	8.0	470	470	28.2	6.5	12.33	290	77	25.3	6.3	97	559	20.7	320	6.9	22	21	8.4	200
21-Aug	258	256	7.6	25.2	460	300	8.9	20.9	419	291	21.8	121	302	7.9	540	593	29.7	6.9	11.30	272	45	22.7	6.7	180	354	28.1		7.3	25	13	6.0	
22-Aug	270	234	7.5	27.9	440	282	7.1	21.4	405	272	22.7	-5	172	16.8	400	444	39.5	7.0	13.39	252	59	27.5	6.6	44	76	20.8		7.1	20	10	9.0	
23-Aug	215	212	7.4	26.4	450	310	6.7	19.5	403	290	20.9	47	172	14.5	450	462	35.4	6.8	12.74	262	126	26.7	6.5	207	338	28.3	680	6.7	30	25	9.3	200
24-Aug	255	322	7.5	26.5	480	364	6.7	20.9	435	356	22.0	5	122	13.0	440	478	35.0	6.7	12.47	252	61	25.4	6.4	140	211	27.8		7.1	26	19	7.2	
25-Aug	268	310	7.4	26.0	500	1546	6.8	19.1	452	1292	20.5	48	-784	8.1	500	508	28.6	6.6	11.89	260	65	22.3	6.4	47	27	19.4	300	7.0	22	19	6.7	200
26-Aug	300	252	7.4	26.4	470	724	6.8	24.5	436	630	24.9	4	-140	5.1	440	490	30.0	6.6	12.26	308	49	23.6	6.4	102	94	27.8		6.9	18	12	6.6	
27-Aug	262	272	7.3	29.3	640	308	6.7	22.7	567	301	24.0	123	135	15.1	690	436	39.1	6.6	11.91	342	97	27.3	6.3	227	181	26.9	280	7.0	28	12	6.3	200
28-Aug	288	182	7.3	26.5	480	282	6.8	22.4	439	261	23.3	131	177	6.1	570	438	29.4	7.0	12.41	372	432	27.0	6.5	253	123	37.5		6.9	26	15	6.5	
29-Aug	322	294	7.2	29.6	540	378	7.2	22.9	501	363	24.1	-1	-59	7.3	500	304	31.4	6.8	11.82	315	77	23.5	6.6	52	88	17.1		7.0	28	21	7.1	
30-Aug	305	290	7.4	27.4	600	456	6.9	22.2	536	420	23.3	-131	-174	9.7	405	246	33.0	6.7	12.59	278	53	24.5	6.3	30	16	15.8	280	7.0	24	8	6.7	200
31-Aug	250	218	7.4	26.6	560	716	6.8	19.8	500	620	21.1	-90	-88	26.4	410	532	47.5	6.9	12.18	280	50	28.9	6.5	33	27	19.6		7.0	28	19	8.8	
																								snails and worms in composite sample								
TOTAL	8262	8016	227.4	796.7	15690	11880	213	626.6	14214	11099	660.4	159	2251	444.6	14373	13350	1105.0	###	387.78	8543	2341	768.3	###	2653	3815	653.0	4020.0	216.0	819	511	253.8	2560
Week 1	280	268	7.2	23.5	531	355	7	18.9	481	338	19.8	-15	48	18.2	465	386	38.1	6.8	12.74	297	60	27.8	6.3	61	76	20.6	306.7	7.0	30	18	9.7	207
Week 2	238	246	7.4	25.8	471	258	7	20.0	425	255	21.2	-8	162	14.2	417	417	35.4	6.7	12.51	272	59	24.3	6.3	46	53	17.9	226.7	7.0	25	16	8.4	193
Week 3	272	262	7.4	25.6	501	317	7	19.8	457	307	20.9	28	178	13.6	484	484	34.5	6.7	12.48	277	72	25.0	6.3	109	247	20.3	293.3	6.9	26	16	7.6	187
Week 4	265	255	7.4	27.0	494	545	7	21.5	448	486	22.6	50	-21	11.2	499	465	33.9	6.8	12.44	293	127	25.7	6.4	146	150	26.9	420.0	6.9	24	16	7.4	200
Monthly	267	259	7.3	25.7	506	344	7	20.2	459	358	21.3	5	73	14.3	464	431	35.6	6.7	12.51	285	78	25.6	6.4	86	123	21.1	309.2	7.0	26	16	8.2	197
					removed from monthly avg																											
Min =	215	182	6.6	18	390	98	6	18	364	127	19.0	-169	-784	4.7	270	114	23.8	6.4	9.91	242	45	21.2	6.1	30	16	15.2	180.0	6.7	16	7	6.0	160
Max =	480	323	8.0	33	750	1546	9	25	705	1292	24.9	287	322	29.0	790	593	48.8	7.0	14.98	372	432	29.8	6.7	253	559	37.5	680.0	7.4	49	31	11.6	220
									%Removal						%Removal																	
									96.88	96.95	97.81				96.91	97.47	98.69															

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		Final Settling								Filtrate		
chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
145	6.8	22	17	15	0.3				6.9	200	1700	729
140	6.8	21	15	11	1.1	180			7.4		1100	518
160	6.9	26	15	15	1.7		4.2	0.365	7.2		1100	175
175	6.6	32	19	14	2.4	160			7.2		1400	294
175	6.8	26	20	14	1.1				7.0	105	1700	609
175	6.7	24	13	16	1.0	120			7.2		1700	621
165	6.9	30	14	11	0.6				7.1		1300	602
140	6.8	20	12	11	0.7				6.9	335	1500	295
140	6.4	20	9	15	0.5	160			7.2		1300	332
160	6.7	18	19	27	0.5		9.1	0.250	7.6		1500	302
170	6.7	24	17	14	0.2	220			7.2	292	2100	390
185	6.6	23	16	14	0.3				7.6		1900	284
170	6.9	21	11	9	0.6	140			7.3		1800	257
165	6.8	21	11	7	0.1				7.0		1500	257
145	6.8	21	13	14	0.2				6.9	335	1300	21
135	6.5	21	11	10	0.2	140			6.9		400	22
150	6.7	21	15	16	0.2		9.5	0.075	6.8		1600	363
170	6.8	34	14	19	0.2	160			7.3	72	1900	158
170	6.8	13	10	7	0.1				6.9		1400	248
160	6.6	18	11	18	0.2	140			7.0		1700	270
160	7.0	20	12	10	0.1				7.8		1700	286
125	7.1	19	10	10	0.4				7.1	100	1300	45
145	6.9	24	13	23	0.5	160	7.6	0.145	7.1		1200	mia
145	6.9	22	13	12	0.2				7.0		900	mia
155	7.0	18	10	8	0.1	160			7.3		1700	319
160	6.9	23	10	13	0.2				7.2	40	1500	264
155	7.0	24	14	11	0.1	160			7.2		1000	281
160	7.1	20	15	8	0.1				7.2		1100	394
140	7.1	22	12	9	0.1				7.6	125	1300	340
150	6.7	20	14	3	0.0	160	7.0	0.169	7.2		1200	354
150	6.8	17	14	9	0.2				7.5		1500	312
4840	210.8	685	419	393	14.6	2060	37.4	1.004	222.7	1604	44300	9340
162	6.8	26	16	14	1.2	153	4.2	0.365	7.1	153	1429	507
161	6.7	21	14	14	0.4	173	9.1	0.250	7.2	314	1657	302
156	6.7	21	12	13	0.2	147	9.5	0.075	7.1	204	1429	195
149	7.0	21	12	12	0.2	160	7.6	0.145	7.2	70	1243	261
156	6.8	22	14	13	0.5	158	7.5	0.201	7.2	178	1429	322
125	6.4	13	9	3	0.0	120	4.2	0.075	6.8	40	400	21
185	7.1	34	20	27	2.4	220	9.5	0.365	7.8	335	2100	729

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		August 2010																	
		Flow (MGD)											On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
1-Aug	11.100	2.011	0.652	2.950		14.050	16.670	4.690	4.900	0.689	33	35						
2-Aug	10.300	1.929	0.653	2.590		12.890	16.440	6.330	5.380	0.925	49	42						
3-Aug	12.480	1.758	0.618	2.500		14.980	15.900	4.780	5.430	0.890	32	36						
4-Aug	7.390	1.609	0.672	2.520		9.910	14.370	4.520	5.350	0.789	46	54						
5-Aug	10.640	1.952	0.730	2.500		13.140	14.870	4.590	5.410	0.862	35	41						
6-Aug	9.880	1.522	0.597	2.360		12.240	14.200	3.950	5.390	0.810	32	44						
7-Aug	9.620	1.862	0.520	2.380		12.000	13.390	2.110	5.190	0.483	18	43						
8-Aug	10.400	1.794	0.648	2.570		12.970	14.290	6.310	5.330	0.622	49	41						
9-Aug	10.200	1.731	0.638	2.670		12.870	14.820	7.550	5.310	0.844	59	41						
10-Aug	9.620	1.800	0.688	2.440		12.060	14.490	7.340	5.230	0.720	61	43						
11-Aug	10.150	1.813	0.672	2.480		12.630	14.300	8.770	5.200	0.605	69	41						
12-Aug	10.350	1.705	0.657	2.490		12.840	15.630	8.650	5.000	0.666	67	39						
13-Aug	10.740	1.588	0.620	2.230		12.970	13.720	8.340	4.060	0.410	64	31						
14-Aug	8.910	1.656	0.533	2.310		11.220	13.950	8.050	5.450	0.445	72	49						
15-Aug	10.640	1.866	0.645	2.620		13.260	16.130	8.410	5.750	0.495	63	43						
16-Aug	10.480	1.731	0.648	2.590		13.070	15.500	8.640	5.480	0.612	66	42						
17-Aug	10.650	1.828	0.677	2.460		13.110	14.700	8.560	6.090	0.669	65	46						
18-Aug	9.490	1.706	0.656	2.430		11.920	14.060	9.020	5.890	0.844	76	49						
19-Aug	9.920	1.689	0.661	2.440		12.360	14.190	8.250	5.610	0.774	67	45						
20-Aug	10.080	1.620	0.666	2.250		12.330	13.690	8.190	5.440	0.260	66	44						
21-Aug	9.013	1.567	0.564	2.290		11.303	13.650	8.430	5.270	0.348	75	47						
22-Aug	10.627	1.923	0.702	2.760		13.387	15.610	8.070	5.570	0.832	60	42						
23-Aug	10.190	1.695	0.687	2.550		12.740	14.870	6.920	5.960	0.724	54	47						
24-Aug	9.960	1.593	0.718	2.510		12.470	14.700	8.100	5.690	0.654	65	46						
25-Aug	9.450	1.683	0.737	2.440		11.890	13.680	8.470	5.580	0.525	71	47						
26-Aug	9.820	1.763	0.644	2.440		12.260	14.040	8.560	5.860	0.470	70	48						
27-Aug	9.610	1.612	0.655	2.300		11.910	13.300	8.120	5.400	0.417	68	45						
28-Aug	9.770	1.676	0.608	2.640		12.410	13.280	5.160	5.440	0.314	42	44						
29-Aug	9.700	1.826	0.652	2.120		11.820	12.970	5.700	5.350	0.429	48	45						
30-Aug	9.846	1.695	0.706	2.740		12.586	15.290	7.560	5.590	0.682	60	44						
31-Aug	9.844	1.718	0.730	2.340		12.184	14.420	7.830	5.490	0.898	64	45						
Total	310.870	53.921	20.254	76.910	0.000	387.780	451.120	219.970	168.090	19.707	1767	1351						
Week 1	10.201	1.806	0.635	2.543	#DIV/0!	12.744	15.120	4.424	5.293	0.778	35	42						
Week 2	10.053	1.727	0.637	2.456	#DIV/0!	12.509	14.457	7.859	5.083	0.616	63	41						
Week 3	10.039	1.715	0.645	2.440	#DIV/0!	12.479	14.560	8.500	5.647	0.572	68	45						
Week 4	9.918	1.706	0.679	2.520	#DIV/0!	12.438	14.211	7.629	5.643	0.562	61	45						
Monthly	10.028	1.739	0.653	2.481	#DIV/0!	12.509	14.552	7.096	5.422	0.636	57	44						
Min =	7.390	1.522	0.520	2.120	0.000	9.910	12.970	2.110	4.060	0.260	18	31						
Max =	12.480	2.011	0.737	2.950	0.000	14.980	16.670	9.020	6.090	0.925	76	54						

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	August 2010			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Aug															
2-Aug	7.1	29	4620	7.4	263	4600	7.2	589	4500	7.2	94	4600	7.1	206	4960
3-Aug															
4-Aug	7.1		4580	7.3		4440	7.1		4740	7.1		4800	7.2		4760
5-Aug															
6-Aug	7.2	86	4680	7.4	440	4380	7.3	180	4200	7.1	91	4680	7.2	403	4440
7-Aug															
8-Aug															
9-Aug	7.4	40	4500	7.7	394	4360	7.5	166	4840	7.1	203	4360	7.0	149	1020
10-Aug															
11-Aug	6.8		4800	6.8		4520	7.0		4750	7.2		4360	7.2		4040
12-Aug															
13-Aug	7.3	223	4460	7.3	357	4520	7.2	251	4980	7.0	326	1280	7.2	143	4620
14-Aug															
15-Aug															
16-Aug	6.8	80	4480	6.8	211	4540	6.8	751	4600	6.8	231	720	7.2	194	4740
17-Aug															
18-Aug	6.9	68	4820	6.9	543	4140	7.0	134	5060	7.3	228	4240	7.2	108	3920
19-Aug															
20-Aug	7.2		4820	7.2		4560	7.4		5160	7.2		4880	7.2		4140
21-Aug															
22-Aug															
23-Aug	7.1	37	4920	7.1	48	4400	7.3	368	5060	7.2	194	4760	7.0	34	2860
24-Aug															
25-Aug	7.1		4600	7.0		4900	7.2		5140	6.9		1100	7.1		5020
26-Aug															
27-Aug	7.0	46	4740	7.1	237	4880	7.2	146	5060	7.2	48	2200	7.1	166	4860
28-Aug															
29-Aug															
30-Aug	7.1	54	5020	7.0	243	4480	7.2	71	5140	7.2	654	5080	7.2	131	1400
31-Aug															
Total	92.1	663	61040	92.9	2736	58720	93.2	2656	63230	92.5	2069	47060	92.8	1534	50780
Week 1	7.1	58	4627	7.3	352	4473	7.2	385	4480	7.1	93	4693	7.2	305	4720
Week 2	7.2	132	4587	7.3	376	4467	7.2	209	4857	7.1	265	3333	7.1	146	3227
Week 3	7.0	74	4707	7.0	377	4413	7.0	443	4940	7.1	230	3280	7.2	151	4267
Week 4	7.1	42	4753	7.1	143	4727	7.2	257	5087	7.1	121	2687	7.1	100	4247
Monthly	7.1	74	4695	7.1	304	4517	7.2	295	4864	7.1	230	3620	7.1	170	3906
Min =	6.8	29	4460	6.8	48	4140	6.8	71	4200	6.8	48	720	7.0	34	1020
Max =	7.4	223	5020	7.7	543	4900	7.5	751	5160	7.3	654	5080	7.2	403	5020

Print Date: 9/16/2010

Dissolved Oxygen -August 2010

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
8/1/2010	6.7	6.7	6.7	6.9	6.6	6.2	6.9	6.2	
8/2/2010	6.3	6.8	6.8	6.7	6.5	6.2	6.6	6.2	
8/3/2010	6.4	6.6	6.7	6.5	6.3	5.9	6.6	5.9	
8/4/2010	6.0	6.1	6.4	6.4	6.0	5.7	6.2	5.7	
8/5/2010	5.7	6.1	5.9	6.1	6.3	6.1	6.0	5.7	
8/6/2010	6.1	6.3	5.9	5.9	6.2	6.2	6.3	5.9	
8/7/2010	6.3	6.6	6.5	6.3	6.2	6.5	6.8	6.2	
8/8/2010	6.4	6.6	6.6	6.7	6.4	6.3	6.7	6.3	
8/9/2010	6.5	6.7	6.6	6.9	6.8	6.5	7.8	6.5	
8/10/2010	6.5	6.6	6.5	6.8	6.4	6.1	6.4	6.1	
8/11/2010	6.3	6.6	6.5	6.7	6.9	6.6	6.4	6.3	
8/12/2010	6.7	6.8	6.5	6.5	6.7	6.9	6.6	6.5	
8/13/2010	7.1	7.1	6.8	6.7	6.5	6.5	7.0	6.5	
8/14/2010	6.7	6.8	6.7	7.1	6.9	6.8	6.9	6.7	
8/15/2010	6.7	6.8	6.7	6.5	6.7	6.7	6.8	6.5	
8/16/2010	6.9	7.0	7.0	7.0	6.9	6.9	7.0	6.9	
8/17/2010	7.0	7.1	6.7	7.2	6.9	6.7	6.3	6.3	
8/18/2010	6.9	6.9	6.8	6.7	7.0	6.8	6.8	6.7	
8/19/2010	7.0	7.1	6.9	7.3	7.3	6.9	6.9	6.9	
8/20/2010	6.9	7.1	6.9	7.1	6.8	6.7	6.7	6.7	
8/21/2010	6.8	6.9	6.8	7.0	7.2	7.2	6.8	6.8	
8/22/2010	7.1	7.1	6.9	7.0	7.0	6.6	8.0	6.6	
8/23/2010	6.8	7.1	6.8	6.9	6.9	6.3	6.8	6.3	
8/24/2010	6.7	7.0	6.6	6.7	7.2	7.4	6.9	6.6	
8/25/2010	7.4	7.4	7.5	7.3	7.4	7.0	7.1	7.0	
8/26/2010	7.2	7.3	7.2	7.4	7.3	7.1	7.2	7.1	
8/27/2010	7.2	7.5	7.1	7.3	7.6	7.4	7.3	7.1	
8/28/2010	7.4	7.5	7.3	7.5	7.5	7.2	7.2	7.2	
8/29/2010	7.3	7.3	7.1	7.3	7.3	7.1	7.1	7.1	
8/30/2010	7.2	7.3	6.9	7.1	7.0	6.8	6.9	6.8	
8/31/2010	7.0	7.1	6.8	7.2	7.1	6.7	6.4	6.4	
Min	5.74	6.05	5.91	5.89	5.97	5.65	6.0	Min	5.65
Max	7.40	7.50	7.49	7.46	7.62	7.43	8.0	Max	7.22
								Avg	6.50

August 2010
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Aug	0.02	0.06	0.02	0.03	0.03	0.02	0.03	
2-Aug	0.00	0.02	0.04	0.03	0.03	0.03	0.03	
3-Aug	0.02	0.05	0.02	0.03	0.02	0.01	0.03	
4-Aug	0.01	0.03	0.03	0.02	0.01	0.00	0.02	
5-Aug	0.00	0.05	0.01	0.03	0.03	0.01	0.02	
6-Aug	0.00	0.05	0.03	0.02	0.02	0.03	0.03	
7-Aug	0.02	0.05	0.03	0.01	0.02	0.00	0.02	
8-Aug	0.02	0.05	0.03	0.03	0.03	0.02	0.03	
9-Aug	0.02	0.06	0.04	0.31	0.03	0.00	0.08	
10-Aug	0.02	0.04	0.04	0.03	0.02	0.02	0.03	
11-Aug	0.02	0.06	0.04	0.02	0.03	0.04	0.04	
12-Aug	0.03	0.06	0.02	0.04	0.03	0.04	0.04	
13-Aug	0.03	0.05	0.04	0.01	0.00	0.03	0.03	
14-Aug	0.03	0.05	0.05	0.03	0.03	0.02	0.04	
15-Aug	0.08	0.19	0.02	0.04	0.03	0.06	0.07	
16-Aug	0.05	0.06	0.08	0.03	0.02	0.03	0.05	
17-Aug	0.03	0.05	0.03	0.05	0.02	0.03	0.04	
18-Aug	0.03	0.05	0.04	0.02	0.01	0.04	0.03	
19-Aug	0.05	0.04	0.03	0.02	0.02	0.03	0.03	
20-Aug	0.00	0.04	0.04	0.04	0.03	0.03	0.03	
21-Aug	0.04	0.07	0.04	0.03	0.03	0.03	0.04	
22-Aug	0.04	0.17	0.06	0.03	0.04	0.01	0.06	
23-Aug	0.03	0.07	0.03	0.05	0.01	0.05	0.04	
24-Aug	0.05	0.04	0.03	0.00	0.00	0.00	0.02	
25-Aug	0.03	0.05	0.03	0.03	0.02	0.03	0.03	
26-Aug	0.04	0.04	0.02	0.02	0.01	0.03	0.03	
27-Aug	0.02	0.04	0.04	0.04	0.05	0.03	0.04	
28-Aug	0.02	0.05	0.03	0.05	0.04	0.00	0.03	
29-Aug	0.02	0.10	0.05	0.04	0.01	0.02	0.04	
30-Aug	0.04	0.03	0.04	0.03	0.04	0.02	0.03	
31-Aug	0.00	0.03	0.04	0.04	0.04	0.03	0.03	
Average	0.03	0.06	0.04	0.04	0.02	0.02	0.03	
Minimum	0.00	0.02	0.01	0.00	0.00	0.00		
Maximum	0.08	0.19	0.08	0.31	0.05	0.06		

Discharge Monitoring Report Supplemental Bio-Solids Report ***for the Month*** August 2010

NPDES permit PAL026549

RECEIVED
EPA REGION III
SEP 24 2010
WATER PROTECTION DIVISION
(3WP00)

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to Incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	**=** 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 20.63	X 0.01	= 0.00
0.00	X 20.63	X 0.01	= 0.00
0.00	X 20.63	X 0.01	= 0.00
884.21	X 20.63	X 0.01	= 182.41
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	**=** 182.41

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	182.41
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Utilities Manager
Title

610-655-6258
Telephone

09/21/10
Date

City of Reading 3-C Watershed *for the Month* August 2010

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	07/01/2010	TO	07/31/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	72	******		0	Daily	COMP24
00080 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	5.6	******	******		0	7/Daily	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	8.1		0	Daily	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1302	1501		******	10	11		0	Daily	COMP24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	106	******		******	0.7	******		0	Daily	COMP24
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	15.32	19.77		******	******	******	******	0	Continuous	MEASRD
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.03	******		0	2/Shift	GRAB
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE
Ralph E. Johnson Superintendent	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	610-655-6258		08/19/2010
TYPED OR PRINTED		AREA Code	NUMBER	MM/DD/YYYY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

None

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	07/01/2010	TO	07/31/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.00875	******		******	<0.00007	******		0	Weekly	COMP24
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	22	******		0	Daily	GRAB
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	200 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1105	1205		******	9	9		0	Daily	COMP24
80082 1 0 Effluent Gross	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Ralph E. Johnson Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258	08/19/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code / NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

None

July 2010 — City of Reading Wastewater Treatment Plant

	Final Effluent								preSO2	Extra fecal	COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Jul	21.7	14	9	8	1.0	14.06	6.5	7.3	0.87		7	60	0.00	50	78
2-Jul	21.5	15	8	10	0.7	13.19	6.6	7.6	0.82		8	75	0.00	49	85
3-Jul	21.9	15	8	10	0.3	12.99	6.7	7.3	0.71		6	65	0.00	52	89
4-Jul	21.9	17	12	7	0.1	12.75	6.9	7.3	0.89		7	65	0.00	57	95
5-Jul	22.8	16	10	11	0.1	13.73	6.7	7.8	0.49		53	65	0.00	62	98
6-Jul	23.2	17	9	10	0.7	13.97	5.8	7.6	0.39		84	75	0.00	67	102
7-Jul	23.3	14	8	6	0.3	13.69	6.2	7.4	0.69		10	75	0.00	71	100
8-Jul	24.3	15	7	10	1.0	14.54	6.2	7.5	0.55		24	75	0.38	70	93
9-Jul	24.1	13	8	13	0.6	16.65	6.2	7.4	0.62		7	85	0.00	70	90
10-Jul	23.0	17	10	9	3.0	19.27	5.8	7.4	[illegible]		2	75	2.38	69	77
11-Jul	20.5	13	8	9	0.4	14.51	6.8	7.7	0.75		14	75	0.00	62	93
12-Jul	22.9	15	10	7	0.9	18.76	6.7	7.6	0.4		196	75	0.81	60	88
13-Jul	22.4	20	10	13	0.8	17.18	6.3	7.4	0.82		11	85	0.21	68	89
14-Jul	22.4	16	9	17	6.0	19.77	5.6	7.6	0.70		1	60	2.27	69	84
15-Jul	22.4	12	7	9	0.3	16.68	6.6	7.7	0.92		4	60	0.00	67	92
16-Jul	24.1	14	6	9	0.3	15.61	6.8	7.7	0.54	9	62	70	0.00	69	93
17-Jul	23.6	16	10	10	0.3	14.79	6.8	7.8	0.40		152	65	0.00	68	91
18-Jul	22.6	19	9	13	0.2	15.14	6.8	7.7	0.31		180	75	0.00	70	91
19-Jul	24.3	16	9	14	0.2	15.87	6.6	7.6	0.38		269	75	0.02	70	92
20-Jul	24.7	17	12	7	0.3	15.31	6.5	7.6	0.27		2,100	75	0.00	68	87
21-Jul	23.8	14	7	9	1.3	17.09	6.1	8.0	0.36		85	85	0.69	69	91
22-Jul	24.8	20	6	14	0.5	15.22	6.2	7.5	0.98		4	65	0.01	65	89
23-Jul	23.3	14	8	13	0.3	15.46	6.8	7.8	0.62		37	85	0.03	68	95
24-Jul	23.7	12	8	6	0.2	14.82	6.6	8.1	0.47		23	65	0.00	74	97
25-Jul	24.4	14	9	15	0.2	15.22	6.5	7.9	0.48		38	60	0.17	67	91
26-Jul	23.8	14	7	8	0.1	15.27	6.6	7.6	0.52		42	60	0.00	60	86
27-Jul	23.1	15	8	9	0.2	14.79	6.8	7.7	0.53		299	75	0.00	60	89
28-Jul	23.4	16	10	7	1.1	15.10	6.1	7.6	0.61		23	75	0.00	65	90
29-Jul	24.8	13	9	11	1.5	15.03	5.9	7.3	[illegible]		1	75	0.10	71	91
30-Jul	23.8	14	9	8	0.3	14.77	6.1	7.4	0.94		2	85	0.00	58	86
31-Jul	24.1	12	8	11	0.1	13.83	6.7	7.6	0.74		78	85	0.00	57	88
						See DO profile					<				
TOTAL		469	268	313	23.2	475.1	####	235.1	20.67			2245	7.07		
Week 1	22.3	16	9	9	0.5	13.48	6.49	7.45	0.69		25	69		58	92
Week 2	22.8	15	9	11	1.8	17.24	6.23	7.52	0.77		36	76	0.86	67	88
Week 3	23.6	16	8	11	0.4	15.78	6.60	7.70	0.45		407	72	0.10	69	91
Week 4	23.8	14	9	10	0.4	15.13	6.51	7.72	0.60		67	69	0.03	66	91
Monthly	23.2	15	9	10	0.7	15.32	6.44	7.58	[illegible]		22	72	0.23	65	90
Only highlighted weekly averages have been adjusted as stated below.															
Min =	20.5	12	6	6	0.1	12.75	5.6	7.3	0.27		1	60	0.00	49	77
Max =	24.8	20	12	17	6.0	19.77	6.9	8.1	1.60		2,100	85	2.38	74	102
Weekly averages: 7/4-10, 7/11-17, 7/18-24, 7/25-31.															
DISCHARGE LIMITATIONS															
Ave Monthly:			20	30	6		Min	6.0			200	186			
Ave Weekly:			30	45			of	to							
Inst. Max:			40	60	12		5.0	9.0				465			

Print Date: 8/13/2010

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Jul	5,004	38,806	43,810	-1,409		42,401	1,642	1,055	6,005	69,686	75,691	-28,946	46,744	938	8,457	530	1,668	2197	2,187	10,619	4,385	120
2-Jul	5,573	41,158	46,731	-3,597		43,134	1,650	880	6,424	24,520	30,944	7,877	38,821	1,100	2,734	430	1,454	1,883	1,341	10,056	3,224	79
3-Jul	4,964	48,839	53,803	-3,763		50,040	1,625	867	4,744	43,875	48,619	1,421	50,040	1,083	3,115	492	1,585	2,078	1,665	1,186	3,743	27
4-Jul	5,074	36,062	41,136	-4,151		36,985	1,808	1,276	4,127	19,756	23,883	4,147	28,030	744	490	466	1,521	1,987	-98	436	1,888	13
5-Jul	5,638	47,158	52,795	12,882		65,678	1,832	1,145	5,014	71,398	76,412	-19,700	56,712	1,260	0	531	1,622	2,153	1,475		3,628	17
6-Jul	4,757	35,790	40,547	-1,059		39,488	1,981	1,049	5,791	39,785	45,577	-8,998	36,579	1,165	3,328	616	2,039	2,656	1,054	5,058	3,710	84
7-Jul	4,779	31,525	36,304	-11,433		24,872	1,598	913	6,716	35,578	42,294	-29,476	12,818	685	7,383	595	1,914	2,509	1,728	13,724	4,238	36
8-Jul	5,317	42,491	47,808	-17,688	622	30,120	1,819	849	5,657	34,993	40,650	-28,309	12,341	1,213	8,332	638	2,241	2,879	2,779	21,232	5,658	125
9-Jul	9,215	36,930	46,145	36,536		82,681	1,805	1,111	10,532	32,170	42,701	72,628	115,330	1,805	6,155	562	1,551	2,114	1,491	12,931	3,604	79
10-Jul	6,363	32,757	39,120	29,045		68,164	2,732	1,607	6,130	87,058	93,187	-57,297	35,891	1,446	4,991	552	1,979	2,530	1,963	10,605	4,493	476
11-Jul	6,491	46,532	53,023	-13,033	305	39,990	1,573	968	5,524	55,656	61,181	-28,960	32,221	1,089	4,977	527	1,852	2,379	32	12,660	2,411	44
12-Jul	5,909	40,699	46,608	-1,767		44,841	2,347	1,565	5,692	33,373	39,065	-2,471	36,594	1,095	3,298	572	1,903	2,475	3,131	856	5,605	133
13-Jul	13,010	48,372	61,382	-31,305		30,077	2,866	1,433	6,922	161,369	168,291	-112,310	55,981	1,863	10,648	487	1,664	2,151	3,018	17,195	5,168	115
14-Jul	5,156	31,863	37,019	12,116		49,135	2,638	1,484	10,405	59,478	69,883	-4,590	65,293	2,803	8,267	652	1,676	2,327	2,916	5,810	5,243	993
15-Jul	7,926	34,559	42,485	839	730	43,324	1,669	974	4,899	21,196	26,095	7,774	33,869	1,252	8,036	388	1,207	1,595	1,552	21,766	3,148	47
16-Jul	6,295	42,784	49,079	-20,935		28,144	1,823	781	4,444	46,207	50,650	-37,477	13,174	1,172	4,077	536	1,873	2,409	1,484	18,768	3,892	38
17-Jul	5,110	39,590	44,700	30,902		75,602	1,974	1,233	7,796	23,080	30,876	49,910	80,786	1,233	6,455	568	1,752	2,320	1,428	3,610	3,748	33
18-Jul	6,223	35,265	41,488	-2,977	852	38,511	2,399	1,136	5,697	58,508	64,204	-29,441	34,764	1,641	8,262	551	1,635	2,186	1,156	7,527	3,341	19
19-Jul	7,014	41,942	48,955	12,384		61,339	2,118	1,191	6,575	192,129	198,705	-142,364	56,341	1,853	4,796	602	1,785	2,386	2,294	17,863	4,680	21
20-Jul	5,256	51,374	56,630	-12,452		44,179	2,171	1,532	3,930	68,375	72,305	-32,777	39,528	894	11,059	361	1,270	1,631	1,694	36,105	3,325	43
21-Jul	6,512	37,081	43,593	843		44,436	1,995	998	5,965	145,566	151,530	-78,212	73,319	1,283	5,091	587	1,673	2,260	2,351	23,763	4,610	181
22-Jul	5,885	38,946	44,831	3,017	513	47,848	2,539	762	6,165	22,462	28,627	19,221	47,848	1,777	8,544	474	1,612	2,086	2,972	22,539	5,058	60
23-Jul	5,877	69,548	75,425	-7,848		67,577	1,805	1,031	3,613	23,671	27,284	16,425	43,710	1,676	9,563	538	2,538	3,076	2,230	13,027	5,306	38
24-Jul	4,597	33,715	38,312	-5,447	54	32,865	1,483	989	5,348	20,394	25,742	5,558	31,300	742	130	524	1,669	2,193	-419	9,591	1,774	22
25-Jul	6,374	49,677	56,052	1,965		58,016	1,777	1,142	6,703	26,735	33,438	11,155	44,593	1,904	0	415	2,059	2,474	654		3,128	26
26-Jul	5,546	48,399	53,945	-15,909		38,035	1,783	891	5,014	29,039	34,053	-17,456	16,597	1,019	6,899	586	1,908	2,494	1,241	36,963	3,734	18
27-Jul	5,017	29,218	34,235	-585		33,650	1,850	987	5,423	19,295	24,718	14,133	38,851	1,110	14,517	493	987	1,480	1,962	32,875	3,442	26
28-Jul	6,462	49,973	56,435	-8,739		47,696	2,015	1,259	5,248	27,128	32,376	6,669	39,045	882	11,384	529	1,713	2,242	2,849	8,075	5,091	137
29-Jul	5,638	46,149	51,787	-188	448	51,600	1,630	1,128	6,375	29,499	35,875	6,078	41,953	1,379	9,513	551	1,701	2,252	1,955	9,180	4,206	188
30-Jul	5,994	48,489	54,483	5,320		59,803	1,725	1,109	5,359	20,076	25,435	20,309	45,744	985	4,896	472	1,625	2,097	736	25,492	2,833	32
31-Jul	5,282	41,700	46,982	-5,649		41,333	1,384	923	4,425	29,524	33,949	-882	33,066	1,269	2,797	482	1,593	2,075	343	942	2,418	16
TOTAL	188,259	1,297,392	1,485,651	-24,087	3,523	1,461,564	60,055	34,269	182,661	1,571,578	1,754,240	-416,358	1,337,882	40,360	188,194	16,305	53,269	69,574	51,158	410,456	120,733	3,285
Week 1	5,113	39,905	45,018	-1,790	#DIV/0!	43,228	1,939	1,136	5,546	43,514	49,060	-10,525	38,535	1,188	4,383	523	1,686	2,209	1,336	6,847	3,545	54
Week 2	7,352	39,949	47,301	1,986	463	49,287	2,127	1,205	7,266	66,299	73,565	-23,044	50,521	1,501	6,537	570	1,838	2,408	2,190	11,613	4,598	281
Week 3	6,334	40,371	46,705	1,229	791	47,933	2,073	1,091	5,615	79,294	84,909	-37,512	47,397	1,409	6,778	513	1,599	2,112	1,708	18,486	3,821	55
Week 4	5,680	45,639	51,319	-4,792	283	46,527	1,738	1,063	5,359	24,103	29,462	7,958	37,420	1,221	7,144	508	1,784	2,292	1,641	20,512	3,933	47
Monthly	6,073	41,851	47,924	-777	503	47,147	1,937	1,105	5,892	50,696	56,588	-13,431	43,157	1,302	6,071	526	1,718	2,244	1,650	14,154	3,895	106
Min =	4597	29218	34235	-31305	54	24,872	1,384	762	3,613	19,295	23,883	-142,364	12,341	685	0	361	987	1,480	-419	436	1,774	13
Max =	13010	69548	75425	36536	852	82,681	2,866	1,607	10,532	192,129	198,705	72,628	115,330	2,803	14,517	652	2,538	3,076	3,131	36,963	5,658	993
								3,336						7,130								1,000
								5,004						10,696								

Print Date: 8/13/2010

	GC Mercury (Hg)			6th St Mercury (Hg)			Inf. Mercury (Hg)			Eff. Mercury (Hg)		
DATE	mg/L		lbs/day	mg/L		lbs/day	mg/L		lbs/day	mg/L		lbs/day
1-Jul												
2-Jul												
3-Jul												
4-Jul												
5-Jul												
6-Jul							0.00010		0.01039	< 0.00007	<	0.00816
7-Jul	0.00009		0.00185	< 0.00007	<	0.00525	0.00090		0.08609	< 0.00007	<	0.00799
8-Jul												
9-Jul												
10-Jul												
11-Jul												
12-Jul												
13-Jul	0.00020		0.00520	0.00020		0.01935	0.00040		0.04911	< 0.00007	<	0.01003
14-Jul												
15-Jul												
16-Jul												
17-Jul												
18-Jul												
19-Jul												
20-Jul	0.00010		0.00229	0.00020		0.01868	0.00020		0.02325	< 0.00007	<	0.00894
21-Jul												
22-Jul												
23-Jul												
24-Jul												
25-Jul												
26-Jul												
27-Jul	0.00008		0.00171	0.00010		0.00551	0.00040		0.03059	< 0.00007	<	0.00863
28-Jul												
29-Jul												
30-Jul												
31-Jul												
Total	0.00047		0.01105	0.00057		0.04880	0.00200		0.19943	0.00035		0.04375
Week 1	0.00009		0.00185	< 0.00007	<	0.00525	0.00050		0.04824	< 0.00007	<	0.00807
Week 2	0.00020		0.00520	0.00020		0.01935	0.00040		0.04911	< 0.00007	<	0.01003
Week 3	0.00010		0.00229	0.00020		0.01868	0.00020		0.02325	< 0.00007	<	0.00894
Week 4	0.00008		0.00171	0.00010		0.00551	0.00040		0.03059	< 0.00007	<	0.00863
Monthly	0.00012		0.00276	< 0.00014	<	0.01220	0.00040		0.03989	< 0.00007	<	0.00875
Min =	< 0.00008	<	0.00171	0.00007		0.00525	0.00010		0.01039	< 0.00007	<	0.00799
Max =	0.00020		0.00520	0.00020		0.01935	0.00090		0.08609	< 0.00007	<	0.01003
										0.00023		0.055
										0.00046		

Print Date: 8/13/2010

	July 2010				City of Reading Wastewater Treatment Plant															Laboratory Process Control Data											
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent				Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
1-Jul	240	288	7.4	25.4	470	844	6.9	20.2	424	732	21.2	-14	-280	21.2	410	452	42.4	6.6	12.40	278	74	23.2	6.3	32	27	18.4		7.2	22	13	9.2	
2-Jul	275	317	7.3	21.2	470	280	6.7	16.6	433	287	17.5	-33	73	12.4	400	360	29.9	6.9	12.93	245	78	22.4	6.5	34	33	17.8	300	7.2	36	25	8.6	220
3-Jul	248	237	7.4	24.6	610	548	6.9	19.8	538	486	20.8	-38	14	16.6	500	500	37.4	6.9	12.00	300	53	21.3	6.4	37	29	15.0		7.0	28	15	6.4	
4-Jul	268	218	7.6	24.6	460	252	7.0	19.4	423	245	20.4	-43	43	-1.0	380	288	19.4	6.7	11.67	253	59	21.7	6.3	30	14	15.4		7.0	20	3	6.4	
5-Jul	262	233	7.2	24.7	570	863	6.8	19.6	506	733	20.7	124	-189	14.1	630	544	34.8	6.4	12.50	295	93	24.0	6.3	26	30	16.2		6.9	32	28	6.6	
6-Jul	230	280	7.3	29.8	430	478	6.7	24.5	390	439	25.6	-10	-87	10.1	380	352	35.7	6.7	12.46	260	69	34.2	6.4	28	21	22.9		7.1	26	13	12.6	
7-Jul	232	326	7.3	28.9	420	474	6.9	25.5	380	442	26.2	-120	-308	18.1	260	134	44.3	6.6	11.47	242	66	28.9	6.2	26	17	21.9	280	7.1	20	11	10.1	220
8-Jul	250	266	7.3	30.0	510	420	7.0	26.9	457	389	27.5	-169	-271	26.6	288	118	54.1	7.1	12.54	250	49	32.2	6.5	22	35	30.3		6.8	21	9	17.2	
9-Jul	385	440	7.3	23.5	450	392	6.9	18.9	435	403	19.9	345	685	14.1	780	1088	34.0	6.7	12.71	235	56	25.5	6.5	46	49	17.9	300	6.8	36	31	8.9	200
10-Jul	218	210	6.9	18.9	298	792	6.7	18.0	281	670	18.2	209	-412	14.1	490	258	32.3	6.9	16.68	202	37	18.3	6.4	22	15	13.6		7.0	21	8	8.1	
11-Jul	282	240	7.3	22.9	510	610	7.1	20.3	464	535	20.8	-114	-253	0.3	350	282	21.1	6.5	13.70	275	52	19.9	6.5	ns	ns	ns		6.8	32	15	7.0	
12-Jul	218	210	7.4	21.1	400	328	6.8	18.7	362	303	19.2	-14	-19	24.3	348	284	43.5	7.1	15.45	245	49	25.0	6.4	32	20	17.7	280	6.7	20	5	7.9	160
13-Jul	500	266	7.4	18.7	500	1668	7.0	17.2	500	1371	17.5	-255	-915	24.6	245	456	42.1	7.1	14.72	272	61	24.7	6.4	37	19	17.4		6.9	34	25	8.9	
14-Jul	110	222	7.6	13.9	270	504	7.0	14.2	225	424	14.1	73	-28	17.7	298	396	31.8	6.8	19.77	160	80	19.0	6.8	23	28	14.7	300	7.2	34	34	10.1	180
15-Jul	288	178	6.7	14.1	375	230	6.6	13.1	355	218	13.3	7	65	13.0	362	283	26.3	6.3	14.35	228	50	18.2	6.1	26	26	13.8		6.5	26	9	7.0	
16-Jul	255	180	7.3	21.7	450	486	7.0	19.7	410	423	20.1	-175	-313	12.4	235	110	32.5	6.4	14.36	235	58	22.2	6.3	23	15	17.5	280	6.6	15	6	9.2	220
17-Jul	215	328	7.2	23.9	470	274	6.9	20.8	414	286	21.5	286	462	13.2	700	748	34.7	6.7	12.95	272	74	23.7	6.3	38	42	19.8		6.8	20	7	9.0	
18-Jul	260	238	7.0	23.0	440	730	6.8	20.4	399	617	21.0	-29	-283	11.1	370	334	32.1	6.8	12.48	245	69	23.4	6.3	35	31	18.0		7.0	26	17	6.8	
19-Jul	288	270	7.2	24.7	470	2153	6.6	20.0	431	1749	21.0	109	-1253	20.2	540	496	41.2	6.7	13.62	235	65	28.2	6.8	41	43	21.8	280	7.3	17	5	8.9	200
20-Jul	230	172	7.4	15.8	550	732	6.8	13.6	487	622	14.0	-107	-282	14.6	380	340	28.6	7.0	13.94	255	54	19.4	6.3	30	17	15.7		7.3	32	12	8.3	
21-Jul	262	240	7.3	23.6	430	1688	7.0	19.4	392	1364	20.3	8	-704	21.2	400	660	41.5	7.0	13.32	242	64	28.2	6.4	56	93	32.2	320	6.8	28	17	12.7	200
22-Jul	252	264	7.5	20.3	430	248	6.8	17.8	394	251	18.3	26	169	26.1	420	420	44.4	6.9	13.66	235	75	23.2	6.3	158	640	38.4		6.7	18	19	7.6	
23-Jul	270	166	7.3	24.7	570	194	6.7	20.8	525	190	21.4	-55	114	15.5	470	304	36.9	6.9	17.24	292	64	23.7	6.4	ns	ns	ns	380	7.0	31	15	8.2	140
24-Jul	208	242	7.5	23.7	410	248	7.1	20.3	367	247	21.0	-52	53	-4.0	315	300	17.0	6.8	12.51	220	61	18.7	6.8	33	22	16.2		6.8	22	18	6.8	
25-Jul	272	286	7.5	17.7	550	296	7.0	22.8	493	294	21.7	17	98	5.8	510	392	27.5	6.6	13.64	245	86	19.2	6.6	76	87	13.7		6.9	18	12	4.3	
26-Jul	250	226	7.3	26.4	520	312	6.7	20.5	468	295	21.6	-138	-151	10.8	330	144	32.4	6.6	13.82	285	53	23.5	6.2	40	32	17.4	300	7.0	16	4	5.8	280
27-Jul	235	254	7.3	23.1	530	350	8.8	17.9	448	323	19.4	-8	185	25.6	440	508	45.0	6.7	9.17	272	58	25.6	6.3	50	42	18.7		6.9	32	15	7.0	
28-Jul	298	242	7.2	24.4	560	304	6.8	19.2	509	292	20.2	-79	60	25.7	430	352	45.9	7.1	13.30	ns	ns	ns	6.5	105	97	23.2	300	6.9	32	17	10.2	220
29-Jul	260	294	7.2	25.4	510	326	6.9	18.8	462	320	20.1	-2	54	17.4	460	374	37.5	7.0	13.45	ns	ns	ns	6.3	73	226	21.0		6.8	22	12	10.8	
30-Jul	302	270	7.3	23.8	570	236	6.7	19.1	519	242	20.0	51	194	7.0	570	436	27.0	6.8	12.58	355	71	20.3	6.3	54	44	13.6	300	7.1	19	12	5.7	200
31-Jul	265	222	7.2	24.2	500	354	6.8	19.1	455	329	20.1	-55	-9	3.3	400	320	23.4	6.7	12.39	270	71	21.1	6.4	38	58	15.2		7.0	22	17	5.8	
TOTAL	8128	7825	225.8	708.7	14703	17614	214	603.1	13343	15520	624.8	-252	-3487	451.9	13091	12033	1076.7	####	417.78	7398	1849	678.9	####	1271	1852	555.4	3620.0	214.9	778	449	262.1	2440.0
Week 1	251	271	7.3	25.6	490	534	6.9	20.8	442	481	21.8	-19	-105	13.1	423	376	34.8	6.7	12.20	268	70	25.1	6.3	30	24	18.2	290.0	7.1	26	15	8.6	220.0
Week 2	280	265	7.3	21.3	420	673	6.9	19.2	389	585	19.6	11	-173	17.4	400	412	37.0	6.9	15.08	234	55	23.5	6.5	30	28	18.6	293.3	6.9	28	18	9.7	180.0
Week 3	257	229	7.1	21.0	455	899	6.8	18.1	413	754	18.8	14	-330	15.1	427	424	33.8	6.7	13.57	245	62	23.3	6.3	36	38	19.8	293.3	6.9	23	10	8.8	206.7
Week 4	255	240	7.4	22.9	510	279	7.1	19.9	457	270	20.5	-41	75	15.1	416	346	35.6	6.8	13.33	258	66	22.3	6.4	77	153	21.3	326.7	6.9	24	14	7.1	213.3
Monthly	262	252	7.3	22.9	474	568	6.9	19.5	430	501	20.2	-8	-112	14.6	422	388	34.7	6.8	13.48	255	64	23.4	6.4	44	64	19.2	301.7	6.9	25	14	8.5	203.3
Min =	110	166	6.7	14	270	194	6.6	13	225	190	13.3	-255	-1253	-4.0	235	110	17.0	6.3	9.17	160	37	18.2	6.1	22	14	13.6	280.0	6.5	15	3	4.3	140.0
Max =	500	440	7.6	30	610	2153	8.8	27	538	1749	27.5	345	685	26.6	780	1088	54.1	7.1	19.77	355	93	34.2	6.8	158	640	38.4	380.0	7.3	36	34	17.2	280.0
									%Removal						%Removal																	
									96.49	97.98	96.29				96.42	97.40	97.85															

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		Final Settling								Filtrate		
chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
160	6.9	24	14	13	1.1				7.0		1500	238.0
175	6.9	19	12	13	1.0	160			7.1		1100	235.5
160	7.1	18	11	2	0.2				7.0		900	27.4
140	7.0	21	11	10	0.1				7.2		600	10.2
135	6.9	26	14	6	0.2				7.0		0	ns
140	6.7	36	21	5	1.1		9.5	0.063	7.1		1400	114.0
165	6.5	20	14	18	0.5	160			7.1		1300	307.0
175	6.6	26	13	11	1.9				7.7	112.0	1500	484.0
170	6.8	22	12	11	0.8	120			7.1		1800	292.0
135	6.9	22	13	4	3.0				7.1		1500	293.0
135	6.8	20	14	6	0.4				7.2	98.0	1600	300.0
140	6.9	21	13	10	1.0	160			7.2		600	18.4
165	6.9	21	13	7	1.2		6.0	0.116	7.2		1700	389.0
150	6.8	20	10	13	5.9	140			7.4		1400	224.0
145	6.6	16	10	8	0.5				5.7	109.0	1200	381.0
155	6.7	15	9	5	0.6	140			7.2		1300	342.0
145	6.7	19	12	7	0.3				7.1		2000	72.5
135	6.8	29	16	3	0.2				7.1	134.0	1300	139.5
145	6.9	15	13	7	0.3	160	10.0	0.078	7.6		900	326.0
155	7.0	23	17	8	0.6				7.4		1700	665.0
155	6.7	22	14	7	1.9	200			7.1		800	448.0
160	6.7	23	15	30	0.3				7.0	90.0	1500	438.0
160	6.7	26	15	8	0.3	200			7.3		2100	267.0
150	6.9	19	14	9	0.1				7.6	500.0	1200	200.0
130	6.7	20	13	17	0.1				7.7		0	
135	6.5	20	12	5	0.1	210	6.4	0.029	7.4		1100	735.0
165	6.9	23	14	13	0.2				7.2		1800	642.0
165	6.8	27	20	13	1.0	200			6.9		1400	163.0
170	6.7	26	16	15	1.5				6.9	80.0	1700	185.0
160	6.8	25	15	7	0.1	140			7.0		1900	541.0
150	7.0	18	14	7	0.0				7.3		1300	20.8
4725.0	210.5	682	424	298	26.4	1990.0	31.9	0.286	221.7	1123.0	40100.0	8498.3
153.6	6.8	23	14	10	0.6	160.0	9.5	0.063	7.1	#DIV/0!	971.4	155.3
152.9	6.8	22	13	9	2.0	140.0	6.0	0.116	7.3	105.0	1442.9	285.8
147.9	6.8	20	13	6	0.6	166.7	10.0	0.078	7.0	121.5	1314.3	339.1
152.1	6.7	23	15	14	0.3	203.3	6.4	0.029	7.3	295.0	1300.0	407.5
152.4	6.8	22	14	10	0.9	165.8	8.0	0.072	7.2	160.4	1293.5	293.0
130.0	6.5	15	9	2	0.0	120.0	6.0	0.029	5.7	80.0	0.0	10.2
175.0	7.1	36	21	30	5.9	210.0	10.0	0.116	7.7	500.0	2100.0	735.0

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
		Flow (MGD)																
1-Jul	9.900	1.764	0.641	2.500		12.400	14.060	5.140	5.350	0.676	41	43						
2-Jul	10.500	1.680	0.575	2.430		12.930	13.190	4.260	5.120	0.298	33	40						
3-Jul	9.600	1.693	0.522	2.400		12.000	12.990	5.350	5.190	0.415	45	43						
4-Jul	9.400	1.641	0.505	2.270		11.670	12.750	5.580	5.150	0.098	48	44						
5-Jul	9.920	1.771	0.613	2.580		12.500	13.730	3.890	5.150	0.637	31	41						
6-Jul	9.980	1.848	0.696	2.480		12.460	13.970	4.320	5.320	0.285	35	43						
7-Jul	9.000	1.693	0.628	2.470		11.470	13.690	5.410	5.360	0.681	47	47						
8-Jul	9.990	1.770	0.656	2.550		12.540	14.540	4.310	5.260	0.666	34	42						
9-Jul	9.840	1.956	0.646	2.870		12.710	16.650	3.690	5.310	0.410	29	42						
10-Jul	13.180	2.024	0.567	3.500		16.680	19.270	4.970	4.340	0.399	30	26						
11-Jul	10.940	1.768	0.660	2.760		13.700	14.510	4.970	5.060	0.373	36	37						
12-Jul	12.200	1.987	0.661	3.250		15.450	18.760	6.030	5.580	0.659	39	36						
13-Jul	11.600	2.338	0.760	3.120		14.720	17.180	5.930	5.300	0.751	40	36						
14-Jul	14.150	3.302	0.774	5.620		19.770	19.770	6.980	3.110	0.708	35	16						
15-Jul	11.050	1.973	0.695	3.300		14.350	16.680	5.130	6.850	0.803	36	48						
16-Jul	11.400	1.892	0.623	2.960		14.360	15.610	6.170	6.580	0.376	43	46						
17-Jul	10.100	1.835	0.559	2.850		12.950	14.790	6.950	5.970	0.387	54	46						
18-Jul	9.610	1.918	0.593	2.870		12.480	15.140	7.120	6.470	0.762	57	52						
19-Jul	10.700	1.953	0.700	2.920		13.620	15.870	6.430	6.570	0.639	47	48						
20-Jul	11.200	1.924	0.704	2.740		13.940	15.310	5.790	6.510	0.780	42	47						
21-Jul	10.340	1.973	0.707	2.980		13.320	17.090	5.810	6.360	0.763	44	48						
22-Jul	10.860	1.876	0.591	2.800		13.660	15.220	5.210	6.170	0.683	38	45						
23-Jul	14.630	1.568	0.644	2.610		17.240	15.460	6.000	5.850	0.546	35	34						
24-Jul	9.860	1.986	0.604	2.650		12.510	14.820	6.060	5.750	0.013	48	46						
25-Jul	10.830	1.951	0.647	2.810		13.640	15.220	5.760	5.680	0.434	42	42						
26-Jul	11.160	1.794	0.669	2.660		13.820	15.270	4.330	6.030	0.752	31	44						
27-Jul	6.610	1.783	0.649	2.560		9.170	14.790	5.020	6.140	0.967	55	67						
28-Jul	10.700	1.698	0.711	2.600		13.300	15.100	4.960	5.940	0.975	37	45						
29-Jul	10.850	2.305	0.620	2.600		13.450	15.030	3.620	5.950	0.671	27	44						
30-Jul	10.200	1.143	0.662	2.380		12.580	14.770	0.920	5.650	0.309	7	45						
31-Jul	10.000	1.701	0.543	2.390		12.390	13.830	2.930	5.430	0.258	24	44						
							AVG - no flow readings taken											
Total	330.300	58.508	19.825	87.480	0.000	417.780	475.060	159.040	174.500	17.174	1190.506	1324						
Week 1	9.757	1.727	0.597	2.447	#DIV/0!	12.204	13.483	4.850	5.234	0.441	40	43						
Week 2	11.700	2.164	0.675	3.381	#DIV/0!	15.081	17.240	5.269	4.851	0.567	35	34						
Week 3	10.629	1.924	0.654	2.946	#DIV/0!	13.574	15.784	6.200	6.473	0.644	46	48						
Week 4	10.664	1.808	0.645	2.670	#DIV/0!	13.334	15.126	5.334	5.937	0.624	41	46						
Monthly	10.655	1.887	0.640	2.822	#DIV/0!	13.477	15.325	5.130	5.629	0.554	38	43						
Min =	6.610	1.143	0.505	2.270	0.000	9.170	12.750	0.920	3.110	0.013	7	16						
Max =	14.630	3.302	0.774	5.620	0.000	19.770	19.770	7.120	6.850	0.975	57	67						

Influent flow used due to inaccuracy of effluent flow metering over 25 MGD.

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	July 2010			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jul															
2-Jul	7.0	600	3800	7.2	292	3620	7.3	125	5080	7.2	97	4140	7.2	180	5020
3-Jul															
4-Jul															
5-Jul															
6-Jul															
7-Jul	7.1	58	4900	7.2	147	4640	7.2	172	4620	7.2	106	4480	7.2	44	2840
8-Jul															
9-Jul	7.1	67	4720	7.0	114	4560	7.1	1128	4380	7.2	211	4720	7.2	92	4740
10-Jul															
11-Jul															
12-Jul	7.1	506	4360	7.0	72	4600	6.9	1172	3620	7.2	483	4460	7.3	139	4320
13-Jul															
14-Jul	7.1		4980	7.0		4100	7.2		4300	7.3		4500	7.3		5160
15-Jul															
16-Jul	7.0	62	4520	7.0	178	4400	6.9	1408	4380	7.1	267	1720	7.3	186	4920
17-Jul															
18-Jul															
19-Jul	7.1	61	4380	7.0	336	4340	7.0	1014	4560	7.1	69	5120	7.1	453	3140
20-Jul															
21-Jul	7.4		4810	7.5		4700	7.7		5020	7.2		4720	7.2		5180
22-Jul															
23-Jul	7.1	58	4810	7.1	72	4580	7.2	194	4960	6.9	61	760	7.2	269	5000
24-Jul															
25-Jul															
26-Jul	6.5	9	5080	6.5	17	4500	6.6	117	4440	6.9	27	1560	7.1	76	4800
27-Jul															
28-Jul	na		na	na		na	na		na	7.2		4940	7.2		5000
29-Jul															
30-Jul	6.8	80	4620	6.9	511	4440	7.1	472	4780	7.2	250	4760	7.2	47	4880
31-Jul															
Total	77.3	1501	50980	77.5	1739	48480	78.0	5802	50140	85.6	1571	45880	86.5	1486	55000
Week 1	7.1	329	4350	7.2	220	4130	7.3	149	4850	7.2	102	4310	7.2	112	3930
Week 2	7.1	287	4687	7.0	93	4420	7.1	1,150	4100	7.2	347	4560	7.3	116	4740
Week 3	7.2	62	4570	7.2	257	4480	7.2	1,211	4653	7.1	168	3853	7.2	320	4413
Week 4	6.8	34	4945	6.8	45	4540	6.9	156	4700	7.0	44	2420	7.2	173	4933
Monthly	7.0	167	4635	7.0	193	4407	7.1	645	4558	7.1	175	3823	7.2	165	4583
Min =	6.5	9	3800	6.5	17	3620	6.6	117	3620	6.9	27	760	7.1	44	2840
Max =	7.4	600	5080	7.5	511	4700	7.7	1408	5080	7.3	483	5120	7.3	453	5180

Print Date: 8/13/2010

Dissolved Oxygen -July 2010

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
7/1/2010	6.5	6.7	7.1	6.9	6.8	6.8	6.7		6.5
7/2/2010	7.1	7.4	7.4	7.2	6.9	6.6	7.7		6.6
7/3/2010	6.7	7.0	7.2	7.6	7.3	7.3	7.2		6.7
7/4/2010	7.3	7.3	7.3	7.2	7.0	6.9	7.3		6.9
7/5/2010	7.0	7.1	7.0	7.0	6.9	6.7	7.3		6.7
7/6/2010	6.8	6.9	6.6	6.6	6.1	5.8	6.8		5.8
7/7/2010	6.2	6.4	6.3	6.4	6.7	6.5	6.4		6.2
7/8/2010	6.5	6.7	6.6	6.5	6.5	6.2	6.7		6.2
7/9/2010	6.3	6.4	6.5	6.2	6.3	6.2	6.3		6.2
7/10/2010	6.4	6.7	6.4	6.0	5.8	6.3	6.3		5.8
7/11/2010	6.8	7.2	7.1	7.2	6.9	6.8	7.2		6.8
7/12/2010	6.9	7.0	6.9	7.1	7.3	6.7	6.8		6.7
7/13/2010	6.5	6.4	6.6	6.8	6.6	6.4	6.3		6.3
7/14/2010	6.5	6.6	6.7	6.2	5.6	5.9	6.8		5.6
7/15/2010	6.6	7.0	6.7	7.6	7.1	6.9	7.0		6.6
7/16/2010	6.9	7.2	6.9	7.0	7.0	6.8	6.9		6.8
7/17/2010	6.9	7.1	6.8	7.1	7.2	7.0	7.0		6.8
7/18/2010	6.9	7.1	6.9	6.8	7.0	6.8	6.9		6.8
7/19/2010	6.8	7.0	6.6	6.7	6.8	6.6	6.9		6.6
7/20/2010	6.6	6.8	6.5	6.6	6.6	6.5	6.8		6.5
7/21/2010	6.5	6.7	6.4	6.7	6.4	6.1	7.7		6.1
7/22/2010	6.3	6.4	6.3	6.7	7.2	7.0	6.2		6.2
7/23/2010	7.1	7.2	7.0	6.8	6.8	6.8	7.0		6.8
7/24/2010	6.8	6.8	6.8	6.9	6.7	6.6	6.9		6.6
7/25/2010	6.7	6.9	6.6	6.5	6.8	6.9	6.8		6.5
7/26/2010	7.1	7.2	6.6	7.0	7.1	6.9	8.0		6.6
7/27/2010	7.0	7.0	6.8	7.1	7.3	6.9	7.1		6.8
7/28/2010	6.8	7.0	6.7	6.7	6.4	6.1	6.6		6.1
7/29/2010	6.0	6.1	6.5	6.3	6.2	5.9	6.1		5.9
7/30/2010	6.1	6.6	6.4	6.5	6.8	6.8	6.6		6.1
7/31/2010	6.9	7.0	6.7	6.8	7.0	6.7	6.9		6.7
Min	6.00	6.10	6.30	6.00	5.60	5.80	6.1	Min	5.60
Max	7.30	7.40	7.40	7.60	7.30	7.30	8.0	Max	6.90
								Avg	6.44

	July 2010 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Jul	0.01	0.06	0.04	0.03	0.03	0.02	0.03	
2-Jul	0.04	0.15	0.04	0.02	0.05	0.03	0.06	
3-Jul	0.04	0.17	0.04	0.03	0.03	0.06	0.06	
4-Jul	0.03	0.26	0.05	0.04	0.04	0.00	0.07	
5-Jul	0.03	0.06	0.04	0.02	0.03	0.03	0.04	
6-Jul	0.04	0.06	0.05	0.04	0.02	0.04	0.04	
7-Jul	0.06	0.06	0.03	0.02	0.03	0.03	0.04	
8-Jul	0.03	0.07	0.04	0.00	0.03	0.00	0.03	
9-Jul	0.06	0.07	0.02	0.03	0.03	0.03	0.04	
10-Jul	0.01	0.02	0.02	0.02	0.03	0.03	0.02	
11-Jul	0.02	0.06	0.03	0.06	0.03	0.02	0.04	
12-Jul	0.02	0.05	0.05	0.03	0.03	0.03	0.04	
13-Jul	0.03	0.04	0.04	0.05	0.03	0.02	0.04	
14-Jul	0.00	0.04	0.04	0.01	0.01	0.03	0.02	
15-Jul	0.02	0.03	0.51	0.04	0.00	0.00	0.10	
16-Jul	0.02	0.04	0.05	0.05	0.03	0.03	0.04	
17-Jul	0.03	0.05	0.03	0.02	0.02	0.03	0.03	
18-Jul	0.02	0.01	0.03	0.04	0.03	0.00	0.02	
19-Jul	0.00	0.04	0.03	0.03	0.01	0.04	0.03	
20-Jul	0.02	0.04	0.04	0.03	0.02	0.00	0.03	
21-Jul	0.01	0.03	0.06	0.05	0.05	0.03	0.04	
22-Jul	0.01	0.04	0.04	0.04	0.05	0.00	0.03	
23-Jul	0.01	0.05	0.05	0.03	0.01	0.01	0.03	
24-Jul	0.01	0.03	0.05	0.00	0.00	0.00	0.02	0.04
25-Jul	0.02	0.06	0.03	0.02	0.03	0.00	0.03	
26-Jul	0.00	0.03	0.02	0.03	0.03	0.00	0.02	
27-Jul	0.02	0.03	0.04	0.03	0.03	0.02	0.03	
28-Jul	0.00	0.04	0.03	0.03	0.03	0.02	0.03	
29-Jul	0.00	0.01	0.03	0.03	0.02	0.03	0.02	
30-Jul	0.05	0.04	0.03	0.03	0.03	0.03	0.04	
31-Jul	0.02	0.03	0.04	0.02	0.02	0.03	0.03	
Average	0.02	0.06	0.05	0.03	0.03	0.02	0.03	
Minimum	0.00	0.01	0.02	0.00	0.00	0.00		
Maximum	0.06	0.26	0.51	0.06	0.05	0.06		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* July 2010

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to Incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 19.57	X 0.01	= 0.00
0.00	X 19.57	X 0.01	= 0.00
0.00	X 19.57	X 0.01	= 0.00
988.07	X 19.57	X 0.01	= 193.37
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 193.37

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	193.37
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Utilities Manager
Title

610-655-6258
Telephone

08/19/10
Date

City of Reading 3-C Watershed *for the Month* July 2010

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
REVISED

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607
ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

	MONITORING PERIOD		
	MM/DD/YYYY		MM/DD/YYYY
FROM	05/01/2010	TO	05/31/2010

RECEIVED
EPA REGION III
JUN 24 2010
WATER PROTECTION DIVISION
(3WP00)

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	59	******		0	Daily	COMP24
00080 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	* 5.0	******	******		~~1~~0	7/Daily	GRAB
00300 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	7.9		0	Daily	GRAB
00400 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	2176	3088		******	14	17		0	Daily	COMP24
00530 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	556	******		******	3.8	******		0	Daily	COMP24
00610 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	17.88	27.30		******	******	******	******	0	Contin uous	MEASRD
50050 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.03	******		0	2/Shift	GRAB
50060 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendant	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		06/18/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

~~*DO reading of 4.2 mg/L on 5/3/2010 was due to meter error resulting from a torn membrane. The laboratory DO meter membrane was changed immediately after the reading and side by side readings were done. Operations reading results were: Operations 5.9 mg/L Lab 6.2 mg/L~~ SEE PAGE 2 FOR REVISED COMMENT

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

REVISED

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	05/01/2010	TO	05/31/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	< 0.01148	******		******	< 0.00007	******		0	Weekly	COMP24
71900 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	055 MO AVG	******	lb/d	******	00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	10	******		0	Daily	GRAB
74055 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	200 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1793	2034		******	12	14		0	Daily	COMP24
80082 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendant	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		06/18/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) *A DO reading of 4.2 mg/1 at 0757 on 5/3/2010 was due to meter error resulting from a torn membrane. During DEP inspection at 0945, simultaneous DO readings by WWTP lab, DEP and WWTP operators resulted in 4.05 mg/1, 5.97 mg/1 and 6.15 mg/1 respectively. This confirmed the lab DO meter membrane problem. The laboratory DO meter membrane was changed directly after the reading and side by side readings were done. Operations reading results were: Operations 5.9 mg/1 Lab 6.20 mg/1

May 2010 — City of Reading Wastewater Treatment Plant

	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	Inches	(°F)	(°F)
1-May	19.2	18	9	11	2.2	16.21	6.5	7.9	0.40		5	70	0.00	51	91
2-May	19.7	29	16	15	5.5	22.700	6.2	7.9	0.40		3	70	1.23	64	86
3-May	20.0	22	12	25	4.0	27.300	5.0	7.6	1.51		10	50	0.92	59	80
4-May	18.1	19	9	16	1.0	22.61	7.2	7.5	0.81		36	50	0.00	52	78
5-May	18.9	16	9	14	3.8	21.38	6.8	7.6	0.72		60	50	0.00	47	80
6-May	19.4	20	12	15	3.6	19.82	6.8	7.6	0.82		2	50	0.00	59	78
7-May	18.2	21	12	16	3.2	17.93	6.8	7.5	0.62		11	50	0.00	45	74
8-May	18.0	19	9	18	1.0	17.96	6.7	7.4	0.57		10	70	0.12	47	71
9-May	16.8	23	12	19	0.7	17.46	7.2	7.4	0.63		11	60	0.00	43	54
10-May	17.5	23	14	16	3.0	17.60	7.8	7.9	0.71		60	60	0.00	39	64
11-May	16.5	24	17	16	2.5	20.39	7.6	7.5	0.41		23	60	0.31	33	56
12-May	17.7	25	16	17	3.5	19.00	7.5	7.5	0.4		71	50	0.50	45	54
13-May	18.8	26	11	14	5.5	17.09	7.1	7.3	0.58		9	50	0.00	41	72
14-May	19.2	30	13	16	5.8	16.90	6.4	7.4	0.49		10	60	0.01	57	84
15-May	19.8	26	12	14	4.4	16.05	6.5	7.4	0.45		13	60	0.00	52	76
16-May	19.7	18	10	12	2.5	17.11	6.7	7.4	0.68		14	65	0.00	52	76
17-May	18.9	22	12	15	3.8	17.72	6.7	7.4	0.63		6	60	0.02	48	69
18-May	18.4	26	12	13	4.1	18.50	7.1	7.5	0.63		8	60	0.30	49	53
19-May	18.8	26	12	14	2.5	16.88	7.4	7.4	0.73		8	65	0.00	51	66
20-May	19.2	24	10	14	6.0	16.14	6.5	7.6	0.60		11	65	0.01	54	85
21-May	21.0	22	11	14	1.7	15.36	6.5	7.5	0.57		2	60	0.00	53	92
22-May	20.1	23	10	10	1.5	15.96	6.7	7.4	0.62		3	60	0.00	66	67
23-May	19.9	24	12	16	2.7	17.46	6.9	7.5	0.53		21	50	0.05	62	75
24-May	20.6	30	14	14	3.8	16.85	6.6	7.4	0.70		56	50	0.10	62	78
25-May	21.2	26	11	16	4.1	18.38	6.4	7.6	0.50		7	60	0.00	62	87
26-May	21.9	32	13	13	4.5	14.73	6.4	7.5	0.62		14	60	0.00	61	94
27-May	22.0	32	9	14	6.5	16.52	6.3	7.4	0.52		3	65	0.11	59	94
28-May	20.7	22	22	11	9.4	15.32	6.3	7.5	0.52		49	65	0.05	58	75
29-May	20.9	18	8	7	7.9	15.62	6.8	7.3	0.58		6	65	0.00	63	80
30-May	21.1	15	10	10	5.1	14.72	6.4	7.7	0.71		1	65	0.07	62	90
31-May	20.7	15	13	7	1.8	16.49	6.5	7.4	0.69		5	65	0.01	59	90
						See DO profile									
TOTAL		716	372	442	117.3	554.2	####	232.8	19.36			1840	3.81		
Week 1	19.1	21	11	17	3.3	21.14	6.47	7.65	0.75		18	56	0.31	54	81
Week 2	17.8	24	14	16	3.1	18.06	7.19	7.50	0.54		28	59	0.13	44	65
Week 3	19.4	23	11	13	3.6	16.82	6.77	7.45	0.61		9	62	0.05	51	74
Week 4	20.9	27	13	13	4.6	16.46	6.51	7.46	0.57		22	59	0.04	61	81
Monthly	19.4	23	12	14	3.8	17.88	6.72	7.51	0.62		10	59	0.12	53	76
Only weekly highlighted averages have been adjusted as stated below.															
Min =	16.5	15	8	7	0.7	14.72	5.0	7.3	0.40		1	50	0.00	33	53
Max =	22.0	32	22	25	9.4	27.30	7.8	7.9	1.51		71	70	1.23	66	94

Weekly averages: 5/2-8, 5/9-15, 5/16-22, 5/23-29th. 5/1 included in April report. 5/30 & 5/31 included in June report.

DISCHARGE LIMITATIONS														
Ave Monthly:		20	30	6		Min.	6.0			200	186			
Ave Weekly:		30	45			of	to							
Inst. Max:		40	60	12		5.0	9.0				465			

DO Excursion of 4.15 taken at 0757 on 5/3/10 was due to meter error even with an acceptable calibration. Simultaneous readings were done with DEP during their inspection on May 3rd at 0945 on a separate sample. DEP's result was a 5.97, City of Reading laboratory DO meter was 4.05 mg/L and operations meter result was 6.15 mg/L.

Laboratory DO meter membrane was changed directly after the reading and side by sides were done with the Operators DO meter. 5.9 and 6.20 respectively. Operations and DEP DO meters was the HQ40d. Laboratory was the YSI PRO20.

Print Date: 6/21/2010

Dissolved Oxygen -May 2010

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
5/1/2010	7.0	7.1	7.3	7.5	7.2	6.5	7.4		6.5
5/2/2010	6.5	6.6	6.8	6.8	6.7	6.2	6.8		6.2
5/3/2010	5.2	5.0	6.2	6.6	6.7	7.2	4.15*		5.0
5/4/2010	8.0	8.3	8.4	7.8	7.5	7.2	8.5		7.2
5/5/2010	7.5	8.1	7.9	7.5	7.2	6.8	8.4		6.8
5/6/2010	6.8	7.0	6.9	7.0	7.0	6.9	6.9		6.8
5/7/2010	6.9	7.2	7.2	7.4	6.9	6.8	8.5		6.8
5/8/2010	6.7	6.9	7.0	7.2	7.0	7.2	7.2		6.7
5/9/2010	7.2	7.9	8.1	8.3	8.3	7.9	8.3		7.2
5/10/2010	7.8	8.0	8.4	8.0	8.3	7.9	8.4		7.8
5/11/2010	7.8	7.8	8.2	8.2	8.2	7.6	7.8		7.6
5/12/2010	7.6	7.5	7.6	7.6	7.6	7.7	7.6		7.5
5/13/2010	7.6	7.6	8.1	7.6	7.2	7.1	8.1		7.1
5/14/2010	7.2	7.2	7.0	7.2	7.0	6.4	7.1		6.4
5/15/2010	6.5	6.6	6.7	6.7	6.7	6.5	6.8		6.5
5/16/2010	6.7	7.0	7.2	7.3	7.1	6.7	7.3		6.7
5/17/2010	6.7	6.8	7.3	7.4	7.1	7.2	6.9		6.7
5/18/2010	7.2	7.2	7.6	7.6	7.4	7.5	7.1		7.1
5/19/2010	7.6	7.4	7.8	7.8	7.7	7.4	7.5		7.4
5/20/2010	7.4	7.4	7.5	7.6	7.3	6.5	7.0		6.5
5/21/2010	6.7	6.8	6.6	7.1	7.2	6.5	6.6		6.5
5/22/2010	6.7	7.0	7.2	7.2	7.1	6.8	7.1		6.7
5/23/2010	6.9	6.9	7.1	7.2	7.2	6.9	7.1		6.9
5/24/2010	7.0	7.1	7.2	7.3	7.0	6.6	7.0		6.6
5/25/2010	6.7	6.8	6.6	6.8	6.9	6.4	6.6		6.4
5/26/2010	6.6	6.7	6.8	6.9	6.8	6.4	6.4		6.4
5/27/2010	6.6	6.6	6.5	6.6	6.6	6.3	6.4		6.3
5/28/2010	6.5	6.6	6.3	6.7	6.6	6.8	6.3		6.3
5/29/2010	6.8	6.9	7.1	7.3	7.2	6.8	6.9		6.8
5/30/2010	6.9	7.0	7.0	7.1	7.0	6.4	7.0		6.4
5/31/2010	6.6	6.9	6.8	7.0	6.8	6.5	6.8		6.5
Min	5.20	5.00	6.20	6.60	6.60	6.20	6.3	Min	5.00
Max	8.00	8.30	8.40	8.30	8.30	7.90	8.5	Max	7.80
								Avg	6.72

DO Excursion of 4.15 taken at 0757 on 5/3/10 was due to meter error even with an acceptable calibration. Simultaneous readings were done with DEP during their inspection on May 3rd at 0945 on a separate sample. DEP's result was a 5.97, City of Reading laboratory DO meter was 4.05 mg/L and operations meter result was 6.15 mg/L.

Laboratory DO meter membrane was changed directly after the reading and side by sides were done with the Operators DO meter. 5.9 and 6.20 respectively. Operations and DEP DO meters was the HQ40d. Laboratory was the YSI PRO20.

CITY OF READING, PENNSYLVANIA

UTILITIES DIVISION
WASTE WATER TREATMENT PLANT
815 WASHINGTON STREET
READING, PA 19601-3690
(610) 655-6258

PUBLIC WORKS DEPARTMENT

June 21, 2010

RECEIVED
EPA REGION III
JUN 24 2010
WATER PROTECTION DIVISION
(3WP00)

Mr. Shawn Arbaugh
Environmental Compliance Specialist Supervisor
PA Department of Environmental Protection
Southcentral Region
909 Elmerton Avenue
Harrisburg, PA 17110-8200

Re: City of Reading
May 2010 Revised DMR

Dear Mr. Arbaugh:

Enclosed please find the revised May 2010 DMR for the City of Reading Wastewater Treatment Plant. Also enclosed is the revised page one for the Monthly Operating Report and the Monthly Dissolved Oxygen Profile. The comment at the bottom of page one of the DMR was not clear so we revised it as rewritten at the bottom of page two. The notes on page one of the Monthly Operating Report and the Monthly Dissolved Oxygen Profile were also rewritten for clarification.

Please feel free to contact me at 610-655-6258 with any questions or comments.

Sincerely,

Ralph E. Johnson

Ralph E. Johnson
WWTP Superintendent

REJ/eh

Encl.

Cc: US EPA
Delaware River Basin Commission
DMR – file

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

RECEIVED
EPA REGION III
JUN 22 2010
WATER PROTECTION DIVISION
(3WP00)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	05/01/2010	TO	05/31/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	59	******		0	Daily	COMP24
00080 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	* 5.0	******	******		1 0	7/Daily	GRAB
00300 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	7.9		0	Daily	GRAB
00400 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	2176	3088		******	14	17		0	Daily	COMP24
00530 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	556	******		******	3.8	******		0	Daily	COMP24
00610 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	1000 MO AVG	******	lb/d	******	6 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	17.88	27.30		******	******	******	******	0	Continuous	MEASRD
50050 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.03	******		0	2/Shift	GRAB
50060 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendant	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		06/18/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

* A DO reading of 4.2 mg/l on 5/3/2010 was due to meter error resulting from a torn membrane. The laboratory DO meter membrane was changed directly after the reading and side by side readings were done. Operations reading results were: Operations 5.9 mg/l Lab 6.20 mg/l.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	05/01/2010	TO	05/31/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01148	******		******	<0.00007	******		0	Weekly	COMP24
71900 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	10	******		0	Daily	GRAB
74055 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	200 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1793	2034		******	12	14		0	Daily	COMP24
80082 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	3336 MO AVG	5004 MX WK AV	lb/d	******	20 MO AVG	30 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson Superintendant	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		06/18/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

	May 2010					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-May	19.2	18	9	11	2.2	16.21	6.5	7.9	0.40		5	70	0.00	51	91
2-May	19.7	29	16	15	5.5	17.30	6.2	7.9	0.40		3	70	1.23	64	86
3-May	20.0	22	12	25	4.0	17.300	5.0	7.6	1.51		10	50	0.92	59	80
4-May	18.1	19	9	16	1.0	22.61	7.2	7.5	0.81		36	50	0.00	52	78
5-May	18.9	16	9	14	3.8	21.38	6.8	7.6	0.72		60	50	0.00	47	80
6-May	19.4	20	12	15	3.6	19.82	6.8	7.6	0.82		2	50	0.00	59	78
7-May	18.2	21	12	16	3.2	17.93	6.8	7.5	0.62		11	50	0.00	45	74
8-May	18.0	19	9	18	1.0	17.96	6.7	7.4	0.57		10	70	0.12	47	71
9-May	16.8	23	12	19	0.7	17.46	7.2	7.4	0.63		11	60	0.00	43	54
10-May	17.5	23	14	16	3.0	17.60	7.8	7.9	0.71		60	60	0.00	39	64
11-May	16.5	24	17	16	2.5	20.39	7.6	7.5	0.41		23	60	0.31	33	56
12-May	17.7	25	16	17	3.5	19.00	7.5	7.5	0.4		71	50	0.50	45	54
13-May	18.8	26	11	14	5.5	17.09	7.1	7.3	0.58		9	50	0.00	41	72
14-May	19.2	30	13	16	5.8	16.90	6.4	7.4	0.49		10	60	0.01	57	84
15-May	19.8	26	12	14	4.4	16.05	6.5	7.4	0.45		13	60	0.00	52	76
16-May	19.7	18	10	12	2.5	17.11	6.7	7.4	0.68		14	65	0.00	52	76
17-May	18.9	22	12	15	3.8	17.72	6.7	7.4	0.63		6	60	0.02	48	69
18-May	18.4	26	12	13	4.1	18.50	7.1	7.5	0.63		8	60	0.30	49	53
19-May	18.8	26	12	14	2.5	16.88	7.4	7.4	0.73		8	65	0.00	51	66
20-May	19.2	24	10	14	6.0	16.14	6.5	7.6	0.60		11	65	0.01	54	85
21-May	21.0	22	11	14	1.7	15.36	6.5	7.5	0.57		2	60	0.00	53	92
22-May	20.1	23	10	10	1.5	15.96	6.7	7.4	0.62		3	60	0.00	66	67
23-May	19.9	24	12	16	2.7	17.46	6.9	7.5	0.53		21	50	0.05	62	75
24-May	20.6	30	14	14	3.8	16.85	6.6	7.4	0.70		56	50	0.10	62	78
25-May	21.2	26	11	16	4.1	18.38	6.4	7.6	0.50		7	60	0.00	62	87
26-May	21.9	32	13	13	4.5	14.73	6.4	7.5	0.62		14	60	0.00	61	94
27-May	22.0	32	9	14	6.5	16.52	6.3	7.4	0.52		3	65	0.11	59	94
28-May	20.7	22	22	11	9.4	15.32	6.3	7.5	0.52		49	65	0.05	58	75
29-May	20.9	18	8	7	7.9	15.62	6.8	7.3	0.58		6	65	0.00	63	80
30-May	21.1	15	10	10	5.1	14.72	6.4	7.7	0.71		1	65	0.07	62	90
31-May	20.7	15	13	7	1.8	16.49	6.5	7.4	0.69		5	65	0.01	59	90
						See DO profile									
TOTAL		716	372	442	117.3	554.2	####	232.8	19.36			1840	3.81		
Week 1	19.1	21	11	17	3.3	21.14	6.47	7.65	0.75		18	56	0.31	54	81
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Monthly	19.4	23	12	14	3.8	17.88	6.72	7.51	0.67		10	59	0.12	53	76
Only weekly highlighted averages have been adjusted as stated below.															
Min =	16.5	15	8	7	0.7	14.72	5.0	7.3	0.40		1	50	0.00	33	53
Max =	22.0	32	22	25	9.4	27.30	7.8	7.9	1.51		71	70	1.23	66	94
Weekly averages: 5/2-8, 5/9-15, 5/16-22, 5/23-29th. 5/1 included in April report. 5/30 & 5/31 included in June report.															
DISCHARGE LIMITATIONS															
Ave Monthly:			20	30	6		Min.	6.0			200	186			
Ave Weekly:			30	45			of	to							
Inst. Max:			40	60	12		5.0	9.0				465			

Exceedence was due to meter error even with an acceptable calibration. Simultaneous readings were done with DEP during their inspection on May 3rd. DEP's result was a 5.97, City of Reading laboratory DO meter was 4.05 mg/L and operations meter result was 6.15 mg/L. Operations and DEP DO meters was the HQ40d. Laboratory was the YSI PRO20.

Laboratory DO meter membrane was changed directly after the reading and side by sides were done with the Operators DO meter. 5.9 and 6.20 respectively.

Print Date: 6/17/2010

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-May	6,572	42,843	49,415	-306		49,109	2,433	1,217	8,659	63,262	71,921	-29,360	42,561	1,487	41,909	559	1,841	2401	452	24,747	2,853	299
2-May	13,774	59,214	72,988	36,720	5,031	109,708	5,497	3,033	10,772	46,779	57,552	12,056	69,608	2,844	45,737	724	2,235	2,959	673	8,028	3,632	1,037
3-May	6,305	50,674	56,979	-58		56,921	5,009	2,732	6,165	28,956	35,121	7,227	42,349	5,692	59,172	514	1,421	1,934	3,644	10,613	5,578	902
4-May	5,067	44,369	49,436	24,143		73,579	3,583	1,697	4,193	30,424	34,618	32,655	67,272	3,017	73,559	594	1,534	2,128	2,934	586	5,062	189
5-May	7,356	40,157	47,513	-21,654		25,859	2,853	1,605	7,323	61,895	69,219	-59,155	10,064	2,496	58,547	559	1,371	1,930	3,242	13,886	5,172	669
6-May	8,047	49,389	57,437	-8,388	5,161	49,049	3,306	1,984	6,301	40,390	46,690	-4,970	41,720	2,479	55,578	574	1,569	2,143	2,705	15,811	4,849	595
7-May	8,353	45,964	54,317	6,194		60,512	3,140	1,794	7,094	21,348	28,443	15,841	44,284	2,393	29,023	503	1,601	2,105	1,169	25,674	3,273	477
8-May	10,563	36,629	47,192	15,538		62,730	2,846	1,348	11,923	49,450	61,373	-5,177	56,196	2,696	27,022	457	1,506	1,963	376	7,882	2,339	154
9-May	6,731	36,758	43,490	-7,361	2,952	36,129	3,349	1,747	7,263	31,313	38,576	-2,066	36,509	2,767	59,047	655	1,741	2,396	1,622	3,897	4,019	96
10-May	7,893	59,548	67,441	-8,820		58,620	3,376	2,055	7,780	39,698	47,479	-3,641	43,838	2,349	90,072	620	1,667	2,287	1,013	6,080	3,301	442
11-May	7,818	49,915	57,733	-4,077		53,656	4,081	2,891	6,639	117,134	123,773	-60,749	63,024	2,721	41,033	586	1,730	2,317	2,467	3,098	4,784	423
12-May	6,228	42,034	48,261	-8,173		40,088	3,962	2,535	9,102	107,980	117,082	-64,658	52,423	2,694	108,212	557	1,382	1,939	4,265	17,530	6,204	555
13-May	6,865	45,862	52,727	-14,042	6,814	38,685	3,706	1,568	9,696	43,520	53,216	-19,052	34,163	1,995	102,207	628	1,766	2,394	3,082	8,722	5,476	787
14-May	6,062	44,240	50,302	793		51,095	4,228	1,832	3,110	26,334	29,443	-2,579	26,864	2,255	26,771	625	1,970	2,594	2,067	4,623	4,662	817
15-May	4,685	41,846	46,531	-2,818		43,713	3,480	1,606	1,553	54,865	56,417	-22,405	34,013	1,874		554	1,646	2,200	159		2,359	586
16-May	6,312	40,002	46,314	-15,331		30,983	2,569	1,427	7,115	111,625	118,740	-82,551	36,188	1,712		712	1,829	2,540	1,029		3,569	355
17-May	6,385	40,282	46,667	37,868		84,535	3,251	1,773	6,119	53,710	59,829	-23,564	36,264	2,217		636	1,765	2,401	650		3,051	557
18-May	6,269	43,785	50,054	-4,371		45,683	4,012	1,851	7,566	30,858	38,424	695	39,119	2,006		981	1,741	2,722	1,518		4,240	631
19-May	6,094	44,235	50,329	-16,852		33,477	3,660	1,689	6,247	65,919	72,167	-62,056	10,111	1,971		650	1,700	2,350	1,289		3,640	346
20-May	6,987	39,323	46,310	-6,183		40,127	3,231	1,346	6,370	31,458	37,829	5,946	43,775	1,885		586	2,005	2,590	1,252		3,842	806
21-May	4,413	45,615	50,027	-10,909		39,119	2,818	1,409	4,055	27,468	31,523	4,151	35,674	1,793		580	2,112	2,692	-47		2,645	220
22-May	7,746	40,532	48,279	-6,712		41,566	3,061	1,331	7,820	25,580	33,400	4,617	38,017	1,331		535	1,693	2,229	1,092		3,321	200
23-May	4,789	38,652	43,441	-3,868		39,572	3,495	1,747	9,258	32,034	41,292	-14,339	26,953	2,330		716	1,966	2,682	785		3,467	386
24-May	4,539	42,409	46,948	-1,280		45,668	4,216	1,967	3,320	69,551	72,871	-24,799	48,072	1,967		581	1,857	2,438	1,528		3,966	538
25-May	7,205	47,438	54,643	-12,679		41,964	3,986	1,686	5,383	32,218	37,602	2,472	40,074	2,453		1,060	1,986	3,047	1,855		4,902	622
26-May	6,445	47,356	53,801	-17,168		36,633	3,931	1,597	8,056	24,331	32,388	-7,268	25,120	1,597		732	1,527	2,259	965		3,224	555
27-May	3,664	36,319	39,983	4,730		44,713	4,409	1,240	3,942	80,284	84,226	-37,096	47,130	1,929		364	1,701	2,065	1,355		3,420	898
28-May	9,224	43,697	52,921	1,518		54,439	2,811	2,811	11,910	29,258	41,167	6,644	47,811	1,405		638	1,957	2,594	2,755		5,349	1,205
29-May	6,638	47,296	53,934	-12,550		41,385	2,345	1,042	6,391	26,950	33,340	2,230	35,570	912		681	1,838	2,519	1,186		3,705	1,024
30-May	10,495	36,779	47,274	-7,497		39,778	1,841	1,228	11,974	18,740	30,714	1,153	31,867	1,228		615	1,673	2,288	-216		2,072	629
31-May	6,785	42,726	49,511	588		50,099	2,063	1,788	6,350	76,725	83,074	-42,529	40,545	963		714	1,864	2,578	1,244		3,822	241
TOTAL	216,309	1,365,889	1,582,198	-63,003	19,958	1,519,195	106,549	55,579	219,450	1,500,057	1,719,507	-472,328	1,247,179	67,457	817,887	19,490	54,194	73,684	48,113	151,176	121,797	17,241
Week 1	7,925	47,516	55,441	5,236	5,096	60,677	3,689	2,028	7,215	41,865	49,081	-3,672	45,408	3,088	49,805	575	1,653	2,229	2,117	14,192	4,345	595
Week 2	7,451	44,998	52,449	-3,735	4,883	48,715	3,650	2,034	7,930	59,347	67,277	-22,560	44,717	2,379	64,909	590	1,680	2,270	2,128	7,405	4,398	468
Week 3	5,878	42,155	48,033	-2,656	#DIV/0!	45,377	3,289	1,547	5,575	53,700	59,275	-25,683	33,592	1,845	#DIV/0!	671	1,828	2,499	836	#DIV/0!	3,335	500
Week 4	6,230	42,343	48,574	-5,066	#DIV/0!	43,508	3,701	1,727	7,098	41,894	48,992	-9,967	39,025	1,799	#DIV/0!	661	1,812	2,473	1,477	#DIV/0!	3,950	629
Monthly	6,978	44,061	51,039	-2,032	4,989	49,006	3,437	1,793	7,079	48,389	55,468	-15,236	40,232	2,176	58,421	629	1,748	2,377	1,552	10,798	3,929	556
Min =	3664	36319	39983	-21654	2952	25,859	1,841	1,042	1,553	18,740	28,443	-82,551	10,064	912	26,771	364	1,371	1,930	-216	586	2,072	96
Max =	13774	59548	72988	37868	6814	109,708	5,497	3,033	11,974	117,134	123,773	32,655	69,608	5,692	108,212	1,060	2,235	3,047	4,265	25,674	6,204	1,205
								3,336						7,130								1,000
								5,004						10,696								

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DATE	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-May								
2-May								
3-May								
4-May								
5-May	0.00007	0.00229	< 0.00007	< 0.00750	0.00008	0.01118	< 0.00007	< 0.01248
6-May								
7-May								
8-May								
9-May								
10-May								
11-May	< 0.00007	< 0.00217	0.00007	0.00776	0.00020	0.02839	< 0.00007	< 0.01190
12-May								
13-May								
14-May								
15-May								
16-May								
17-May								
18-May	0.00008	0.00216	0.00007	0.00730	0.00030	0.03938	< 0.00007	< 0.01080
19-May								
20-May								
21-May								
22-May								
23-May								
24-May								
25-May	0.00010	0.00272	0.00008	0.00791	0.00020	0.02520	< 0.00007	< 0.01073
26-May								
27-May								
28-May								
29-May								
30-May								
31-May								
Total	0.00032	0.00934	0.00029	0.03046	0.00078	0.10416	0.00028	0.04592
Week 1	0.00007	0.00229	< 0.00007	< 0.00750	0.00008	0.01118	< 0.00007	< 0.01248
Week 2	< 0.00007	< 0.00217	0.00007	0.00776	0.00020	0.02839	< 0.00007	< 0.01190
Week 3	0.00008	0.00216	0.00007	0.00730	0.00030	0.03938	< 0.00007	< 0.01080
Week 4	0.00010	0.00272	0.00008	0.00791	0.00020	0.02520	< 0.00007	< 0.01073
Monthly	< 0.00008	< 0.00234	< 0.00007	< 0.00762	0.00020	0.02604	< 0.00007	< 0.01148
Min =	< 0.00007	< 0.00216	< 0.00007	0.00730	0.00008	0.01118	< 0.00007	< 0.01073
Max =	0.00010	0.00272	0.00008	0.00791	0.00030	0.03938	< 0.00007	< 0.01248
							0.00023	0.055
							0.00046	

Print Date: 6/15/2010

May 2010	City of Reading Wastewater Treatment Plant																					Laboratory Process Control Data									
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent					Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
1-May	255	336	7.6	21.7	470	694	7.2	20.2	423	615	20.5	-3	-251	3.9	420	364	24.4	7.0	14.02	260	72	22.2	6.7	44	27	19.2		6.9	36	16	9.7	
2-May	335	262	7.6	17.6	400	316	7.2	15.1	386	304	15.6	194	64	3.6	580	368	19.2	7.0	22.68	253	69	17.5	6.7	79	62	17.3		6.9	36	17	10.5	
3-May	135	132	7.2	11.0	280	160	7.2	7.9	250	154	8.5	0	32	16.0	250	186	24.5	6.9	27.30	160	88	12.0	6.7	40	46	10.3	280	7.4	49	49	8.2	220
4-May	145	120	7.3	17.0	350	240	7.2	12.1	306	214	13.2	149	202	18.1	455	416	31.3	7.2	19.39	245	78	16.8	7.0	45	42	14.0		6.9	NS	NS	NS	
5-May	225	224	7.6	17.1	375	578	7.2	12.8	340	495	13.8	-155	-423	23.2	185	72	37.0	6.9	16.76	210	59	19.4	6.5	21	13	17.7	280	6.6	32	25	9.8	220
6-May	258	202	7.4	18.4	450	368	7.1	14.3	408	331	15.2	-60	-35	19.2	348	296	34.4	7.4	16.90	265	86	19.3	6.9	48	33	17.8		6.9	NS	NS	NS	
7-May	292	248	7.4	17.6	422	196	7.0	14.7	395	207	15.3	45	115	8.5	440	322	23.8	7.1	16.49	285	83	18.2	6.6	32	19	17.1	280	7.2	34	17	11.0	240
8-May	365	412	7.1	15.8	360	486	6.9	14.8	361	470	15.0	119	-40	2.9	480	430	17.9	6.9	15.67	235	68	14.6	6.7	19	13	12.7		6.6	32	15	7.2	
9-May	228	246	7.3	22.2	378	322	7.1	17.9	343	304	18.9	-58	-16	12.8	285	288	31.7	6.9	15.20	215	74	19.1	6.7	32	35	16.0		7.3	33	21	7.9	
10-May	280	276	7.8	22.0	600	400	7.2	16.8	529	373	18.0	-69	-29	7.9	460	344	25.9	7.6	15.28	242	69	20.6	7.0	46	34	18.0	280	7.4	42	31	11.3	200
11-May	252	214	7.5	18.9	450	1056	7.1	15.6	407	872	16.3	-29	-428	17.4	378	444	33.7	6.7	17.02	248	78	19.0	6.2	50	38	16.0		6.9	31	16	7.6	
12-May	208	304	7.4	18.6	450	1156	7.0	14.8	391	949	15.7	-66	-524	34.6	325	425	50.3	7.1	14.79	295	83	19.9	6.6	46	48	16.7	300	7.1	36	30	10.7	280
13-May	245	346	7.6	22.4	470	446	7.0	18.1	420	424	19.1	-112	-152	24.5	308	272	43.6	7.2	15.06	255	54	25.6	6.6	52	26	24.4		7.0	28	11	15.7	
14-May	230	118	7.5	23.7	420	250	6.9	18.7	382	224	19.7	6	-20	15.7	388	204	35.4	6.7	15.79	270	62	25.6	6.5	37	16	23.2	280	6.7	44	25	14.6	240
15-May	175	58	7.6	20.7	450	590	7.1	17.7	389	471	18.4	-24	-187	1.3	365	284	19.7	7.6	14.36	258	54	21.3	6.6	28	17	20.3		6.6	ns	NS	NS	
16-May	220	248	7.5	24.8	420	1172	7.0	19.2	374	958	20.5	-124	-666	8.3	250	292	28.8	6.6	14.86	195	88	21.8	6.5	37	21	19.8		6.8	25	13	11.9	
17-May	240	230	7.5	23.9	420	560	7.0	18.4	381	488	19.6	309	-192	5.3	690	296	24.9	7.2	14.69	252	83	23.9	6.5	37	31	21.5	300	6.9	ns	NS	NS	240
18-May	232	280	7.5	36.3	420	296	7.0	16.7	381	293	20.7	-33	5	11.6	348	298	32.3	7.1	15.74	278	69	22.3	6.4	52	43	18.5		7.2	41	28	12.9	
19-May	238	244	7.5	25.4	510	760	7.0	19.6	448	642	20.9	-150	-552	11.5	298	90	32.4	7.4	13.47	230	64	25.8	6.5	25	18	21.3	300	7.2	26	13	12.9	220
20-May	272	248	7.4	22.8	410	328	6.9	20.9	381	311	21.3	-51	49	10.3	330	360	31.6	7.2	14.58	230	-61	27.7	6.5	48	39	24.4		6.9	37	21	17.4	
21-May	185	170	8.2	24.3	460	277	7.0	21.3	407	256	21.9	-89	34	-0.4	318	290	21.5	6.8	14.75	245	88	20.1	6.5	34	35	18.3	300	6.9	36	21	11.8	240
22-May	317	320	7.6	21.9	450	284	7.4	18.8	422	292	19.5	-59	40	9.5	363	332	29.0	7.4	13.73	230	70	23.5	6.5	32	18	20.0		7.1	41	18	12.1	
23-May	180	348	7.3	26.9	403	334	7.2	20.5	355	337	21.9	-32	-117	6.4	323	220	28.3	7.3	14.69	237	77	26.6	6.6	32	25	22.3		7.1	22	13	12.7	
24-May	175	128	7.7	22.4	450	738	7.1	19.7	391	606	20.3	-11	-206	12.7	380	400	33.0	7.3	14.41	282	91	24.8	6.7	39	25	20.8	300	7.6	40	20	15.2	220
25-May	265	198	7.4	39.0	480	326	6.9	20.1	434	298	24.2	-101	20	14.7	333	318	38.9	7.2	15.11	235	74	30.0	6.5	35	22	23.7		6.9	37	24	16.6	
26-May	280	350	7.5	31.8	580	298	7.0	18.7	514	309	21.6	-164	-69	9.2	350	240	30.8	7.2	12.55	262	51	30.3	6.5	25	16	24.5	320	7.0	38	10	17.8	340
27-May	145	156	8.3	14.4	380	840	7.1	17.8	331	697	17.1	39	-307	11.2	370	390	28.3	7.5	14.49	258	88	25.4	6.8	54	59	22.3		6.9	37	17	16.4	
28-May	395	510	7.5	27.3	460	308	7.1	20.6	447	348	21.9	13	56	23.3	460	404	45.2	7.3	14.19	278	89	32.5	6.7	48	47	26.5	280	7.4	25	10	19.8	220
29-May	268	258	6.8	27.5	530	302	6.8	20.6	473	292	22.1	-110	20	10.4	363	312	32.5	6.9	13.67	265	76	26.9	6.5	28	15	22.2		6.9	33	11	15.8	
30-May	440	502	7.2	25.8	420	214	7.1	19.1	424	276	20.5	-67	10	-1.9	357	286	18.6	6.9	13.36	293	73	22.3	6.8	70	60	21.2		7.1	21	5	15.1	
31-May	265	248	7.8	27.9	470	844	7.6	20.5	425	713	22.1	5	-365	10.7	430	348	32.8	6.9	13.97	258	64	24.1	6.5	57	46	19.0	300	7.3	27	9	10.2	260
TOTAL	7745	7936	232.6	707.1	13588	15139	220	544.0	12315	13525	579.3	-685	-3934	362.4	11630	9591	941.7	####	484.97	7724	2283	699.1	####	1272	989	607.0	3800.0	217.5	919	506	342.7	3140.0
Week 1	235	218	7.5	17.2	392	365	7.1	13.9	358	332	14.6	24	-42	13.2	383	289	27.8	7.1	19.08	240	76	17.9	6.7	44	35	16.2	280.0	7.0	37	25	9.8	226.7
Week 2	258	274	7.5	20.5	447	588	7.0	16.7	405	516	17.5	-30	-173	16.5	375	344	34.1	7.0	15.54	251	70	20.6	6.6	40	30	18.1	286.7	7.0	35	21	10.7	240.0
Week 3	223	211	7.6	25.5	441	569	7.0	19.1	394	489	20.5	-23	-216	6.8	371	273	27.3	7.1	14.64	241	72	23.3	6.5	37	29	20.6	300.0	6.9	33	19	13.4	233.3
Week 4	251	287	7.6	26.2	458	447	7.1	19.5	413	413	20.9	-45	-83	12.4	368	329	33.4	7.3	14.17	255	77	27.6	6.6	38	30	22.9	300.0	7.1	34	16	15.8	260.0
Monthly	250	256	7.5	22.8	438	488	7.1	17.5	397	436	18.7	-22	-127	11.7	375	309	30.4	7.1	15.64	249	74	22.6	6.6	41	32	19.6	292.3	7.0	34	19	12.7	241.5
Min =	135	58	6.8	11	280	160	6.8	8	250	154	8.5	-164	-666	-1.9	185	72	17.9	6.6	12.55	160	51	12.0	6.2	19	13	10.3	280.0	6.6	21	5	7.2	200.0
Max =	440	510	8.3	39	600	1172	7.6	21	529	958	24.2	309	202	34.6	690	444	50.3	7.6	27.30	295	91	32.5	7.0	79	62	26.5	320.0	7.6	49	49	19.8	340.0
									%Removal						%Removal																	
									94.19	96.73	79.75				93.84	95.39	87.54															

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		Final Settling								Filtrate		
chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
145	6.9	24	13	11	1.7				7.4		1500	424.5
130	6.8	42	17	25	4.9				7.4	132.0	1200	188.0
120	6.6	32	13	25	2.7	200	6.7	0.430	7.3		1100	381.0
ns	6.8	31	13	23	1.2				7.5		1400	11.8
150	6.5	23	12	10	4.1	160			7.2		1000	242.0
ns	7.0	37	15	18	3.7				7.3	130.0	1400	272.0
165	7.0	31	16	20	3.2	220			7.3		1500	416.0
145	7.0	28	12	22	1.0				6.9		900	130.0
120	7.3	13	11	13	0.7				7.4	50.0	1000	66.0
150	7.4	29	15	17	2.9	200	10.0	0.504	7.4		1600	108.0
145	6.4	32	32	19	2.3				7.0		600	45.3
155	7.0	32	17	14	3.7	260			7.0		1500	243.0
145	7.1	30	13	15	5.7				7.0	100.0	1500	128.0
150	6.9	35	16	12	5.9	140			6.9		1500	259.0
ns	7.3	36	15	16	4.4				7.1		1100	224.0
140	6.9	26	28	14	3.0				6.8	100.0	1000	299.0
ns	6.9	31	12	19	4.5	140	3.6	0.684	7.1		600	191.5
150	6.9	33	14	17	4.8				7.1		1300	269.5
155	7.3	36	12	17	4.0	180			7.2		1200	215.0
160	6.8	30	14	17	7.5				7.1	100.0	1600	192.5
170	6.9	25	13	15	2.6	180			7.1		1100	219.0
170	6.9	31	12	13	2.4				7.2		900	69.0
150	7.1	29	13	19	3.7				7.2	100.0	1300	22.0
140	7.0	32	14	15	5.0	200			7.7		1600	214.4
160	6.9	32	12	17	6.3		8.0	0.586	7.1		1900	360.4
165	6.9	29	14	9	7.4	200			7.3		1000	206.0
150	6.7	30	13	19	8.1				7.2	62.0	1300	255.6
145	7.2	32	32	11	9.2	160			7.3		1200	189.5
145	6.6	32	11	5	7.2				6.9		1600	482.0
130	7.0	31	17	3	5.2				7.5	267.0	2000	583.0
130	6.9	22	16	8	1.5	240	12.0	0.466	7.5		0	ns
3980.0	214.7	936	477	478	130.4	2480.0	40.3	2.670	223.1	1041.0	38400.0	6907.0
142.0	6.8	31	14	19	3.0	193.3	6.7	0.430	7.3	131.0	1300.0	276.5
144.3	7.0	28	17	16	3.2	200.0	10.0	0.504	7.1	75.0	1228.6	139.9
155.0	7.0	31	15	16	4.4	166.7	3.6	0.684	7.1	100.0	1128.6	230.1
154.3	7.0	31	16	15	6.0	186.7	8.0	0.586	7.3	81.0	1314.3	188.1
147.4	6.9	30	15	15	4.2	190.8	8.1	0.534	7.2	115.7	1238.7	230.2
120.0	6.4	13	11	3	0.7	140.0	3.6	0.430	6.8	50.0	0.0	11.8
170.0	7.4	42	32	25	9.2	260.0	12.0	0.684	7.7	267.0	2000.0	583.0

Print Date: 6/15/2010

		May 2010																	
		Flow (MGD)												On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc		High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
1-May	10.930	1.979	0.563	3.090	########	14.020	16.210	5.570	6.990	3.350	40	50							
2-May	17.750	3.430	0.765	4.930	########	22.680	27.300	3.170	5.120	4.570	14	23							
3-May	21.700	3.401	0.949	5.600	########	27.300	27.300	4.770	3.340	6.450	17	12							
4-May	15.200	2.766	0.711	4.190	########	19.390	22.610	6.850	5.970	6.300	35	31							
5-May	12.840	2.435	0.664	3.920	########	16.760	21.380	6.830	6.880	7.020	41	41							
6-May	13.160	2.412	0.724	3.740	########	16.900	19.820	8.390	6.970	4.760	50	41							
7-May	13.060	2.213	0.590	3.430	########	16.490	17.930	9.190	7.400	2.320	56	45							
8-May	12.200	2.179	0.567	3.470	########	15.670	17.960	9.010	7.270	3.600	57	46							
9-May	11.660	2.235	0.610	3.540	########	15.200	17.460	8.610	7.160	7.080	57	47							
10-May	11.900	2.116	0.605	3.380	########	15.280	17.600	7.400	6.870	6.750	48	45							
11-May	13.300	2.340	0.672	3.720	########	17.020	20.390	7.170	7.310	8.200	42	43							
12-May	11.200	2.140	0.711	3.590	########	14.790	19.000	7.120	6.820	8.650	48	46							
13-May	11.700	2.257	0.646	3.360		15.060	17.090	7.580	6.930	8.170	50	46							
14-May	12.630	2.065	0.621	3.160		15.790	16.900	7.150	7.140	2.140	45	45							
15-May	11.150	1.986	0.510	3.210		14.360	16.050	7.990	6.940		56	48							
16-May	11.420	2.221	0.615	3.440		14.860	17.110	5.610	6.990		38	47							
17-May	11.500	2.050	0.663	3.190		14.690	17.720	6.740	5.840		46	40							
18-May	12.500	2.091	0.697	3.240		15.740	18.500	7.300	5.050		46	32							
19-May	10.400	2.082	0.622	3.070		13.470	16.880	6.740	5.130		50	38							
20-May	11.500	2.012	0.637	3.080		14.580	16.140	7.440	5.140		51	35							
21-May	11.890	1.937	0.606	2.860		14.750	15.360	6.730	5.960		46	40							
22-May	10.800	1.885	0.538	2.930		13.730	15.960	6.600	6.330		48	46							
23-May	11.500	2.192	0.647	3.190		14.690	17.460	6.420	6.460		44	44							
24-May	11.300	1.897	0.577	3.110		14.410	16.850	6.340	6.020		44	42							
25-May	11.850	2.030	0.733	3.260		15.110	18.380	6.380	6.050		42	40							
26-May	9.790	2.039	0.610	2.760		12.550	14.730	6.120	6.390		49	51							
27-May	11.460	2.041	0.690	3.030		14.490	16.520	6.730	6.330		46	44							
28-May	11.390	1.729	0.526	2.800		14.190	15.320	7.150	6.440		50	45							
29-May	10.700	1.938	0.534	2.970		13.670	15.620	6.860	6.200		50	45							
30-May	10.500	1.854	0.519	2.860		13.360	14.720	6.540	5.930		49	44							
31-May	10.900	2.100	0.645	3.070		13.970	16.490	7.230	6.430		52	46							
Total	379.780	68.052	19.767	105.190	########	484.970	554.190	213.730	195.800	79.360	1408	1290							
Week 1	14.949	2.662	0.709	4.129	########	19.077	21.140	6.396	6.096	4.967	36	35							
Week 2	12.084	2.190	0.633	3.460	########	15.544	18.057	7.720	7.071	6.370	50	46							
Week 3	11.480	2.054	0.621	3.156	#DIV/0!	14.636	16.823	6.936	5.864	#DIV/0!	47	40							
Week 4	11.156	1.973	0.617	3.011	#DIV/0!	14.167	16.460	6.534	6.289	#DIV/0!	46	45							
Monthly	12.251	2.195	0.638	3.393	########	15.644	17.877	6.895	6.316	5.669	45	42							
Min =	9.790	1.729	0.510	2.760	########	12.550	14.720	3.170	3.340	2.140	14	12							
Max =	21.700	3.430	0.949	5.600	########	27.300	27.300	9.190	7.400	8.650	57	51							

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	May 2010			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-May															
2-May															
3-May	6.6	1112	3500	6.8	289	4940	6.8	279	4280	7.6	423	400	7.5	150	4440
4-May															
5-May	7.0	23	4160	7.0	1864	2440	7.2	nr	4840	6.7	64	4640	6.6	1341	3000
6-May															
7-May	7.0		4240	6.9	736	4940	7.1	473	4480	6.6		600	6.7	477	4180
8-May															
9-May															
10-May	7.0	45	4620	6.9	886	4740	6.9	632	5240	6.7	109	4020	6.7	395	5000
11-May															
12-May	6.9		5320	6.7		3640	6.7		5200	6.6		2400	6.6		4860
13-May															
14-May	6.7	68	4200	6.7	836	3920	6.8	127	5280	6.5	64	3100	6.7	95	5000
15-May															
16-May															
17-May	7.0	191	4580	7.1	427	4500	7.5	109	5180	6.5	64	1480	6.7	91	4920
18-May															
19-May	7.1		4660	6.9			7.7		5260	6.7		5100	6.7		1760
20-May															
21-May	6.8	273	4300	6.9	82	4660	7.4	86	5000	6.7	45	2520	6.7	132	940
22-May															
23-May															
24-May	6.9	614	3600	7.0	141	4300	8.5	377	5060	6.5	159	1140	6.7	173	4780
25-May															
26-May	6.9		4920	6.9		4500	oos	oos	oos	6.7		4960	6.7		4980
27-May															
28-May	6.9	114	4800	6.9	77	4440	oos	oos	oos	6.8	277	5000	6.8	73	4860
29-May															
30-May															
31-May															
Total	82.9	2440	52900	82.5	5338	47020	72.5	2083	49820	80.6	1205	35360	80.9	2927	48720
Week 1	6.9	568	3967	6.9	963	4107	7.0	376	4533	7.0	244	1880	6.9	656	3873
Week 2	6.9	57	4713	6.8	861	4100	6.8	380	5240	6.6	87	3173	6.7	245	4953
Week 3	7.0	232	4513	7.0	255	4580	7.5	98	5147	6.6	55	3033	6.7	112	2540
Week 4	6.9	364	4440	6.9	109	4413	8.5	377	5060	6.7	218	3700	6.7	123	4873
Monthly	6.9	305	4408	6.9	593	4275	7.3	298	4982	6.7	151	2947	6.7	325	4060
Min =	6.6	23	3500	6.7	77	2440	6.7	86	4280	6.5	45	400	6.6	73	940
Max =	7.1	1112	5320	7.1	1864	4940	8.5	632	5280	7.6	423	5100	7.5	1341	5000

changed volatile acid method; change not working went back to old way 5/5

Print Date: 6/15/2010

Dissolved Oxygen -May 2010

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
5/1/2010	7.0	7.1	7.3	7.5	7.2	6.5	7.4		6.5
5/2/2010	6.5	6.6	6.8	6.8	6.7	6.2	6.8		6.2
5/3/2010	5.2	5.0	6.2	6.6	6.7	7.2	4.15*		5.0
5/4/2010	8.0	8.3	8.4	7.8	7.5	7.2	8.5		7.2
5/5/2010	7.5	8.1	7.9	7.5	7.2	6.8	8.4		6.8
5/6/2010	6.8	7.0	6.9	7.0	7.0	6.9	6.9		6.8
5/7/2010	6.9	7.2	7.2	7.4	6.9	6.8	8.5		6.8
5/8/2010	6.7	6.9	7.0	7.2	7.0	7.2	7.2		6.7
5/9/2010	7.2	7.9	8.1	8.3	8.3	7.9	8.3		7.2
5/10/2010	7.8	8.0	8.4	8.0	8.3	7.9	8.4		7.8
5/11/2010	7.8	7.8	8.2	8.2	8.2	7.6	7.8		7.6
5/12/2010	7.6	7.5	7.6	7.6	7.6	7.7	7.6		7.5
5/13/2010	7.6	7.6	8.1	7.6	7.2	7.1	8.1		7.1
5/14/2010	7.2	7.2	7.0	7.2	7.0	6.4	7.1		6.4
5/15/2010	6.5	6.6	6.7	6.7	6.7	6.5	6.8		6.5
5/16/2010	6.7	7.0	7.2	7.3	7.1	6.7	7.3		6.7
5/17/2010	6.7	6.8	7.3	7.4	7.1	7.2	6.9		6.7
5/18/2010	7.2	7.2	7.6	7.6	7.4	7.5	7.1		7.1
5/19/2010	7.6	7.4	7.8	7.8	7.7	7.4	7.5		7.4
5/20/2010	7.4	7.4	7.5	7.6	7.3	6.5	7.0		6.5
5/21/2010	6.7	6.8	6.6	7.1	7.2	6.5	6.6		6.5
5/22/2010	6.7	7.0	7.2	7.2	7.1	6.8	7.1		6.7
5/23/2010	6.9	6.9	7.1	7.2	7.2	6.9	7.1		6.9
5/24/2010	7.0	7.1	7.2	7.3	7.0	6.6	7.0		6.6
5/25/2010	6.7	6.8	6.6	6.8	6.9	6.4	6.6		6.4
5/26/2010	6.6	6.7	6.8	6.9	6.8	6.4	6.4		6.4
5/27/2010	6.6	6.6	6.5	6.6	6.6	6.3	6.4		6.3
5/28/2010	6.5	6.6	6.3	6.7	6.6	6.8	6.3		6.3
5/29/2010	6.8	6.9	7.1	7.3	7.2	6.8	6.9		6.8
5/30/2010	6.9	7.0	7.0	7.1	7.0	6.4	7.0		6.4
5/31/2010	6.6	6.9	6.8	7.0	6.8	6.5	6.8		6.5
Min	5.20	5.00	6.20	6.60	6.60	6.20	6.3	Min	5.00
Max	8.00	8.30	8.40	8.30	8.30	7.90	8.5	Max	7.80
								Avg	6.72

*Exceedence was due to meter error even with an acceptable calibration. Simultaneous readings were done with DEP during their inspection on May 3rd. DEP's result was a 5.97, City of Reading laboratory DO meter was 4.05 mg/L and operations meter result was 6.15 mg/L. Operations and DEP DO meters was the HQ40d. Laboratory was the YSI PRO20.

Laboratory DO meter membrane was changed directly after the reading and side by sides were done with the Operators DO meter. 5.9 and 6.20 respectively.

	May 2010 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-May	0.02	0.04	0.03	0.03	0.02	0.03	0.03	
2-May	0.01	0.05	0.03	0.03	0.02	0.02	0.03	
3-May	0.00	0.00	0.54	0.00	0.00	0.01	0.09	
4-May	0.01	0.02	0.02	0.03	0.01	0.00	0.02	
5-May	0.00	0.03	0.01	0.01	0.02	0.00	0.01	
6-May	0.00	0.03	0.03	0.00	0.00	0.01	0.01	
7-May	0.00	0.03	0.04	0.03	0.04	0.00	0.02	
8-May	0.01	0.02	0.04	0.02	0.03	0.00	0.02	
9-May	0.00	0.03	0.05	0.02	0.02	0.01	0.02	
10-May	0.00	0.02	0.04	0.02	0.02	0.01	0.02	
11-May	0.00	0.03	0.03	0.01	0.02	0.00	0.02	
12-May	0.01	0.02	0.02	0.01	0.00	0.03	0.02	
13-May	0.03	0.04	0.04	0.03	0.02	0.00	0.03	
14-May	0.00	0.01	0.03	0.01	0.02	0.01	0.01	
15-May	0.01	0.02	0.03	0.01	0.03	0.01	0.02	
16-May	0.02	0.04	0.04	0.00	0.03	0.01	0.02	
17-May	0.00	0.04	0.03	0.03	0.03	0.00	0.02	
18-May	0.02	0.03	0.06	0.00	0.02	0.03	0.03	
19-May	0.00	0.03	0.02	0.02	0.02	0.03	0.02	
20-May	0.01	0.03	0.04	0.02	0.04	0.03	0.03	
21-May	0.03	0.03	0.03	0.03	0.01	0.04	0.03	
22-May	0.04	0.03	0.04	0.03	0.03	0.00	0.03	
23-May	0.00	0.03	0.04	0.03	0.01	0.00	0.02	
24-May	0.01	0.04	0.02	0.04	0.02	0.02	0.03	
25-May	0.02	0.04	0.02	0.02	0.03	0.04	0.03	
26-May	0.02	0.01	0.02	0.03	0.04	0.01	0.02	
27-May	0.00	0.05	0.04	0.04	0.04	0.00	0.03	
28-May	0.01	0.04	0.03	0.03	0.04	0.05	0.03	
29-May	0.03	0.06	0.04	0.03	0.03	0.00	0.03	
30-May	0.00	0.05	0.05	0.04	0.03	0.05	0.04	
31-May	0.03	0.07	0.06	0.04	0.02	0.04	0.04	
Average	0.01	0.03	0.05	0.02	0.02	0.02	0.03	
Minimum	0.00	0.00	0.01	0.00	0.00	0.00		
Maximum	0.04	0.07	0.54	0.04	0.04	0.05		

Discharge Monitoring Report Supplemental Bio-Solids Report ***for the Month*** May 2010

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	**=** 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 18.30	X 0.01	= 0.00
0.00	X 18.30	X 0.01	= 0.00
0.00	X 18.30	X 0.01	= 0.00
1,154.59	X 18.30	X 0.01	= 211.29
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	**=** 211.29

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	211.29
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Wastewater Superintendent
Title

610-655-6258
Telephone

05/17/10
Date

City of Reading 3-C Watershed *for the Month* May 2010

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

RECEIVED
EPA REGION III
MAY 21 2010
WATER PROTECTION DIVISION
(3WP00)

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607

FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2010	TO	04/30/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	58	******		0	Daily	COMP24
00080 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.4	******	******		0	7/Daily	GRAB
00300 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.2	******	8.1		0	Daily	GRAB
00400 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1893	2131		******	13	14		0	Daily	COMP24
00530 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	584	******		******	4.0	******		0	Daily	COMP24
00610 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	17.7	21.76		******	******	******	******	0	Continuous	MEASRD
50050 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.02	******		0	2/Shift	GRAB
50060 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson WWTP Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		05/18/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2010	TO	04/30/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01026	******		******	<0.00007	******		0	Weekly	COMP24
71900 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	9	******		0	Daily	GRAB
74055 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1580	1913		******	11	14		0	Daily	COMP24
80082 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Ralph E. Johnson WWTP Superintendent	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Ralph E. Johnson	610-655-6258		05/18/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

	April 2010					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Apr	15.1	18	8	10	2.9	20.26	7.2	7.5	0.50		21	50	0.00	37	81
2-Apr	18.0	21	10	12	1.9	19.27	7.2	7.6	0.89		1	50	0.00	44	77
3-Apr	16.3	24	10	16	3.3	19.06	7.1	7.4	0.43		11	50	0.00	47	73
4-Apr	16.5	19	10	14	3.1	17.67	7.1	7.4	0.49		3	50	0.00	46	76
5-Apr	16.2	18	7	10	5.0	18.70	6.9	7.4	0.56		3	50	0.00	44	80
6-Apr	18.2	21	8	13	6.9	18.35	6.6	7.4	0.64		3	50	0.00	53	88
7-Apr	19.0	22	9	12	7.1	18.15	6.4	7.6	0.52		3	60	0.00	54	88
8-Apr	18.4	24	7	16	6.9	20.40	6.4	7.4	0.82		1	60	0.46	52	82
9-Apr	17.5	19	7	6	4.3	17.69	6.4	7.5	0.83		1	60	0.70	41	57
10-Apr	16.5	17	8	5	1.5	16.14	7.5	7.8	0.34		5	60	0.09	40	63
11-Apr	16.0	21	12	18	2.0	17.50	7.1	7.7	0.30		3	50	0.00	38	75
12-Apr	16.5	15	7	10	2.3	16.73	7.3	7.4	0.41		37	42	0.00	38	70
13-Apr	18.8	21	10	17	3.5	16.71	7.3	7.6	0.61		2	50	0.08	37	51
14-Apr	15.9	25	15	14	3.2	16.27	7.4	7.6	0.44		13	60	0.08	33	69
15-Apr	18.0	19	9	6	5.7	16.80	7.2	7.5	0.39		24	50	0.00	39	78
16-Apr	17.0	27	10	11	8.0	18.60	6.7	7.8	0.47		31	70	0.48	49	75
17-Apr	18.4	32	15	9	4.3	16.48	6.6	8.0	0.40		1	60	0.48	41	56
18-Apr	17.0	21	16	12	2.3	17.27	7.4	8.1	0.48		9	60	0.00	34	58
19-Apr	15.8	45	18	14	5.6	16.44	7.0	7.4	0.50		53	60	0.00	37	70
20-Apr	17.4	33	16	15	9.8	16.26	7.0	7.4	0.33		16	60	0.00	36	73
21-Apr	17.6	27	12	14	9.7	16.41	6.9	7.5	0.29		20	60	0.00	41	68
22-Apr	17.7	28	11	15	6.4	15.17	6.8	7.5	0.35		25	60	0.00	47	74
23-Apr	17.4	24	10	16	4.8	15.77	6.9	7.3	0.34		11	60	0.00	37	71
24-Apr	17.4	28	15	13	0.8	16.78	6.9	7.2	0.61		3	75	0.04	34	71
25-Apr	17.0	26	12	16	1.8	21.76	7.0	7.4	0.61		8	70	1.16	46	51
26-Apr	16.6	21	10	12	2.4	21.70	6.5	7.5	0.43		48	70	0.34	48	54
27-Apr	18.7	22	12	15	2.1	18.37	7.0	7.4	0.65		22	60	0.04	33	58
28-Apr	16.7	21	10	14	0.3	17.09	7.4	7.6	0.54		29	50	0.00	33	61
29-Apr	16.7	21	12	14	0.6	16.54	7.5	7.6	0.47		44	60	0.00	38	70
30-Apr	18.4	20	8	16	1.2	15.94	6.9	7.7	0.46		37	60	0.00	41	82
1-May	19.2	18	9	11	2.2	16.21	7.4	7.9	0.40		5	70			
						See DO profile									
TOTAL		718	333	396	121.9	546.5	217.0	233.8	15.50			1797	3.95		
Week 1	17.0	20	8	11	4.3	18.78	6.9	7.5	0.58		6	51	0.00	46	80
Week 2	17.1	20	11	12	3.4	17.35	7.1	7.6	0.54		9	55	0.20	40	67
Week 3	17.3	29	14	14	6.5	16.89	7.0	7.7	0.41		22	60	0.14	40	68
Week 4	17.4	24	10	14	2.6	18.09	6.9	7.4	0.50		21	64	0.23	40	63
Monthly	17.2	23	11	13	4.0	17.7	7.0	7.5	0.50		9	58	0.13	41	70
Only weekly highlighted averages have been adjusted as stated below.															
Min =	15.1	15	7	5	0.3	15.17	6.4	7.2	0.29		1	42	0.00	33	51
Max =	19.0	45	18	18	9.8	21.76	7.5	8.1	0.89		53	75	1.16	54	88
Weekly averages: 4/4-10, 4/11-17, 4/18 - 24, 4/25 - 5/1. 4/1 - 4/3 included in March weekly report.															
DISCHARGE LIMITATIONS															
Ave Monthly:			25	30	18		Min.	6.0			10,000	186			
Ave Weekly:			40	45			of	to							
Inst. Max:			50	60	24		5.0	9.0				465			

Print Date: 5/18/2010

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Apr	8,219	48,689	56,908	-11,934		44,974	3,041	1,352	5,552	24,576	30,129	-5,431	24,698	1,690	968	508	1,623	2131	248	151	2,378	488
2-Apr	5,117	47,188	52,304	-1,728		50,576	3,375	1,607	4,639	30,775	35,414	20,630	56,044	1,929	0	471	1,580	2,050	1,545		3,595	299
3-Apr	6,668	65,594	72,262	26,367		98,629	3,815	1,590	9,916	30,880	40,796	47,024	87,820	2,543	5,288	533	1,685	2,219	2,118	1,037	4,337	528
4-Apr	9,898	43,301	53,200	587	405	53,787	2,800	1,474	6,031	34,739	40,770	5,408	46,178	2,063	5,780	613	1,949	2,561	1,623	1,589	4,185	457
5-Apr	6,753	40,366	47,119	-1,608		45,511	2,807	1,092	5,996	39,155	45,150	12,944	58,094	1,560	8,890	550	1,766	2,316	3,386	2,130	5,702	775
6-Apr	5,044	43,034	48,078	-9,913		38,166	3,214	1,224	5,359	29,624	34,983	7,657	42,640	1,990	8,277	530	1,701	2,231	3,586	1,573	5,817	1,051
7-Apr	6,937	44,135	51,072	-9,265		41,807	3,330	1,362	7,590	29,904	37,494	3,707	41,201	1,816	7,730	585	1,594	2,179	3,262	1,195	5,441	1,081
8-Apr	6,240	44,452	50,693	288	318	50,981	4,083	1,191	7,900	29,707	37,607	50,193	87,800	2,722	5,680	548	1,811	2,358	3,391	1,704	5,749	1,179
9-Apr	6,055	51,491	57,546	6,072		63,618	2,803	1,033	5,086	25,220	30,306	49,826	80,132	885	1,718	612	2,102	2,713	305	642	3,018	627
10-Apr	6,124	42,034	48,157	7,125		55,282	2,288	1,077	4,593	35,495	40,088	67,650	107,738	673	4,018	612	1,943	2,555	1,462	1,280	4,017	199
11-Apr	7,548	48,163	55,712	1,672	403	57,383	3,065	1,751	6,550	25,719	32,270	44,752	77,021	2,627	4,101	646	1,927	2,572	1,457	884	4,030	288
12-Apr	6,443	48,489	54,932	-21,673		33,259	2,093	977	6,443	46,968	53,411	-35,540	17,870	1,395	5,954	615	1,806	2,422	2,815	1,510	5,237	324
13-Apr	6,886	45,647	52,533	5,954		58,487	2,927	1,394	9,525	33,723	43,248	10,852	54,100	2,369	1,442	605	1,882	2,487	1,436	343	3,923	491
14-Apr	9,866	44,019	53,885	7,049		60,934	3,392	2,035	7,696	25,988	33,684	16,418	50,101	1,900	2,850	637	1,761	2,398	1,913	747	4,310	437
15-Apr	3,817	36,129	39,946	-2,571	324	37,375	2,662	1,261	2,036	12,360	14,396	47,772	62,168	841	4,203	614	1,921	2,534	3,325	808	5,859	803
16-Apr	4,356		4,356	52,303		56,659	4,188	1,551	2,586		2,586	89,175	91,761	1,706	3,211	562		562	4,938	740	5,500	1,241
17-Apr	11,560	63,142	74,702	-223		74,480	4,398	2,062	6,128	37,320	43,448	19,066	62,514	1,237	3,313	632	1,979	2,611	2,102	1,259	4,713	591
18-Apr	13,077	73,209	86,286	9,399	485	95,685	3,025	2,305	5,838	37,745	43,583	33,959	77,542	1,728	5,054	680	1,949	2,629	1,844	1,543	4,474	337
19-Apr	11,079	64,854	75,933	-27,152		48,781	6,170	2,468	6,565	36,845	43,410	-13,559	29,851	1,920	10,789	599	1,786	2,385	6,643	2,475	9,028	768
20-Apr	7,496	63,876	71,372	-9,312		62,060	4,475	2,170	4,551	65,080	69,631	-15,687	53,944	2,034	12,260	629	1,907	2,536	6,128	2,325	8,664	1,330
21-Apr	6,498	59,392	65,889	-15,210		50,679	3,695	1,642	5,782	28,274	34,055	12,878	46,933	1,916	8,001	570	1,665	2,235	2,976	2,419	5,211	1,330
22-Apr	6,974	43,635	50,608	2,009	248	52,617	3,542	1,392	6,141	32,363	38,503	16,920	55,423	1,898	3,890	627	1,964	2,591	2,379	1,991	4,969	805
23-Apr	6,570	44,686	51,256	-3,117		48,138	3,157	1,315	8,920	42,784	51,705	7,987	59,692	2,104	3,304	675	2,386	3,061	1,416	588	4,477	637
24-Apr	5,990	39,231	45,221	8,634		53,856	3,918	2,099	5,517	40,446	45,963	-1,442	44,521	1,819	734	625	2,055	2,680	276	157	2,956	110
25-Apr	6,639	38,981	45,620	22,797	209	68,417	4,718	2,178	6,771	52,767	59,539	37,766	97,304	2,904	6,312	551	1,759	2,310	2,723	75	5,032	328
26-Apr	4,791	42,615	47,406	-20,925		26,481	3,801	1,810	4,025	30,867	34,892	-11,059	23,833	2,172	8,637	626	1,751	2,377	5,170	2,397	7,547	433
27-Apr	7,867	52,232	60,098	-9,000		51,098	3,371	1,838	8,239	29,086	37,325	4,602	41,927	2,298	4,871	598	1,710	2,308	771	1,366	3,079	322
28-Apr	7,197	45,341	52,538	3,026		55,564	2,993	1,425	5,586	23,293	28,879	25,528	54,407	1,995	5,617	545	1,627	2,172	1,741	1,779	3,913	36
29-Apr	8,297	62,750	71,047	-19,557	588	51,490	2,897	1,655	6,896	32,706	39,602	-22,276	17,326	1,931	6,192	563	1,702	2,265	1,383	1,405	3,648	77
30-Apr	5,974	50,123	56,098	-3,626		52,472	2,659	1,064	7,554	29,874	37,428	38,407	75,834	2,127	4,278	533	1,835	2,368	1,143	1,092	3,511	161
1-May	6,572	42,647	49,219	-285		48,934	2,433	1,217	8,659	62,973	71,632	-29,222	42,410	1,487	0	559	1,833	2,392	451	1,186	2,843	299
TOTAL	222,551	1,479,446	1,701,997	-13,817	2,980	1,688,180	105,137	48,610	194,670	1,037,253	1,231,924	536,905	1,768,828	58,280	153,363	18,254	54,956	73,210	73,956	38,388	147,166	17,829
Week 1	6,948	47,472	54,421	-1,070	405	53,350	3,198	1,208	6,441	31,379	37,819	13,134	50,954	1,673	5,276	541	1,700	2,241	2,253	1,279	4,494	668
Week 2	7,023	46,328	53,351	927	360	54,278	2,950	1,576	6,828	31,831	38,659	29,164	67,823	1,725	3,680	611	1,890	2,501	1,826	1,016	4,327	506
Week 3	8,269	60,100	59,784	1,033	405	60,817	4,088	1,913	4,784	36,270	35,873	24,801	60,673	1,917	6,690	612	1,868	2,213	3,994	1,653	6,207	914
Week 4	6,575	43,817	50,393	489	228	50,882	3,643	1,598	6,457	35,944	42,401	11,472	53,872	2,131	4,766	607	1,893	2,500	2,068	1,193	4,568	381
Monthly	7,199	49,545	55,093	-451	372	54,642	3,423	1,580	6,200	33,596	38,676	18,871	57,547	1,893	5,112	590	1,832	2,361	2,450	1,283	4,811	584
Min =	3817	36129	4356	-27152	209	26481	2093	977	2036	12360	2586	-35540	17326	673	0	471	1580	562	248	75	2378	36
Max =	13077	73209	86286	52303	588	98629	6170	2468	9916	65080	69631	89175	107738	2904	12260	680	2386	3061	6643	2475	9028	1330
								4,170						7,130								3,000
								6,255						10,696								

Print Date: 5/18/2010

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Apr								
2-Apr								
3-Apr								
4-Apr								
5-Apr								
6-Apr	< 0.00007	< 0.00221	0.00009	0.00901	0.00030	0.03948	< 0.00007	< 0.01071
7-Apr	0.00010	0.00311	0.00009	0.00811	0.00010	0.01212	< 0.00007	< 0.01060
8-Apr								
9-Apr								
10-Apr								
11-Apr								
12-Apr								
13-Apr	< 0.00007	< 0.00201	< 0.00007	< 0.00652	0.00010	0.01218	< 0.00007	< 0.00976
14-Apr								
15-Apr								
16-Apr								
17-Apr								
18-Apr								
19-Apr								
20-Apr	0.00010	0.00268	0.00007	0.00648	0.00040	0.04774	< 0.00007	< 0.00949
21-Apr								
22-Apr								
23-Apr								
24-Apr								
25-Apr								
26-Apr								
27-Apr	0.00010	0.00286	0.00010	0.01024	0.00040	0.05241	0.00007	0.01072
28-Apr								
29-Apr								
30-Apr								
1-May								
Total	0.00044	0.01286	0.00042	0.04036	0.00130	0.16393	0.00035	0.05128
Week 1	< 0.00009	< 0.00266	0.00009	0.00856	0.00020	0.02580	< 0.00007	< 0.01065
Week 2	< 0.00007	< 0.00201	< 0.00007	< 0.00652	0.00010	0.01218	< 0.00007	< 0.00976
Week 3	0.00010	0.00268	0.00007	0.00648	0.00040	0.04774	< 0.00007	< 0.00949
Week 4	0.00010	0.00286	0.00010	0.01024	0.00040	0.05241	< 0.00007	< 0.01072
Monthly	< 0.00009	< 0.00257	< 0.00008	< 0.00807	0.00026	0.03279	< 0.00007	< 0.01026
Min =	< 0.00007	< 0.00201	< 0.00007	< 0.00648	0.00010	0.01212	< 0.00007	< 0.00949
Max =	0.00010	< 0.00311	< 0.00010	< 0.01024	0.00040	0.05241	< 0.00007	< 0.01072
							0.00023	0.055
							0.00046	

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	April 2010				City of Reading Wastewater Treatment Plant															Laboratory Process Control Data										
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent				Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
1-Apr	225	152	7.6	13.9	420	212	7.4	14.0	373	198	14.0	-78	-36	1.6	295	162	15.6	7.0	18.28	248	49	14.3	6.8	50	23	12.2		6.9	30	12	9.4	
2-Apr	150	136	7.3	13.8	460	300	7.2	15.4	383	259	15.0	-13	151	11.3	370	410	26.3	7.0	16.39	192	74	15.6	6.6	46	36	12.6		6.9	34	33	8.1	
3-Apr	195	290	6.6	15.6	650	306	6.9	16.7	535	302	16.4	195	348	15.7	730	650	32.1	6.8	16.20	203	44	15.2	6.5	78	64	14.0		7.0	30	11	9.8	
4-Apr	302	184	7.2	18.7	440	353	7.1	19.8	406	311	19.5	4	41	12.4	410	352	31.9	6.9	15.73	235	67	18.7	6.7	62	54	16.7		7.1	36	20	11.8	
5-Apr	205	182	7.3	16.7	400	388	7.1	17.5	352	337	17.3	-12	97	25.3	340	434	42.6	7.2	16.05	242	125	21.1	6.7	54	41	18.4	220	7.3	32	11	12.8	220
6-Apr	160	170	7.6	16.8	430	296	7.3	17.0	365	266	17.0	-75	58	27.2	290	324	44.2	6.9	15.78	210	68	22.3	6.4	60	47	19.1		6.7	35	25	14.1	
7-Apr	223	244	7.8	18.8	490	332	7.4	17.7	421	309	18.0	-76	31	26.9	345	340	44.9	7.1	14.53	303	64	23.1	6.7	49	27	20.2	300	6.9	37	14	14.9	280
8-Apr	188	238	7.4	16.5	410	274	7.1	16.7	358	266	16.7	2	354	23.9	360	620	40.6	7.1	16.98	238	102	21.7	6.5	NS	NS	NS		6.9	34	26	14.6	
9-Apr	200	168	7.3	20.2	490	240	7.1	20.0	425	224	20.0	45	368	2.3	470	592	22.3	6.9	16.23	238	64	19.3	6.7	55	34	16.0	280	7.0	34	27	11.1	280
10-Apr	208	156	7.5	20.8	450	380	7.1	20.8	392	326	20.8	58	551	11.9	450	877	32.7	7.0	14.73	278	64	21.5	6.6	53	19	16.7		7.2	30	6	10.0	
11-Apr	242	210	7.5	20.7	500	267	7.6	20.0	437	253	20.2	13	351	11.4	450	604	31.6	7.1	15.29	202	52	17.7	6.8	49	41	15.8		6.9	30	16	9.7	
12-Apr	222	222	7.5	21.2	510	494	7.2	19.0	443	430	19.5	-175	-286	22.7	268	144	42.2	7.0	14.88	230	57	24.6	6.6	50	35	17.8	320	8.1	33	13	10.8	220
13-Apr	240	332	7.7	21.1	490	362	7.3	20.2	431	355	20.4	49	89	11.8	480	444	32.2	7.4	14.61	ns	NS	NS	6.8	64	42	19.4		6.9	38	13	13.2	
14-Apr	350	273	7.6	22.6	520	307	7.0	20.8	478	299	21.2	62	145	17.0	540	444	38.2	7.5	13.53	490	241	26.5	6.5	70	50	19.3	280	6.8	43	18	12.5	180
15-Apr	135	72	7.6	21.7	380	130	7.2	20.2	324	117	20.5	-21	387	27.0	303	504	47.5	7.0	14.79	245	73	29.1	6.7	52	30	23.0		7.0	31	5	15.8	
16-Apr	155	92	7.6	20.0	ns	ns	7.0	ns	32	19	4.1	378	645	35.7	410	664	39.8	7.1	16.57	NS	ns	ns	6.6	62	43	22.9	380	7.0	57	31	17.9	220
17-Apr	415	220	7.7	22.7	670	396	7.3	21.0	612	356	21.4	-2	156	17.2	610	512	38.6	7.3	14.64	388	94	23.4	6.8	94	35	17.5		7.0	64	11	11.4	
18-Apr	448	200	7.6	23.3	770	397	7.4	20.5	694	351	21.2	76	273	14.8	770	624	36.0	6.9	14.90	580	81	24.0	6.7	119	46	19.1		7.0	71	17	11.9	
19-Apr	405	240	7.8	21.9	690	392	7.7	19.0	626	358	19.7	-224	-112	54.7	402	246	74.4	7.3	14.55	398	54	29.1	6.4	76	21	24.2	300	7.6	65	21	15.5	220
20-Apr	280	170	7.7	23.5	690	703	7.1	20.6	598	583	21.3	-78	-131	51.3	520	452	72.6	7.2	14.31	342	75	33.7	6.4	79	51	28.1		6.8	70	34	20.4	
21-Apr	245	218	7.7	21.5	710	338	7.0	19.9	598	309	20.3	-138	117	27.0	460	426	47.3	7.3	13.21	298	61	30.3	6.6	54	25	25.8	300	7.1	58	24	19.4	220
22-Apr	268	236	7.5	24.1	480	356	6.8	21.6	433	329	22.2	17	145	20.3	450	474	42.5	7.4	14.02	245	61	27.3	6.9	NS	ns	ns		7.1	49	22	14.5	
23-Apr	260	353	7.4	26.7	470	450	7.1	25.1	426	430	25.4	-26	66	11.8	400	496	37.2	6.8	14.43	265	95	25.7	6.5	47	48	21.8	300	7.0	42	32	14.4	200
24-Apr	228	210	7.4	23.8	420	433	7.5	22.0	378	384	22.4	72	-12	2.3	450	372	24.7	7.0	14.35	248	70	22.1	6.6	65	67	17.1		7.1	44	25	8.8	
25-Apr	200	204	7.7	16.6	328	444	7.4	14.8	300	392	15.2	150	248	17.9	450	640	33.1	7.3	18.23	185	71	18.9	6.6	50	45	15.9		7.2	50	38	9.4	
26-Apr	150	126	7.4	19.6	370	268	7.2	15.2	322	237	16.2	-142	-75	35.1	180	162	51.3	6.6	17.64	208	62	20.0	6.5	22	13	14.8	300	6.7	32	13	9.0	220
27-Apr	275	288	7.5	20.9	510	284	7.2	16.7	459	285	17.6	-69	35	5.9	390	320	23.5	7.2	15.71	275	82	19.1	6.6	54	51	15.0		6.7	50	29	9.5	
28-Apr	268	208	7.7	20.3	510	262	7.2	18.3	454	249	18.8	26	221	15.0	480	470	33.8	7.1	13.88	283	75	18.5	6.7	48	33	13.5		7.3	38	22	5.7	200
29-Apr	308	256	7.6	20.9	660	344	7.2	17.9	582	325	18.6	-160	-183	11.3	422	142	29.9	7.0	14.63	345	74	20.3	6.6	54	41	14.9		7.1	48	35	7.3	
30-Apr	242	306	7.7	21.6	500	298	7.1	18.3	449	300	19.0	-29	307	9.1	420	607	28.1	7.0	14.98	288	112	21.3	6.5	53	59	16.2	280	7.0	37	34	8.3	220
1-May	255	336	7.6	21.7	470	694	7.2	20.2	422	615	20.5	-2	-251	3.9	420	364	24.4	7.0	13.97	260	72	22.2	6.7	44	27	19.2		6.9	36	16	9.7	
TOTAL	7647	6692	233.0	628.2	15288	10700	223	566.9	13507	9772	580.1	-172	4100	582.0	13335	13872	1162.1	####	474.02	8162	2283	646.6	####	1713	1148	527.2	3260	218.0	1318	654	371.7	2680
Week 1	209	194	7.3	16.3	470	312	7.2	16.9	405	283	16.7	-8	99	17.2	397	382	33.9	7.0	16.14	233	70	18.6	6.6	57	42	16.2	260	7.0	33	18	11.6	250
Week 2	236	228	7.5	20.4	481	332	7.2	19.6	423	308	19.8	8	225	14.4	431	532	34.3	7.1	15.18	279	97	21.9	6.6	57	37	17.5	293	7.1	35	17	11.7	227
Week 3	298	173	7.7	22.1	652	393	7.2	20.2	498	299	18.3	-1	191	32.6	496	490	50.9	7.1	14.71	375	73	28.3	6.6	77	36	22.9	327	7.1	59	20	16.0	220
Week 4	236	232	7.5	21.7	441	357	7.2	19.1	396	329	19.7	4	90	15.5	400	419	35.2	7.1	15.47	244	74	21.7	6.6	48	43	16.4	300	7.0	44	26	10.2	207
Monthly	246	212	7.5	20.2	511	345	7.2	18.9	436	305	18.7	-6	145	19.3	431	450	37.9	7.1	15.34	282	79	22.3	6.6	60	40	18.1	296	7.0	43	21	12.1	223
Min =	135	72	6.6	13.8	328	130	6.8	14.0	32	19	4.1	-224	-286	1.6	180	142	15.6	6.6	13.2	185	44	14.3	6.4	22	13	12.2	220	6.7	30	5	5.7	180
Max =	448	353	7.8	26.7	770	703	7.7	25.1	694	583	25.4	378	645	54.7	770	877	74.4	7.5	18.3	580	241	33.7	6.9	119	67	28.1	380	8.1	71	38	20.4	280
									%Removal						%Removal																	
									95	96	78.62				95	97	89.48															

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		Final Settling								Filtrate		
chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
160	6.9	27	9	6	3.0				7.2		900	140.0
120	7.0	12	9	5	1.9				7.2			
125	6.9	15	11	11	3.3				7.1		1700	333.5
135	6.9	28	12	15	3.1				7.1	98	1400	385.0
135	6.9	30	12	9	4.9	220	7.8	0.772	7.4		1300	311.5
145	6.6	32	12	13	7.4				6.8		1200	228.0
145	6.7	23	11	9	7.2	220			7.3		1300	201.0
155	6.9	12	10	13	7.1				6.8	56	1000	300.0
170	7.0	25	10	7	4.2	180			7.2		1000	373.5
145	7.2	20	10	14	1.6				7.2		1100	350.5
130	7.0	24	13	12	1.9				7.3	108	1100	237.0
165	6.9	22	10	11	2.1	180	7.4	0.678	7.7		1100	279.0
170	7.3	27	13	13	4.0				7.1		1300	309.0
170	6.9	36	16	11	3.8	220			6.8		1700	445.5
170	7.0	26	13	4	6.8				7.2	108	1400	269.0
155	7.1	30	12	11	9.3	280			7.1		1400	322.5
135	7.1	44	19	8	4.8				7.3		1200	456.0
140	7.1	45	22	11	3.0				7.3	144	1500	458.0
135	7.1	45	18	7	5.9	200	7.0	0.756	7.7		1700	390.0
165	7.0	45	18	15	11.0				6.9		1400	265.5
190	6.9	30	15	9	11.2	210			7.1		1300	393.0
190	7.0	26	11	18	6.8				7.0	70	1100	563.0
185	6.9	25	10	16	5.9	200			7.2		1400	249.0
170	7.2	25	13	19	2.1				7.1		1100	236.0
125	7.2	26	12	17	3.3				7.2	53	1600	18.9
140	6.3	22	10	10	3.5	220	8.9	6.980	6.7		1200	333.0
150	6.9	30	15	19	3.4				6.9		1100	308.5
160	7.3	22	12	13	0.4	160			7.3		1500	475.0
180	7.0	32	17	23	0.6				6.9	152	1600	363.0
165	7.1	26	14	23	1.1	180			7.3		1500	383.0
145	6.9	24	13	11	1.7				7.4			424.5
4770	216.2	856	402	383	136.1	2470	31.1	9.186	221.5	789	38100.0	9801.4
138	6.9	24	11	10	4.4	220	7.8	0.772	7.1	98	1300.0	266.5
158	7.0	24	12	12	3.5	193	7.4	0.678	7.2	82	1185.7	327.8
156	7.0	38	17	9	7.4	230	7.0	0.756	7.2	126	1414.3	364.9
160	7.0	25	12	16	3.6	193	8.9	6.980	7.1	62	1285.7	311.9
154	7.0	28	13	12	4.5	206	7.8	2.297	7.1	99	1314	323.3
120	6.3	12	9	4	0.4	160	7.0	0.7	6.7	53.0	900.0	18.9
190	7.3	45	22	23	11.2	280	8.9	7.0	7.7	152.0	1700.0	563.0

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		April 2010																
		Flow (MGD)											On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
1-Apr	13.900	2.825	0.651	4.380	OOS	18.280	20.260	6.640	7.520	0.129	36	41						
2-Apr	12.300	2.435	0.573	4.090	OOS	16.390	19.270	7.160	7.720	0.356	44	47						
3-Apr	12.100	2.645	0.563	4.100	OOS	16.200	19.060	6.770	7.460	0.373	42	46						
4-Apr	11.800	2.528	0.559	3.930	OOS	15.730	17.670	7.920	7.390	0.495	50	47						
5-Apr	12.100	2.352	0.665	3.950	OOS	16.050	18.700	7.610	7.580	0.820	47	47						
6-Apr	12.000	2.563	0.673	3.780	OOS	15.780	18.350	7.740	7.520	0.827	49	48						
7-Apr	10.800	2.303	0.715	3.730	OOS	14.530	18.150	7.720	7.500	0.713	53	52						
8-Apr	13.000	2.548	0.675	3.980	OOS	16.980	20.400	7.760	8.050	0.681	46	47						
9-Apr	12.600	2.264	0.608	3.630	OOS	16.230	17.690	7.690	8.050	0.206	47	50						
10-Apr	11.200	2.024	0.553	3.530	OOS	14.730	16.140	7.670	6.850	0.438	52	47						
11-Apr	11.550	2.306	0.587	3.740	OOS	15.290	17.500	8.070	7.480	0.447	53	49						
12-Apr	11.400	2.279	0.742	3.480	OOS	14.880	16.730	7.830	7.510	0.649	53	50						
13-Apr	11.170	2.247	0.649	3.440	OOS	14.610	16.710	7.450	7.370	0.133	51	50						
14-Apr	10.150	2.144	0.676	3.380	OOS	13.530	16.270	7.520	7.410	0.201	56	55						
15-Apr	11.400	1.999	0.639	3.390	OOS	14.790	16.800	7.600	7.550	0.360	51	51						
16-Apr	13.200	2.213	0.627	3.370	OOS	16.570	18.600	7.850	7.670	0.275	47	46						
17-Apr	11.300	2.110	0.558	3.340	OOS	14.640	16.480	7.750	7.470	0.331	53	51						
18-Apr	11.400	2.263	0.658	3.500	OOS	14.900	17.270	7.630	7.360	0.404	51	49						
19-Apr	11.270	2.061	0.665	3.280	OOS	14.550	16.440	7.860	7.390	0.761	54	51						
20-Apr	11.100	2.009	0.639	3.210	OOS	14.310	16.260	7.910	7.400	1.050	55	52						
21-Apr	10.030	2.023	0.674	3.180	OOS	13.210	16.410	7.280	6.970	0.738	55	53						
22-Apr	10.900	2.012	0.697	3.120	OOS	14.020	15.170	7.790	7.150	0.424	56	51						
23-Apr	11.400	1.893	0.621	3.030	OOS	14.430	15.770	7.460	6.700	0.283	52	46						
24-Apr	11.200	2.009	0.562	3.150	OOS	14.350	16.780	7.710	7.180	0.080	54	50						
25-Apr	14.250	2.443	0.705	3.980	OOS	18.230	21.760	8.490	6.130	0.473	47	34						
26-Apr	13.810	2.350	0.721	3.830	OOS	17.640	21.700	7.510	7.570	0.863	43	43						
27-Apr	12.280	2.055	0.687	3.430	OOS	15.710	18.370	7.060	7.270	0.531	45	46						
28-Apr	10.660	2.083	0.682	3.220	OOS	13.880	17.090	7.560	7.540	0.449	54	54						
29-Apr	11.400	1.905	0.634	3.230	OOS	14.630	16.540	7.340	7.100	0.464	50	49						
30-Apr	12.020	1.877	0.600	2.960	OOS	14.980	15.940	7.770	7.000	0.342	52	47						
1-May	10.880	1.979	0.563	3.090	OOS	13.970	16.210	5.840	7.380	0.335	42	53						
Total	364.570	68.747	19.821	109.450		474.020	546.490	233.960	228.240	14.631	1540	1502						
Week 1	12.143	2.522	0.628	3.994		16.137	18.780	7.366	7.527	0.530	46	47						
Week 2	11.581	2.259	0.641	3.597		15.179	17.349	7.713	7.531	0.394	51	50						
Week 3	11.386	2.097	0.637	3.324		14.710	16.894	7.697	7.401	0.560	52	50						
Week 4	12.071	2.121	0.668	3.394		15.466	18.091	7.654	7.077	0.443	50	46						
Monthly	11.790	2.226	0.642	3.545		15.335	17.676	7.604	7.362	0.477	50	48						
Min =	10.030	1.877	0.553	2.960	0.000	13.210	15.170	6.640	6.130	0.080	36	34						
Max =	14.250	2.825	0.742	4.380	0.000	18.280	21.760	8.490	8.050	1.050	56	55						

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	April 2010			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Apr															
2-Apr	ns		ns	ns		ns	ns		ns	oos		oos	ns		ns
3-Apr															
4-Apr															
5-Apr	7.0	410	3260	7.2	183	4400	7.2	63	4600	oos	oos	oos	7.6	20	900
6-Apr															
7-Apr	7.1		3820	7.1		3520	7.3		4500	oos	oos	oos	7.6		4180
8-Apr															
9-Apr	7.1	33	4020	7.1	270	4280	7.3	50	4440	oos	oos	oos	7.6	63	4260
10-Apr															
11-Apr															
12-Apr	7.0	25	3960	7.1	40	4520	7.1	175	4620	7.3	35	220	7.7	40	4300
13-Apr															
14-Apr	7.0		3840	7.2		4080	7.2		4280	oos	oos	oos	7.6		4380
15-Apr															
16-Apr	7.3	48	4400	7.2	285	4340	7.2	238	4780	oos	oos	oos	7.6	825	4500
17-Apr															
18-Apr															
19-Apr	6.9	600	2880	7.1	55	4680	7.2	75	4800	oos	oos	oos	7.7	48	2640
20-Apr															
21-Apr	7.3		4440	7.3		4520	7.2		4700	oos	oos	oos	7.6		4800
22-Apr															
23-Apr	7.1	35	4400	6.9		840	7.3	68	4800	7.8	368	1660	7.7	43	4600
24-Apr															
25-Apr															
26-Apr	7.0	208	4060	7.1	73	4920	7.2	78	4400	oos	oos	oos	7.5	45	4700
27-Apr															
28-Apr	7.1		4100	7.2		3420	7.2		5080	oos	oos	oos	7.6		620
29-Apr															
30-Apr	7.2	803	3540	7.4	408	4280	7.4	788	4800	7.9	888	840	7.6	413	4120
1-May															
Total	84.9	2161	46720	85.7	1313	47800	86.6	1533.5	55800	23.0	1291	2720	91.3	1496	44000
Week 1	7.1	410	3540	7.1	183	3960	7.2	63	4550	#DIV/0!	#DIV/0!	#DIV/0!	7.6	20	2540
Week 2	7.0	29	3940	7.1	155	4293	7.2	113	4447	7.3	35	220	7.6	52	4313
Week 3	7.1	324	3907	7.2	170	4513	7.2	157	4760	#DIV/0!	#DIV/0!	#DIV/0!	7.6	437	3980
Week 4	7.0	121	4187	7.1	73	3060	7.2	73	4760	7.8	368	1660	7.6	44	3307
Monthly	7.1	270	3893	7.1	188	3983	7.2	192	4650	7.7	430	907	7.6	187	3667
Min =	6.9	25	2880	6.9	40	840	7.1	50	4280	7.3	35	220	7.5	20	620
Max =	7.3	803	4440	7.4	408	4920	7.4	788	5080	7.9	888	1660	7.7	825	4800

Print Date: 5/18/2010

Dissolved Oxygen - April 2010

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
4/1/2010	7.4	7.6	8.1	7.6	7.2	7.2	8.1		7.2
4/2/2010	7.2	7.4	7.5	7.6	7.8	7.2	7.8		7.2
4/3/2010	7.1	7.4	7.6	7.4	7.4	7.2	7.8		7.1
4/4/2010	7.2	7.5	7.6	7.7	7.7	7.1	7.8		7.1
4/5/2010	7.2	7.5	7.5	7.6	7.2	6.9	7.4		6.9
4/6/2010	7.1	7.0	7.0	7.0	7.0	6.6	7.3		6.6
4/7/2010	6.8	6.8	6.8	7.0	6.9	6.4	7.0		6.4
4/8/2010	6.6	6.7	6.6	6.9	6.8	6.4	7.0		6.4
4/9/2010	6.4	6.5	6.8	7.2	7.1	7.3	6.6		6.4
4/10/2010	7.6	7.7	8.1	8.2	8.1	7.5	8.3		7.5
4/11/2010	7.6	7.6	8.0	7.8	7.5	7.1	8.3		7.1
4/12/2010	7.4	7.3	7.8	7.8	7.8	7.3	7.6		7.3
4/13/2010	7.4	7.5	7.8	7.8	7.5	7.3	7.6		7.3
4/14/2010	7.5	7.4	7.6	7.7	7.7	7.4	7.6		7.4
4/15/2010	7.5	7.2	7.5	7.6	7.2	7.2	7.3		7.2
4/16/2010	7.2	7.0	7.0	7.5	7.0	6.7	7.0		6.7
4/17/2010	6.6	6.8	6.9	7.0	7.2	7.5	7.4		6.6
4/18/2010	7.6	7.6	8.1	7.8	7.7	7.4	8.2		7.4
4/19/2010	7.4	7.3	7.7	7.4	7.2	7.0	7.5		7.0
4/20/2010	7.4	7.1	7.1	7.6	7.2	7.0	7.1		7.0
4/21/2010	7.0	7.0	6.9	7.3	7.2	7.0	7.0		6.9
4/22/2010	7.0	6.9	7.0	7.2	7.0	6.8	7.0		6.8
4/23/2010	7.0	7.0	6.9	7.1	7.1	6.9	6.9		6.9
4/24/2010	7.0	6.9	6.9	7.4	7.2	6.9	7.2		6.9
4/25/2010	7.0	7.1	7.7	7.1	7.2	7.0	7.7		7.0
4/26/2010	6.6	6.6	6.7	7.2	7.0	6.9	6.5		6.5
4/27/2010	7.0	7.2	7.5	7.7	7.2	7.2	7.2		7.0
4/28/2010	7.5	7.4	8.2	8.6	8.7	8.5	7.4		7.4
4/29/2010	8.3	8.3	8.9	8.6	8.0	7.5	8.4		7.5
4/30/2010	7.5	7.6	8.1	8.2	7.6	6.9	8.0		6.9
Min	6.40	6.50	6.60	6.90	6.80	6.40	6.5	Min	6.40
Max	8.30	8.30	8.90	8.60	8.70	8.50	8.4	Max	7.50
								Avg	6.99

	April 2010 Total Residual Chlorine						Daily Average	Extra Analysis
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM		
1-Apr	0.00	0.02	0.02	0.03	0.02	0.04	0.02	
2-Apr	0.01	0.02	0.02	0.01	0.01	0.01	0.01	
3-Apr	0.00	0.02	0.01	0.03	0.00	0.02	0.01	
4-Apr	0.02	0.03	0.02	0.02	0.03	0.03	0.03	
5-Apr	0.02	0.03	0.02	0.02	0.02	0.00	0.02	
6-Apr	0.02	0.03	0.04	0.01	0.03	0.04	0.03	
7-Apr	0.03	0.03	0.04	0.03	0.02	0.02	0.03	
8-Apr	0.02	0.03	0.02	0.02	0.01	0.03	0.02	
9-Apr	0.04	0.03	0.04	0.01	0.01	0.01	0.02	
10-Apr	0.03	0.04	0.02	0.02	0.01	0.02	0.02	
11-Apr	0.00	0.03	0.03	0.03	0.02	0.02	0.02	
12-Apr	0.02	0.03	0.03	0.03	0.01	0.02	0.02	
13-Apr	0.02	0.03	0.03	0.03	0.01	0.02	0.02	
14-Apr	0.01	0.03	0.02	0.02	0.01	0.02	0.02	
15-Apr	0.03	0.03	0.03	0.02	0.02	0.00	0.02	
16-Apr	0.03	0.03	0.02	0.02	0.01	0.01	0.02	
17-Apr	0.02	0.01	0.03	0.01	0.01	0.01	0.02	
18-Apr	0.01	0.02	0.03	0.01	0.01	0.01	0.02	
19-Apr	0.01	0.03	0.02	0.02	0.02	0.03	0.02	
20-Apr	0.01	0.03	0.03	0.02	0.01	0.01	0.02	
21-Apr	0.00	0.03	0.04	0.03	0.02	0.04	0.03	
22-Apr	0.00	0.03	0.04	0.02	0.02	0.00	0.02	
23-Apr	0.04	0.02	0.01	0.01	0.01	0.01	0.02	
24-Apr	0.04	0.05	0.03	0.00	0.01	0.02	0.03	
25-Apr	0.03	0.03	0.05	0.02	0.03	0.01	0.03	
26-Apr	0.00	0.00	0.01	0.01	0.01	0.00	0.01	
27-Apr	0.02	0.03	0.06	0.01	0.02	0.01	0.03	
28-Apr	0.02	0.04	0.04	0.03	0.04	0.00	0.03	
29-Apr	0.01	0.03	0.02	0.03	0.03	0.04	0.03	
30-Apr	0.02	0.04	0.03	0.03	0.04	0.02	0.03	
Average	0.02	0.03	0.03	0.02	0.02	0.02	0.02	
Minimum	0.00	0.00	0.01	0.00	0.00	0.00		
Maximum	0.04	0.05	0.06	0.03	0.04	0.04		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* April 2010

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	**=** 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 18.45	X 0.01	= 0.00
0.00	X 18.45	X 0.01	= 0.00
0.00	X 18.45	X 0.01	= 0.00
1,098.28	X 18.45	X 0.01	= 202.63
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	**=** 202.63

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	202.63
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Ralph E. Johnson
Signature

Wastewater Superintendent
Title

610-655-6258
Telephone

05/18/10
Date

City of Reading 3-C Watershed *for the Month* April 2010

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

RECEIVED
EPA REGION III
APR 30 2010
WATER PROTECTION DIVISION
(3WP00)

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: Sunbury Municipal Authority
ADDRESS: 462 South Fourth Street
Sunbury, PA 17801

FACILITY: SUNBURY CITY MUN AUTH WWTP
LOCATION: 485 FAWN LANE
SUNBURY, PA 17801

ATTN: D. Michael Brockman/ Manager

PA0026557	001-A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 17801
MAJOR $
(SUBR 04)
001 OUTFALL
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2010	TO	03/31/2010

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******	6.7	******	7.3		0	daily	grab
00400 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	139	228		******	6	9		0	2/7	24HC
00530 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	1051 MO AVG	1576 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Twice Every Week	COMP24
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	8.13	******		0	monthly	Calc.
00600 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	******	mg/L		Monthly	CALCTD
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	******	******	******	******	1.46	******		0	weekly	24HC
00610 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	******	mg/L		Weekly	COMP24
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	4.98	******		0	weekly	24HC
00625 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	******	mg/L		Weekly	COMP24
Nitrite plus nitrate total 1 det. (as N)	SAMPLE MEASUREMENT	******	******	******	******	3.14	******		0	weekly	24HC
00630 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	******	mg/L		Weekly	COMP24
Phosphorus, total (as P)	SAMPLE MEASUREMENT	******	******	******	******	.20	******		0	weekly	24HC
00665 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	******	mg/L		Weekly	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Danny Ramer General Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	570	988-1830	04/26/2010
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Total Residual Chlorine is to be monitored when utilizing the back-up chlorine disinfection.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: Sunbury Municipal Authority
ADDRESS: 462 South Fourth Street
Sunbury, PA 17801
FACILITY: SUNBURY CITY MUN AUTH WWTP
LOCATION: 485 FAWN LANE
SUNBURY, PA 17801

ATTN: D. Michael Brockman/ Manager

PA0026557	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		**MM/DD/YYYY**
FROM	03/01/2010	**TO**	03/31/2010

DMR Mailing ZIP CODE: 17801
MAJOR $
(SUBR 04)
001 OUTFALL
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	3.018	6.523		******	******	******	******	0	Cont	meter
50050 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	METER
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	NA	NA			NA	NA
50060 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	.5 MO AVG	1.6 INST MAX	mg/L		Daily When Discharging	GRAB
Ultraviolet light transmittance	SAMPLE MEASUREMENT	******	******	******	75%	******	******		0	Daily	meter
51043 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	******	%		Daily	METER
Nitrogen, Total	SAMPLE MEASUREMENT	6107	******		******	******	******	******	0	Monthly	Calc
51445 2 0 Effluent Net	PERMIT REQUIREMENT	Req. Mon. MO TOTAL	******	lb	******	******	******	******		Monthly	CALCTD
Nitrogen, Total	SAMPLE MEASUREMENT	6107	******		******	******	******	******	0	Monthly	Calc
51445 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO TOTAL	******	lb	******	******	******	******		Monthly	CALCTD
Nitrogen, Ammonia Total	SAMPLE MEASUREMENT	1076	******		******	******	******	******	0	Monthly	Calc
51446 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO TOTAL	******	lb	******	******	******	******		Monthly	CALCTD
Nitrogen, Kjeldahl Total	SAMPLE MEASUREMENT	3901	******		******	******	******	******	0	Monthly	Calc
51449 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO TOTAL	******	lb	******	******	******	******		Monthly	CALCTD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Danny Ramer General Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	570 [illegible]-1330		04/26/2010
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Total Residual Chlorine is to be monitored when utilizing the back-up chlorine disinfection.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: Sunbury Municipal Authority
ADDRESS: 462 South Fourth Street
Sunbury, PA 17801
FACILITY: SUNBURY CITY MUN AUTH WWTP
LOCATION: 485 FAWN LANE
SUNBURY, PA 17801

ATTN: D. Michael Brockman/ Manager

PA0026557	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		**MM/DD/YYYY**
FROM	03/01/2010	**TO**	03/31/2010

DMR Mailing ZIP CODE: 17801
MAJOR $
(SUBR 04)
001 OUTFALL
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrite Plus Nitrate Total	SAMPLE MEASUREMENT	2199	******		******	******	******	******	0	monthly	Calc
51450 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO TOTAL	******	lb	******	******	******	******		Monthly	CALCTD
Phosphorus, Total	SAMPLE MEASUREMENT	152	******		******	******	******	******	0	monthly	Calc
51451 2 0 Effluent Net	PERMIT REQUIREMENT	Req. Mon. MO TOTAL	******	lb	******	******	******	******		Monthly	CALCTD
Phosphorus, Total	SAMPLE MEASUREMENT	152	******		******	******	******	******	0	monthly	Calc
51451 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO TOTAL	******	lb	******	******	******	******		Monthly	CALCTD
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	9	******		0	2/7	grab
74055 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	2000 MO GEOMN	******	#/100mL		Twice Every Week	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	60	78		******	2	3		0	2/7	24HC
80082 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	876 MO AVG	1401 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Twice Every Week	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Danny Ramer General Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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	D. Michael Brockmore	570 988 1930		04/26/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Total Residual Chlorine is to be monitored when utilizing the back-up chlorine disinfection.

Discharge Monitoring Report Supplemental Form (S)
Sunbury Municipal Authority
Sunbury Municipal Authority, Northumberland County
Watershed 6B

For the Month: March-10
NPDES Permit No. **PA0026557**
Renewal application **DUE DATE** is 7/31/2012
This permit will **EXPIRE** on 1/31/2013

	Influent			Process Control		Hauled In Wastes					
	BOD_5	BOD_5	TSS	Sludge Wasted	Aeration MLSS	Septage		Sludge		Other (specify):	
DAY	mg/L	lbs	mg/L	gallons	mg/L	gallons	lbs BOD5	gallons	lbs BOD5	gallons	lbs BOD5
1	181	4256.9	135	70432	3840						
2	228	5495.4	147	70402							
3	246	6196.0	133	70371							
4	195	4716.3	130	70175							
5	251	5777.6	104	72985	3887						
6	74	1579.9	64	45281							
7	135	2781.0	70	0							
8	356	8194.6	185	74355	3626						
9	168	3684.9	95	71423							
10	254	5444.2	120	31478							
11	195	4114.5	120	70962	3933						
12				64830							
13	149	4560.6	285								
14	71	2262.0	73	71211	4129						
15	206	5824.2	80	70374							
16	254	7223.6	182	70741							
17	242	6377.8	170	70541							
18	355	9563.1	200	89600	4231						
19	224	5249.5	160	23355							
20	77	1605.5	80	66568	4578						
21	89	1848.2	27	56789							
22	150	5179.1	127	70411							
23	243	5938.0	167	70363	4298						
24	255	6018.6	100	70612							
25	117	3727.5	94	68373	4444						
26	180	4308.4	92	70415							
27	59	1299.0		70292	3640						
28	71	2374.5	110	70569							
29	230	6924.7	75	0							
30	174	6254.5	60	78643	4049						
31	206	5892.9	107								
AVG	188	4822	120	62122	4060						

Date: 04/26/2010

Signature: [signature]

Telephone: (570) 988-1930

Discharge Monitoring Report Supplemental Form (S)
Sunbury Municipal Authority
City of Sunbury, Northumberland County
Watershed 6B

For the Month: March-10
NPDES Permit No. **PA0026557** **Outfall No. 001**
Renewal application **DUE DATE** is 7/31/2012
This permit will **EXPIRE** on 1/31/2013

		Effluent									
	Flow	Total P	Total P	NH_3-N	NH_3-N	TKN	TKN	$NO_3 + NO_2$ as N	$NO_3 + NO_2$ as N	Total N (mg/L)	Total N (lbs/day)
DAY	(MGD)	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	$TKN+NO_2+NO_3$	$TKN+NO_2+NO_3$
1	2.676										
2	2.707	0.14	3.16	1.68	37.93	4.48	101.14	1.89	42.67	6.37	143.81
3	2.900										
4	2.718										
5	2.602										
6	2.414										
7	2.365										
8	2.521										
9	2.449	0.18	3.68	1.40	28.59	3.92	80.06	9.72	198.53	13.64	278.59
10	2.435										
11	2.351										
12	3.525										
13	3.607										
14	3.610										
15	3.274										
16	3.140	0.50	13.09	1.68	44.00	4.76	124.65	1.12	29.33	5.88	153.98
17	2.894										
18	2.964										
19	2.483										
20	2.235										
21	2.283										
22	3.984										
23	2.671	0.07	1.56	1.96	43.66	6.72	149.70	1.52	33.86	8.24	183.56
24	2.502										
25	3.624										
26	2.637										
27	2.362										
28	3.838										
29	3.523										
30	4.132	0.09	3.10	0.56	19.30	5.04	173.68	1.46	50.31	6.50	224.00
31	3.140										
AVG	2.921	0.20	4.92	1.46	34.70	4.98	125.85	3.14	70.94	8.13	196.79
* Total lbs/mo	XXX	XXX	152	XXX	XXX	XXX	3901	XXX	2199	XXX	6100

* Calculated by Avg (lbs / day) X total number of days in month
Number of days Discharge Occurred = 31

Signature: [signature] Date: 04/26/2010

Discharge Monitoring Report Supplemental Form (S)
Sunbury Municipal Authority
City of Sunbury, Northumberland County
Watershed 6B

For the Month: March-10
NPDES Permit No. **PA0026557** **Outfall No. 001**
Renewal application **DUE DATE** is 7/31/2012
This permit will **EXPIRE** on 1/31/2013

	Effluent								
	$cBOD_5$		TSS		pH	D.O.	Fecals	TRC	Weather / Comments
DAY	mg/L	lbs / day	mg/L	lbs / day	SU	mg/L	/100 ml	mg/L	
1					7.0	11.13		NA	cloudy
2	3	67.7	5	112.9	6.8	10.57			cloudy
3	2	48.4	3	72.6	6.9	9.41	80		cloudy, snow
4					6.9	9.23	50		sun
5					6.9	9.76			sun
6					6.8	10.54			sun
7					6.9	11.05			sun, warm
8					6.9	10.58			sun
9	3	61.3	3	61.3	6.8	9.77			sun
10	2	40.6	6	121.8	6.9	9.71	240		sun, warm
11					6.9	9.15	23		sun, warm, rain
12					6.9	8.11			rain
13					6.8	9.21			cloudy, windy, rain
14					6.8	10.27			cloudy, rain
15					6.9	10.15			cloudy
16	2	52.4	10	261.9	6.8	8.98			sun
17	2	48.3	8	193.1	6.9	8.79	<2		sun
18					6.9	8.52	<2		sun
19					6.8	8.44			sun
20					6.9	8.69			sun
21					6.7	9.18			sun
22					6.7	9.14			cloudy, rain
23	3	66.8	11	245.0	7.0	8.65			cloudy
24	3	62.6	5	104.3	7.3	8.99	23		sun
25					7.1	8.82	<2		sun, rain
26					7.0	8.24			sun
27					6.8	9.73			sun
28					6.7	10.61			cloudy, rain
29					6.7	10.18			cloudy, trace rain
30	3	103.4	4	137.8	6.8	8.97			cloudy, rain
31	2	52.4	3	78.6	6.8	9.02	<2		sun
AVG	2	60.4	6	138.9	6.9	9.47	* 9		

REMARKS: * Fecal Coliform avaerage is reported as Geometric Average.

☐ Check here if no biosolids were removed from plant during the month (otherwise, attach page 4).
☒ Check here if there were no noncompliance discharges during the month (otherwise, attach page 5).
☒ Check here if there were no credits or offsets applied during the month (otherwise, attach pages 6 and 7).

Laboratory Name: ~~Sunbury Municipal~~ In house? YES
Signature:
Date: 04/26/2010

SUPPLEMENTAL BIOSOLIDS REPORT
Sunbury Municipal Authority
City of Sunbury, Northumberland County
Watershed 6B

For the Month March 2010
NPDES Permit PA0026557

Biosolids (Sludge) Production Information (prior to incineration)

Hauled as Liquid Sludge (list each removal event)

Gallons	X % Solids	X .0000417	= Dry Tons

Hauled as Dewatered Sludge (list each removal event)

Tons dewatered sludge	X % Solids	X .01	= Dry Tons
18.38	13.9	0.01	2.55
16.09	13.9	0.01	2.24
16.12	13.9	0.01	2.24
17.67	13.7	0.01	2.42
16.05	14.1	0.01	2.26
17.62	13.9	0.01	2.45
17.64	13.6	0.01	2.40
13.46	13.6	0.01	1.83
17.36	13.6	0.01	2.36
16.65	13.7	0.01	2.28
16.28	13.6	0.01	2.21
14.88	13.6	0.01	2.02
15.07	13.3	0.01	2.00
16.66	13.4	0.01	2.23
		TOTAL PAGE 1	**31.5**
		TOTAL PAGE 2	**22.7**

Biosolids Disposal & Beneficial Use Information

(List all sites where biosolids are routinely applied or disposed, even if they were not used this month.)

	Site 1	Site 2	Site 3	Site4
Site Name:	Lycoming Co. Landfill			
County:	Lycoming			
DEP Permit Number:				
Dry Tons Disposed:	**54.2**			
Gallons Disposed:				
Type of Disposal/Use:*	landfill			
Hauler Name:	Sunbury Municipal Authority			

* For example, agricultural utilization, composting, landfill, other treatment plant, etc.

For Biosolids that have been incinerated:
Pre-incineration weight = _____ dry tons
Post- incineration weight = _____ dry tons

Tammy Beaver
Signature
(570) 988-1930
Telephone

Lab Tech
Title
4/6/10
Date

SUPPLEMENTAL BIOSOLIDS REPORT
Sunbury Municipal Authority
City of Sunbury, Northumberland County
Watershed 6B

For the Month March 2010
NPDES Permit PA0026557

Biosolids (Sludge) Production Information (prior to incineration)

Hauled as Liquid Sludge (list each removal event)

Gallons	X % Solids	X .0000417	= Dry Tons

Hauled as Dewatered Sludge (list each removal event)

Tons dewatered sludge	X % Solids	X .01	= Dry Tons
16.60	13.8	0.01	2.29
14.94	13.5	0.01	2.02
16.66	13.5	0.01	2.25
17.19	13.3	0.01	2.29
17.46	13.6	0.01	2.37
16.86	13.4	0.01	2.26
17.17	13.2	0.01	2.27
16.97	13.5	0.01	2.29
16.46	13.5	0.01	2.22
17.41	13.9	0.01	2.42
		TOTAL PAGE 2	22.7

DISCHARGE MONITORING REPORT SUPPLEMENTAL – ANNUAL NUTRIENT SUMMARY

For the Compliance Year 10/01/09 - 9/30/10

MUNICIPAL AUTHORITY OF SUNBURY **NPDES** Permit **PA0026557**

City of Sunbury, Northumberland County

6B Watershed

Month	Monthly Total Mass Load (Pounds)			Credit sold (Pounds)		Credit Purchased (Pounds)		Offsets (Pounds)		Monthly Net Mass Load (Pounds)	
	Ammonia	TN	TP	TN	TP	TN	TP	TN	TP	TN	TP
Oct	582	4130	101							4130	101
Nov	734	3124	120							3124	120
Dec	587	2950	97							2950	97
Jan	3792	3812	85							3812	85
Feb	886	3305	71							3305	71
Mar	1076	6100	152							6100	152
Apr											
May											
Jun											
July											
Aug											
Sept											
Totals	7657	23421	626	XXX	XXX	XXX	XXX	XXX	XXX	23421	626

Truing Period Calculations	Annual Total Mass Load (Pounds)	Credit sold (Pounds)	Credit Purchased (Pounds)	Offsets (Pounds)	Annual Net Mass Load (Pounds)
	Truing Period Adjustment (Oct 1 thru Nov 28)			XXXXX	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Danny Ramer General Manager	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY 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.		570	988-198	10	04	26
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA COD	NUMBER	YEAR	MO	DAY

Annual Net Mass Load after Truing Period = Annual Net Mass Load before Truing Period + Credits Sold in Truing Period - Credits Purchased in Truing Period

Nutrient Summary Supplemental DMR Form shall be submitted by November 28 following the end of the compliance year.

All credits sold or credits purchased shall be accounted for in a lump sum.

All offsets shall be accounted for on a monthly basis. See permit conditions for additional information

COMBINED SEWER OVERFLOW REPORT FORM

SUPPLEMENTAL DISCHARGE MONITORING REPORT

NPDES Permit # 0026557

Overflow Location: Hopper Alley

Outfall Number: 002

Prepared By: Cammey Beaver

Date: 4/6/2010

Signature: CBeaver

Title/Position: lab tech

DATE	Cause	Number of Events	Duration/ Event (Hrs)	Event Flow(s) MGD	Total Flow (MGD)	Comments (Rainfall, Intensity, Etc.)
1						
2	dusting					.03"
3	snow					.06"
4						
5						
6						
7						
8						
9						
10						
11						
12	rain					.34"
13	rain					.66"
14	rain					.41"
15						
16						
17						
18						
19						
20						
21						
22	rain					.60"
23						
24						
25	rain					.48"
26						
27						
28	rain					1.11"
29						
30	rain					.31"
31						

Use one report form for each monitored overflow point; use separate sheets for additional comments or narrative explanations.

This station is no longer used for sanitary sewer flows and is storm water only

COMBINED SEWER OVERFLOW REPORT FORM

SUPPLEMENTAL DISCHARGE MONITORING REPORT

NPDES Permit # 0026557

Overflow Location: Church Street

Outfall Number: 003

Prepared By: D. Michael Brockman

Date: 4/8/2010

Signature:

Title/Position: WWTP Manager

DATE	Cause	Number of Events	Duration/ Event (Hrs)	Event Flow(s) MGD	Total Flow (MGD)	Comments (Rainfall, Intensity, Etc.)
1						
2	dusting					.03"
3	snow					.06"
4						
5						
6						
7						
8						
9						
10						
11						
12	rain					.34"
13	rain					.66"
14	rain					.41"
15						
16						
17						
18						
19						
20						
21						
22	rain					.60"
23						
24						
25	rain					.48"
26						
27						
28	rain					1.11"
29						
30	rain					.31"
31						

Use one report form for each monitored overflow point; use separate sheets for additional comments or narrative explanations.

No bypasses during the month of March

COMBINED SEWER OVERFLOW REPORT FORM

SUPPLEMENTAL DISCHARGE MONITORING REPORT

NPDES Permit # 0026557

Overflow Location: Reagan Street

Outfall Number: 004

Prepared By: D. Michael Brockman

Date: 4/8/2010

Signature:

Title/Position: WWTP Manager

DATE	Cause	Number of Events	Duration/ Event (Hrs)	Event Flow(s) MGD	Total Flow (MGD)	Comments (Rainfall, Intensity, Etc.)
1						
2	dusting					.03"
3	snow					.06"
4						
5						
6						
7						
8						
9						
10						
11						
12	rain	1	2	0.063	0.063	.34"
13	rain					.66"
14	rain	1	2	0.024	0.024	.41"
15						
16						
17						
18						
19						
20						
21						
22	rain					.60"
23						
24						
25	rain	1	2	0.604	0.604	.48"
26						
27						
28	rain					1.11"
29						
30	rain					.31"
31						

Use one report form for each monitored overflow point; use separate sheets for additional comments or narrative explanations.

COMBINED SEWER OVERFLOW REPORT FORM

SUPPLEMENTAL DISCHARGE MONITORING REPORT

NPDES Permit # 0026557

Overflow Location: Spring Run

Outfall Number: 005

Prepared By: Cammey Beaver

Date: 4/6/2010

Signature: CBeaver

Title/Position: lab tech

DATE	Cause	Number of Events	Duration/ Event (Hrs)	Event Flow(s) MGD	Total Flow (MGD)	Comments (Rainfall, Intensity, Etc.)
1						
2	dusting					.03"
3	snow					.06"
4						
5						
6						
7						
8						
9						
10						
11						
12	rain					.34"
13	rain	1	1.6	0.24	0.24	.66"
14	rain					.41"
15						
16						
17						
18						
19						
20						
21						
22	rain					.60"
23						
24						
25	rain					.48"
26						
27						
28	rain	1	4.5	0.88	0.88	1.11"
29						
30	rain					.31"
31						

Use one report form for each monitored overflow point; use separate sheets for additional comments or narrative explanations.

COMBINED SEWER OVERFLOW REPORT FORM

SUPPLEMENTAL DISCHARGE MONITORING REPORT

NPDES Permit # 0026557

Overflow Location: WWTF

Outfall Number: 0005A

Prepared By: Cammey Beaver

Date: 4/6/2010

Signature: Beaver

Title/Position: lab tech

DATE	Cause	Number of Events	Duration/ Event (Hrs)	Event Flow(s) MGD	Total Flow (MGD)	Comments (Rainfall, Intensity, Etc.)
1						
2	dusting					.03"
3	snow					.06"
4						
5						
6						
7						
8						
9						
10						
11						
12	rain					.34"
13	rain	1		0.33	0.33	.66"
14	rain	1		0.21	0.21	.41"
15						
16						
17						
18						
19						
20						
21						
22	rain					.60"
23						
24						
25	rain					.48"
26						
27						
28	rain	1		1.5	1.5	1.11"
29						
30	rain					.31"
31						

Use one report form for each monitored overflow point; use separate sheets for additional comments or narrative explanations.

COMBINED SEWER OVERFLOW REPORT FORM

SUPPLEMENTAL DISCHARGE MONITORING REPORT

NPDES Permit # 0026557

Overflow Location: Sunbury Hospital Paking Lot

Outfall Number: 006

Prepared By: D. Michael Brockman

Date: 4/8/2010

Signature:

Title/Position: WWTP Manager

DATE	Cause	Number of Events	Duration/ Event (Hrs)	Event Flow(s) MGD	Total Flow (MGD)	Comments (Rainfall, Intensity, Etc.)
1						
2	dusting					.03"
3	snow					.06"
4						
5						
6						
7						
8						
9						
10						
11						
12	rain					.34"
13	rain					.66"
14	rain					.41"
15						
16						
17						
18						
19						
20						
21						
22	rain					.60"
23						
24						
25	rain					.48"
26						
27						
28	rain					1.11"
29						
30	rain					.31"
31						

Use one report form for each monitored overflow point; use separate sheets for additional comments or narrative explanations.

No bypasses during the month of March

COMBINED SEWER OVERFLOW REPORT FORM

SUPPLEMENTAL DISCHARGE MONITORING REPORT

NPDES Permit # 0026557

Overflow Location: Route 61

Outfall Number: 007

Prepared By: D. Michael Brockman

Date: 4/8/2010

Signature:

Title/Position: WWTP Manager

DATE	Cause	Number of Events	Duration/ Event (Hrs)	Event Flow(s) MGD	Total Flow (MGD)	Comments (Rainfall, Intensity, Etc.)
1						
2	dusting					.03"
3	snow					.06"
4						
5						
6						
7						
8						
9						
10						
11						
12	rain					.34"
13	rain					.66"
14	rain					.41"
15						
16						
17						
18						
19						
20						
21						
22	rain					.60"
23						
24						
25	rain					.48"
26						
27						
28	rain	1				1.11"
29						
30	rain					.31"
31						

Use one report form for each monitored overflow point; use separate sheets for additional comments or narrative explanations.

THE MUNICIPAL AUTHORITY OF THE CITY OF SUNBURY

COUNTY OF NORTHUMBERLAND, PENNSYLVANIA
462 South 4th Street
SUNBURY, PENNSYLVANIA 17801

MAIN OFFICE
Phone: (570) 286-5858
Fax: (570) 286-7162

RECEIVED
EPA REGION III
APR 30 2010
WATER PROTECTION DIVISION
(3WP00)

April 26, 2010

PA DEP
Northcentral Field Office
Water Management Program
208 West Third Street, Suite 101
Williamsport, PA 17701-6448

RE: March, 2010 DMR **NPDES # PA0026557**

To Whom It May Concern:

Please find attached the March, 2010 DMR.

Please contact me if you have any questions or comments.

Sincerely

D. Michael Brockman
WWTP Manager
Sunbury Municipal Authority
Plant: (570) 988-1930
E-mail: mbrock@ptd.net

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

RECEIVED
EPA REGION III
APR 23 2010
WATER PROTECTION DIVISION
(3WP00)

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2010	TO	03/31/2010

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	49	******		0	Daily	COMP24
00080 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	5.9	******	******		0	7/Daily	GRAB
00300 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.1	******	7.8		0	Daily	GRAB
00400 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1901	2436		******	11	14		0	Daily	COMP24
00530 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	1432	******		******	8.5	******		0	Daily	COMP24
00610 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	20.22	27.30		******	******	******	******	0	Continuous	MEASRD
50050 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.02	******		0	2/Shift	GRAB
50060 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Deborah A.S. Hoag, P.E. Utilities Division Mngr	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Deborah A.S. Hoag	610-655-6258		04/19/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2010	TO	03/31/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01201	******		******	<0.00007	******		0	Weekly	COMP24
71900 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	1	******		0	Daily	GRAB
74055 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1459	1701		******	8	10		0	Daily	COMP24
80082 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Deborah A.S. Hoag, P.E. Utilities Division Mngr	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Deborah A.S. Hoag	610-655-6258		04/19/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

City of Reading Wastewater Treatment Plant

	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
28-Feb	12.0	17	9	7	7.4	19.41	8.6	7.4	0.77		2	42	0.0	30	46
1-Mar	14.9	18	7	6	10.4	19.31	7.9	7.4	0.71		1	50	0.0	34	50
2-Mar	13.7	20	9	7	10.1	19.54	7.9	7.5	0.79		1	50	0.0	27	48
3-Mar	12.8	20	7	6	10.3	20.65	7.8	7.2	0.92		1	50	0.0	36	44
4-Mar	14.0	20	8	8	6.6	19.97	8.0	7.3	0.78		1	50	0.0	31	49
5-Mar	14.1	20	9	9	7.6	18.83	8.1	7.7	0.80		1	42	0.0	32	52
6-Mar	12.2	17	8	8	7.4	18.53	8.0	7.3	0.84		1	50	0.0	27	57
7-Mar	13.0	20	8	7	8.7	19.23	7.8	7.1	1.27		1	50	0.0	27	59
8-Mar	14.8	35	8	8	10.4	18.77	7.7	7.4	1.30		1	60	0.0	33	62
9-Mar	14.3	23	10	9	11.0	17.92	7.5	7.4	0.75		1	60	0.0	29	65
10-Mar	14.6	9	5	8	10.5	17.98	7.6	7.6	0.90		1	60	0.0	29	61
11-Mar	16.2	9	6	8	10.0	18.24	7.4	7.5	0.70		1	60	0.0	43	61
12-Mar	16.2	20	6	8	9.7	18.98	7.4	7.7	0.82		2	70	0.3	43	47
13-Mar	15.2	47	21	28	10.7	[illegible]	5.9	7.6	0.90		2	60	1.8	42	49
14-Mar	14.8	13	7	15	4.2	22.910	6.3	7.5	1.20		3	42	0.3	44	52
15-Mar	14.3	8	4	9	6.7	24.69	7.5	7.3	1.20		1	42	0.1	42	48
16-Mar	14.0	15	8	11	7.4	21.84	7.3	7.4	0.72		4	42	0.0	36	69
17-Mar	15.0	14	6	9	7.2	20.91	7.5	7.4	0.89		1	42	0.0	29	72
18-Mar	15.5	22	11	14	7.5	19.66	7.0	7.2	0.83		1	42	0.0	29	72
19-Mar	14.1	23	8	8	11.0	18.52	7.2	7.4	0.71		1	42	0.0	34	72
20-Mar	15.6	16	8	9	10.2	18.28	7.1	7.5	1.08		1	42	0.0	37	74
21-Mar	16.6	16	10	13	9.5	18.81	6.8	7.3	1.10		1	50	0.0	40	75
22-Mar	17.1	22	11	17	12.0	24.62	6.0	7.4	0.88		1	50	1.0	56	62
23-Mar	15.5	13	7	14	8.8	20.78	6.5	7.3	1.19		1	42	0.0	46	61
24-Mar	17.0	16	8	8	8.2	18.76	7.4	7.4	0.65		5	50	0.0	37	65
25-Mar	14.3	19	8	15	8.5	19.54	7.2	7.8	0.69		2	50	0.1	33	67
26-Mar	14.9	19	8	8	6.0	17.40	7.2	7.3	0.70		1	50	0.1	30	54
27-Mar	15.3	17	7	8	4.5	16.95	7.8	7.6	1.04		1	50	0.0	24	50
28-Mar	15.2	20	10	14	4.7	21.60	7.8	7.6	0.99		3	50	0.5	31	52
29-Mar	15.5	18	8	10	7.9	20.44	7.2	7.3	0.96		1	42	0.0	48	59
30-Mar	15.3	30	13	23	11.1	[illegible]	7.0	7.5	0.72		2	50	0.9	37	48
31-Mar	13.7	21	9	12	4.9	23.06	7.2	7.5	1.51		1	42	0.0	41	71
1-Apr			8	10		20.26									
2-Apr			10	12		19.27									
3-Apr			10	16		19.06									
						See DO profile					<				
TOTAL		600	263	337	263.5	626.7	####	229.9	28.54			1532	5.2		
Week 1	13.5	19	8	7	8.7	19.44	7.92	7.34	0.87		1	49	0.0	31	51
Week 2	15.2	22	9	11	9.5	20.30	7.11	7.51	0.94		2	59	0.3	38	57
Week 3	15.0	16	7	11	8.5	20.39	7.20	7.33	0.93		1	43	0.0	35	69
Week 4	15.6	18	8	12	7.5	19.95	7.13	7.47	0.88		2	49	0.3	37	59
Week 5			10	14											
Monthly	14.8	19	8	11	8.5	20.22	7.32	7.41	0.92		1	49	0.2	36	59
	Only weekly highlighted averages have been adjusted as stated below.														
Min =	12.2	8	4	6	4.2	16.95	5.9	7.1	0.65		1	42	0.0	24	44
Max =	17.1	47	21	28	12.0	27.30	8.1	7.8	1.51		5	70	1.8	56	75
	Weekly averages: 2/28-3/6, 3/7-3/13, 3/14-3/20, 3/21-3/27 and 3/28-4/3.														
DISCHARGE LIMITATIONS															
Ave Monthly			25	30	18		Min	6.0			10,000	186			
Ave Weekly			40	45			of	to							
Inst. Max			50	60	24		5.0	9.0				465			

Print Date: 4/16/2010

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3-N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
28-Feb	12,685	36,371	49,056	-21,085	385	27,971	2,752	1,457	5,790	20,783	26,573	-12,110	14,463	1,133	7,099	667	1,829	2496	1,775	70	4,271	1,200
1-Mar	6,993	42,534	49,527	12,960		62,487	2,899	1,127	8,847	41,683	50,530	32,786	83,317	966	6,679	559	1,691	2250	2,832	4,038	5,082	1,675
2-Mar	6,164	50,526	56,690	-10,508		46,182	3,259	1,467	5,321	31,391	36,711	13,389	50,100	1,141	7,266	584	1,806	2,390	3,404	1,236	5,794	1,646
3-Mar	5,416	35,320	40,736	9,531		50,268	3,444	1,206	5,941	39,760	45,701	21,957	67,658	1,033	6,343	563	1,625	2,187	3,193	486	5,380	1,774
4-Mar	6,717	40,424	47,141	13,213		60,353	3,331	1,332	7,440	47,853	55,293	7,072	62,365	1,332	8,223	506	1,519	2,025	2,559	2,317	4,584	1,094
5-Mar	5,810	45,820	51,630	-5,539	472	46,090	3,141	1,413	4,841	28,610	33,451	18,401	51,851	1,413	7,871	584	1,855	2,439	3,927	2,158	6,366	1,186
6-Mar	7,137	35,028	42,165	4,481		46,646	2,627	1,236	6,240	30,624	36,865	52,162	89,026	1,236	8,313	571	1,771	2,342	4,721	2,318	7,063	1,150
7-Mar	6,814	44,469	51,283	-22,919	427	28,364	3,208	1,283	8,806	101,348	110,154	-50,105	60,049	1,123	6,462	563	1,675	2,238	3,172	1,801	5,410	1,395
8-Mar	7,946	53,042	60,989	4,274		65,263	5,479	1,252	7,615	44,436	52,051	40,916	92,966	1,252	8,909	649	1,912	2,560	4,099		6,659	1,628
9-Mar	6,850	45,308	52,158	13,020		65,177	3,437	1,495	5,862	166,654	172,516	-110,468	62,049	1,345	6,188	433	1,734	2,167	3,217		5,384	1,644
10-Mar	9,269	52,742	62,011	-3,899		58,111	1,350	750	9,698	29,887	39,586	10,224	49,810	1,200	3,723	687	1,591	2,279	2,643	376	4,922	1,575
11-Mar	5,863	45,636	51,499	19,024	301	70,523	1,369	913	6,850	47,158	54,008	63,614	117,622	1,217	6,936	608	1,540	2,148	2,688	1,844	4,836	1,521
12-Mar	6,998	44,623	51,621	-972		50,649	3,166	950	8,102	26,556	34,659	73,197	107,855	1,266	2,422	598	1,948	2,547	1,360	60	3,907	1,528
13-Mar	8,771	43,607	52,378	-11,395		40,983	10,701	4,781	13,773	47,187	60,960	156,931	217,892	6,375	3,786	715	1,708	2,423	3,542	761	5,965	2,436
14-Mar	5,683	41,083	46,766	-527	4,524	46,239	2,484	1,337	7,578	24,650	32,227	38,086	70,314	2,866	8,675	644	1,821	2,465	4,413	1,549	6,878	806
15-Mar	18,381	38,325	56,707	14,856		71,562	1,647	824	6,985	27,126	34,111	31,999	66,110	1,853	5,745	570	1,493	2,063	3,475	1,551	5,538	1,369
16-Mar	5,345	48,560	53,905	67,287		121,192	2,732	1,457	10,444	71,068	81,512	64,851	146,362	2,004	4,466	600	1,680	2,280	3,143	1,368	5,423	1,339
17-Mar	6,413	40,032	46,445	6,354		52,799	2,441	1,046	5,441	27,022	32,463	30,896	63,359	1,570	4,608	649	1,601	2,250	2,835	355	5,085	1,257
18-Mar	5,714	37,601	43,315	-10,475	257	32,840	3,607	1,804	8,626	32,411	41,037	-4,199	36,837	2,296	5,046	560	1,599	2,160	625	861	2,784	1,226
19-Mar	8,741	40,115	48,856	-2,051		46,805	3,553	1,236	6,718	42,717	49,436	-1,347	48,089	1,236	5,137	603	1,908	2,511	2,126	1,161	4,638	1,699
20-Mar	6,020	40,349	46,369	10,329		56,698	2,439	1,220	5,685	46,254	51,939	12,670	64,609	1,372	2,552	508	1,545	2,053	1,757	856	3,811	1,555
21-Mar	7,894	37,246	45,140	7,390	745	52,529	2,510	1,569	7,010	25,367	32,377	25,271	57,648	2,039	4,635	548	1,601	2,148	2,445	788	4,593	1,486
22-Mar	5,582	43,413	48,995	10,188		59,183	4,517	2,259	6,634	41,115	47,748	25,558	73,307	3,491	5,853	635	1,839	2,474	3,983	705	6,456	2,464
23-Mar	4,853	40,626	45,479	39,648		85,126	2,253	1,213	4,457	19,501	23,958	77,328	101,286	2,426	4,577	597	1,690	2,287	3,600	953	5,887	1,523
24-Mar	4,337	33,760	38,098	-7,837		30,261	2,503	1,252	2,760	21,484	24,244	63,319	87,563	1,252	4,912	588	1,669	2,257	3,486	615	5,743	1,289
25-Mar	7,309	51,208	58,516	-2,780	214	55,736	3,096	1,304	6,035	31,544	37,579	39,636	77,215	2,444	3,498	590	1,782	2,372	2,522	54	4,894	1,388
26-Mar	6,634	49,106	55,740	-11,017		44,723	2,757	1,161	1,790	12,170	13,959	14,663	28,623	1,161	3,082	589	2,039	2,628	1,858	1,408	4,486	866
27-Mar	5,448	38,864	44,313	2,962		47,274	2,403	990	4,958	29,148	34,107	-2,420	31,687	1,131	3,361	536	1,739	2,275	1,584	416	3,859	635
28-Mar	7,420	65,365	72,785	-4,893	922	67,892	3,603	1,801	9,121	224,763	233,884	-140,948	92,936	2,522	11,916	619	1,755	2,373	2,635	1,399	5,009	850
29-Mar	8,019	54,210	62,229	3,143		65,372	3,068	1,364	7,547	26,021	33,568	58,806	92,374	1,705	8,358	566	1,702	2,268	5,875	3,768	8,143	1,352
30-Mar	11,934	62,200	74,134	-4,404	877	69,730	5,685	2,463	7,411	41,561	48,971	24,549	73,520	4,358	9,533	717	1,979	2,696	5,944	2,402	8,641	2,103
31-Mar	8,763	54,799	63,562	2,290		65,853	4,039	1,731	7,316	22,153	29,469	35,129	64,598	2,308	8,677	531	1,527	2,058	2,269	2,043	4,327	940
1-Apr								1,352						1,690								
2-Apr								1,607						1,929								
3-Apr								1,590						2,543								
TOTAL	225,238	1,395,942	1,621,180	141,731	8,738	1,762,911	102,750	45,234	215,854	1,449,221	1,665,075	723,923	2,388,997	58,933	187,752	18,272	53,345	71,616	95,931	39,647	167,547	44,401
Week 1	6,436	42,017	48,453	174	450	48,627	3,130	1,320	6,777	45,896	52,672	13,666	66,338	1,179	7,308	561	1,706	2,267	3,401	2,051	5,669	1,417
Week 2	7,340	46,577	53,917	2,789	2,412	56,706	3,998	1,632	8,497	55,218	63,715	38,929	102,644	1,968	5,806	619	1,751	2,370	3,137	918	5,507	1,591
Week 3	8,358	40,318	48,676	13,384	501	62,061	2,704	1,275	7,273	38,852	46,125	22,877	69,002	1,885	4,598	577	1,632	2,209	2,344	991	4,553	1,419
Week 4	5,941	46,049	51,989	3,753	568	55,742	3,019	1,392	5,108	54,246	59,354	11,020	70,374	1,992	5,314	593	1,787	2,381	2,810	793	5,191	1,288
Week 5								1,701						2,436								
Monthly	7,266	45,030	52,296	4,572	971	56,868	3,315	1,459	6,963	46,749	53,712	23,352	77,064	1,901	6,057	589	1,721	2,310	3,095	1,367	5,405	1,432
Min =	4337	33760	38098	-22919	214	28,364	1,350	750	1,790	12,170	13,959	-140,948	28,623	966	2,422	433	1,493	2,025	625	54	2,784	635
Max =	18381	65365	74134	67287	4524	121,192	10,701	4,781	13,773	224,763	233,884	156,931	217,892	6,375	11,916	717	2,039	2,696	5,944	4,038	8,641	2,464
								4,170						7,130								3,000
								6,258						10,696								

Print Date: 4/16/2010

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
28-Feb								
1-Mar								
2-Mar	0.00010	0.00324	0.00020	0.02150	0.00010	0.01399	< 0.00007	< 0.01141
3-Mar	0.00010	0.00349	0.00020	0.02018	0.00210	0.28530	< 0.00007	< 0.01206
4-Mar								
5-Mar								
6-Mar								
7-Mar								
8-Mar								
9-Mar	< 0.00007	< 0.00223	0.00010	0.00985	0.00010	0.01304	< 0.00007	< 0.01046
10-Mar								
11-Mar								
12-Mar								
13-Mar								
14-Mar								
15-Mar								
16-Mar	< 0.00007	< 0.00288	0.00008	0.00914	0.00030	0.04661	< 0.00007	< 0.01275
17-Mar								
18-Mar								
19-Mar								
20-Mar								
21-Mar								
22-Mar								
23-Mar	< 0.00007	< 0.00252	0.00008	0.00867	0.00030	0.04328	< 0.00007	< 0.01213
24-Mar								
25-Mar								
26-Mar								
27-Mar								
28-Mar								
29-Mar								
30-Mar	0.00010	0.00481	0.00007	0.00990	0.00070	0.13264	< 0.00007	< 0.01326
31-Mar								
1-Apr								
2-Apr								
3-Apr								
Total	0.00051	0.01918	0.00073	0.07924	0.00360	0.53487	0.00042	0.07207
Week 1	0.00010	0.00337	0.00020	0.02084	0.00110	0.14965	< 0.00007	< 0.01173
Week 2	< 0.00007	< 0.00223	0.00010	0.00985	0.00010	0.01304	< 0.00007	< 0.01046
Week 3	< 0.00007	< 0.00288	0.00008	0.00914	0.00030	0.04661	< 0.00007	< 0.01275
Week 4	< 0.00007	0.00252	0.00008	0.00867	0.00030	0.04328	< 0.00007	< 0.01213
Week 5	0.00010	0.00481	0.00007	0.00990	0.00070	0.13264	< 0.00007	< 0.01326
Monthly	< 0.00009	< 0.00320	0.00012	0.01321	0.00060	0.08914	< 0.00007	< 0.01201
Min =	< 0.00007	< 0.00223	0.00007	0.00867	0.00010	0.01304	< 0.00007	< 0.01046
Max =	0.00010	0.00481	0.00020	0.02150	0.00210	0.28530	< 0.00007	< 0.01326
							0.000073	0.055
							0.000036	

Print Date: 4/16/2010

City of Reading Wastewater Treatment Plant

Laboratory Process Control Data

	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent				Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
28-Feb	390	178	7.3	20.5	350	200	7.7	17.6	360	195	18.3	-155	-89	13.0	205	106	31.3	7.0	16.36	200	80	21.3	6.4	43	27	18.7		7.1	24	17	15.3	
1-Mar	215	272	7.6	17.2	400	392	7.5	15.9	357	364	16.2	93	236	20.4	450	600	36.6	7.2	16.65	240	88	22.1	6.6	62	45	19.1	320	7.1	32	14	16.5	300
2-Mar	190	164	7.5	18.0	470	292	7.3	16.8	405	262	17.1	-75	96	24.3	330	358	41.4	8.0	16.78	235	92	24.8	6.9	56	45	19.8		7.1	30	14	18.2	
3-Mar	155	170	7.5	16.1	350	394	7.3	16.1	300	336	16.1	70	162	23.5	370	498	39.6	7.0	16.29	180	90	22.4	6.7	59	45	20.3	340	6.8	25	9	16.9	280
4-Mar	195	216	7.4	14.7	370	438	7.2	13.9	328	385	14.1	92	49	17.8	420	434	31.9	7.0	17.23	208	86	18.2	6.8	50	44	16.5		7.0	18	6	13.3	
5-Mar	180	150	7.6	18.1	410	256	7.4	16.6	358	232	16.9	-38	128	27.3	320	360	44.2	7.1	17.27	225	97	22.7	6.7	55	36	19.8	240	7.2	28	13	15.6	220
6-Mar	215	188	7.8	17.2	350	306	7.7	17.7	316	277	17.6	34	391	35.4	350	668	53.0	7.3	15.98	195	93	24.1	6.9	55	37	20.7		7.1	25	9	16.3	
7-Mar	195	252	7.4	16.1	430	980	7.0	16.2	371	796	16.2	-166	-362	22.9	205	434	39.1	6.6	16.59	185	69	23.2	6.6	44	19	22.0		6.9	27	9	18.5	
8-Mar	240	230	7.5	19.6	530	444	7.5	19.1	458	391	19.2	32	307	30.8	490	698	50.0	7.2	15.97	240	90	26.6	6.7	68	44	26.2	320	7.1	36	17	21.7	240
9-Mar	215	184	7.7	13.6	460	1692	7.5	17.6	400	1323	16.6	100	-847	24.7	500	476	41.3	7.1	15.63	275	93	25.5	6.9	80	44	16.0		7.1	34	13	17.6	
10-Mar	302	316	7.5	22.4	600	340	7.3	18.1	523	334	19.2	-33	86	22.3	490	420	41.5	7.5	14.22	270	91	26.0	6.9	70	40	24.1	300	7.2	ns	NS	NS	380
11-Mar	190	222	7.5	19.7	480	496	7.1	16.2	409	429	17.1	151	505	21.3	560	934	38.4	7.3	15.10	220	79	26.7	6.9	72	47	24.9		7.1	30	11	14.9	
12-Mar	228	264	7.8	19.5	410	244	7.3	17.9	370	248	18.3	-7	525	9.7	363	773	28.0	7.0	16.73	243	110	17.6	6.6	66	58	19.1	240	7.3	34	14	17.3	220
13-Mar	135	212	7.5	11.0	268	290	7.5	10.5	230	268	10.6	-50	689	15.6	180	957	26.2	7.0	27.30	170	94	12.7	6.5	66	43	15.2		7.1	44	30	10.9	
14-Mar	105	140	7.5	11.9	300	180	7.6	13.3	245	169	12.9	-3	199	23.1	242	368	36.0	7.7	22.91	145	100	14.3	7.2	48	39	12.5		7.0	32	26	9.4	
15-Mar	400	152	7.3	12.4	308	218	7.1	12.0	333	200	12.1	87	188	20.4	420	388	32.5	7.5	20.43	205	74	16.6	7.2	61	37	14.7	260	7.2	37	15	11.6	240
16-Mar	130	254	7.4	14.6	425	622	6.9	14.7	347	525	14.7	433	417	20.2	780	942	34.9	6.4	18.63	232	84	20.3	6.9	56	38	17.7		6.4	35	19	14.4	
17-Mar	165	140	7.3	16.7	400	270	7.1	16.0	334	234	16.2	46	222	20.4	380	456	36.6	7.0	16.66	220	82	20.3	6.4	56	45	17.1	200	6.6	31	19	13.8	220
18-Mar	155	234	7.5	15.2	355	306	7.2	15.1	303	287	15.1	-73	-29	4.4	230	258	19.5	6.2	17.12	ns	NS	NS	6.5	94	47	17.5		6.4	40	23	12.7	
19-Mar	255	196	7.4	17.6	370	394	7.1	17.6	342	346	17.6	-14	-9	14.9	328	337	32.5	6.8	17.11	213	91	22.8	6.6	68	55	21.3	240	7.1	36	27	15.3	260
20-Mar	180	170	7.6	15.2	410	470	7.5	15.7	352	394	15.6	78	96	13.3	430	490	28.9	7.1	15.81	200	75	18.3	6.9	60	54	17.0		7.0	42	34	14.6	
21-Mar	232	206	7.6	16.1	370	252	7.4	15.9	335	240	16.0	55	188	18.1	390	428	34.1	7.0	16.15	247	93	18.7	6.7	78	55	18.1		6.9	37	19	13.7	
22-Mar	138	164	7.3	15.7	340	322	7.0	14.4	291	284	14.7	61	152	23.7	352	436	38.4	7.0	20.16	212	86	20.0	6.6	74	67	19.3	300	6.6	32	22	16.2	240
23-Mar	135	124	7.6	16.6	375	180	7.3	15.6	315	166	15.8	275	536	25.0	590	702	40.8	6.9	17.30	210	76	21.1	6.8	54	59	17.3		6.9	18	16	14.5	
24-Mar	132	84	7.2	17.9	352	224	7.1	17.4	296	188	17.5	-61	492	27.1	235	680	44.6	7.4	15.44	218	64	24.7	6.6	50	31	21.6	240	7.1	32	17	15.1	220
25-Mar	218	180	7.6	17.6	500	308	7.0	17.4	430	276	17.4	-20	292	18.6	410	568	36.0	6.9	16.30	268	59	20.5	6.4	71	40	18.7		6.8	36	14	14.5	
26-Mar	215	58	7.8	19.1	460	114	7.2	19.1	405	101	19.1	-80	107	13.5	325	208	32.6	6.8	16.50	275	47	19.8	6.5	81	45	17.3	240	7.1	32	11	12.9	240
27-Mar	178	162	7.8	17.5	400	300	7.5	17.9	347	267	17.8	23	-19	12.4	370	248	30.2	7.1	15.32	218	52	18.8	6.5	56	37	15.4		7.2	30	17	11.3	
28-Mar	205	252	7.7	17.1	570	1960	7.5	15.3	482	1550	15.7	-32	-934	17.5	450	616	33.2	7.0	18.09	305	53	19.3	6.5	69	35	17.2		7.1	22	18	12.3	
29-Mar	238	224	7.3	16.8	500	240	7.1	15.7	438	236	16.0	22	414	41.3	460	650	57.3	7.4	17.04	295	98	22.8	6.9	49	19	20.3	300	7.3	29	17	15.3	220
30-Mar	248	154	7.3	14.9	440	294	7.2	14.0	391	258	14.2	-23	130	31.4	368	388	45.6	7.4	22.72	265	82	20.5	6.7	76	38	19.3		7.3	48	23	16.2	
31-Mar	218	182	7.5	13.2	470	190	7.1	13.1	405	188	13.1	15	224	14.5	420	412	27.6	7.0	18.80	258	118	15.1	6.9	54	25	12.3	220	7.2	37	19	9.5	220
1-Apr																																
2-Apr																																
3-Apr																																
TOTAL	6202	5916	232.9	509.3	12873	13408	225.1	492.8	11218	11557	496.8	990	4628	655.7	12208	16185	1152.5	####	544.23	6872	2506	626.5	####	1958	1313	578.3	3760	217.2	969	515	441.0	3500
Week 1	192	202	7.5	16.8	397	437	7.3	16.2	348	379	16.3	1	100	24.5	349	479	40.8	7.1	16.68	210	88	22.5	6.7	54	39	19.7	300	7.0	26	11	16.5	267
Week 2	202	224	7.6	16.8	435	527	7.4	16.1	376	452	16.3	27	209	21.1	404	661	37.3	7.2	18.27	223	94	21.3	6.8	67	45	19.7	287	7.1	35	19	15.3	280
Week 3	217	193	7.4	15.4	377	362	7.2	15.3	335	318	15.3	87	153	16.0	423	471	31.3	6.9	17.42	220	83	19.5	6.7	68	47	17.6	233	6.8	37	22	13.7	240
Week 4	174	146	7.6	17.4	428	487	7.2	16.7	367	405	16.9	24	89	19.7	390	494	36.5	7.0	17.02	244	62	20.6	6.6	65	45	18.1	260	7.0	29	16	13.8	233
Week 5																																
Monthly	200	191	7.5	16.4	415	433	7.3	15.9	362	373	16.0	32	149	21.2	394	522	37.2	7.1	17.56	229	84	20.9	6.7	63	42	18.7	269	7.0	32	17	14.7	250
Min =	105	58	7.2	11	268	114	6.9	11	230	101	10.6	-166	-934	4.4	180	208	19.5	6.2	14.22	145	47	12.7	6.4	44	19	12.3	200	6.4	18	6	9.4	220
Max =	400	316	7.8	22	600	1960	7.7	19	523	1550	19.2	433	689	41.3	780	957	57.3	8.0	27.30	305	118	26.7	7.2	94	67	26.2	340	7.3	48	34	21.7	380
									%Removal						%Removal																	
									94.65	97.08	46.95				95.09	97.92	77.13															

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180 mg/L						160 mg/L						
		Final Settling								Filtrate		
chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
225	7.0	18	5	8	8.6				7.1	76	1400	13.9
210	7.1	38	36	9	10.7	240	1.4	0.840	6.9		1300	786.0
220	7.1	33	11	10	11.0				7.3		1200	204.2
235	7.0	25	8	3	10.8	240			6.7		1500	115.0
215	7.1	31	8	8	7.2				7.1		1700	479.0
210	7.2	34	9	10	8.4	200			7.2	78	1300	356.4
170	7.2	32	6	8	8.3				7.1		1400	390.4
155	6.6	29	7	7	10.3				6.9	86	1300	362.4
150	7.0	38	11	10	13.0	220			7.2		1400	
160	6.9	26	10	4	12.2		5.3	0.892	7.1		1000	
NS	7.1	36	11	9	12.8	300			7.3		800	80.9
180	7.1	27	9	6	10.8				7.3	52	1200	319.0
170	7.2	41	8	8	9.6	180			7.3		1200	29.8
170	ns*	41	19	24	11.9				7.2		1000	201.0
175	7.0	24	8	16	4.3		4.8	0.570	7.2	730	1400	250.0
170	7.3	26	8	10	6.4	180	4.8	0.740	7.1		1400	378.0
160	6.7	23	10	5	8.0				6.9		900	275.6
165	6.9	28	7	8	7.7	180			6.8		1300	100.2
185	6.6	28	12	11	7.6				6.8	56	1100	187.6
180	7.1	31	11	9	9.6	200			7.1		1100	248.5
155	7.0	30	8	13	9.7				7.2		900	302.0
140	6.8	34	31	12	8.6				7.2	225	1400	238.0
150	6.8	24	12	13	11.0	220	5.9	0.700	6.8		1100	132.5
175	6.8	17	8	10	8.9				7.1		800	166.5
155	6.8	28	13	7	5.7	180			7.0		1000	125.2
150	7.0	29	12	12	8.2				7.0	55	900	13.8
165	7.0	26	11	7	5.8	200			7.1		1200	548.0
150	7.3	22	9	11	3.9				7.2		1300	161.0
120	7.2	15	12	10	4.8				7.1	147	1900	223.0
145	7.0	27	11	5	8.2	200			7.4		1100	496.0
150	7.4	52	18	15	10.6		5.0	0.884	7.3	92	1000	252.0
165	7.1	28	11	11	4.6	200			7.1		1200	282.5
5100	210.5	923	365	301	270.8	2940	27.2	4.626	219.7	1521	37300	7704.5
202	7.0	32	12	8	9.5	227	1.4	0.840	7.0	82	1386	384.8
168	7.0	33	11	11	10.7	233	5.1	0.731	7.2	391	1143	176.1
165	6.9	29	12	10	8.2	187	4.8	0.740	7.0	141	1157	247.1
152	7.0	23	11	10	6.9	200	5.9	0.700	7.0	101	1171	195.7
170	7.0	30	12	10	8.7	210	4.5	0.771	7.1	169	1203	265.7
120	6.6	15	6	3	3.9	180	1.4	0.570	6.7	52	800	13.8
235	7.4	52	36	24	13.0	300	5.9	0.892	7.4	730	1900	786.0

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	Flow (MGD)												On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
28-Feb	12.460	2.532	0.627	3.900	OOS	16.360	19.410	4.660	5.810	0.608	28.484	35.513						
1-Mar	12.750	2.294	0.652	3.900	OOS	16.650	19.310	3.450	5.310	0.616	20.721	31.892						
2-Mar	12.890	2.590	0.660	3.890	OOS	16.780	19.540	4.250	4.500	0.726	25.328	26.818						
3-Mar	12.100	2.520	0.660	4.190	OOS	16.290	20.650	1.690	4.790	0.507	10.374	29.405						
4-Mar	13.100	2.452	0.686	4.130	OOS	17.230	19.970	0.510	4.730	0.580	2.960	27.452						
5-Mar	13.400	2.415	0.593	3.870	OOS	17.270	18.830	0.740	4.850	0.726	4.285	28.083						
6-Mar	12.000	2.482	0.531	3.980	OOS	15.980	18.530	1.380	4.860	0.712	8.636	30.413						
7-Mar	12.400	2.684	0.641	4.190	OOS	16.590	19.230	6.900	4.880	0.596	41.591	29.415						
8-Mar	12.000	2.492	0.621	3.970	OOS	15.970	18.770	8.830	4.820	0.763	55.291	30.182						
9-Mar	11.810	2.401	0.637	3.820	OOS	15.630	17.920	7.310	4.900	0.742	46.769	31.350						
10-Mar	10.540	2.369	0.633	3.680	OOS	14.220	17.980	2.440	4.990	0.558	17.159	35.091						
11-Mar	11.400	2.396	0.591	3.700	OOS	15.100	18.240	2.710	5.020	0.693	17.947	33.245						
12-Mar	13.050	2.436	0.571	3.680	OOS	16.730	18.980	2.840	4.850	0.242	16.975	28.990						
13-Mar	19.510	4.865	0.693	7.790	OOS	27.300	[illegible]	1.570	0.760	0.454	5.751	2.784	03:00	12:00				
14-Mar	16.420	3.917	0.681	6.490	OOS	22.910	22.910	6.730	2.620	0.743	29.376	11.436						
15-Mar	14.920	3.393	0.727	5.510	OOS	20.430	24.690	0.590	7.290	0.492	2.888	35.683						
16-Mar	13.700	2.972	0.654	4.930	OOS	18.630	21.840	0.590	7.390	0.595	3.167	39.667						
17-Mar	12.000	2.806	0.714	4.660	OOS	16.660	20.910	1.000	7.520	0.425	6.002	45.138						
18-Mar	12.700	2.899	0.661	4.420	OOS	17.120	19.660	1.150	7.300	0.550	6.717	42.640						
19-Mar	13.000	2.607	0.628	4.110	OOS	17.110	18.520	1.420	7.330	0.560	8.299	42.840						
20-Mar	11.800	2.540	0.583	4.010	OOS	15.810	18.280	0.570	7.200	0.340	3.605	45.541						
21-Mar	12.070	2.646	0.669	4.080	OOS	16.150	18.810	0.980	7.070	0.397	6.068	43.777						
22-Mar	15.310	2.806	0.757	4.850	OOS	20.160	24.620	2.730	5.160	0.638	13.542	25.595						
23-Mar	12.990	2.617	0.643	4.310	OOS	17.300	20.780	0.260	8.250	0.686	1.503	47.688						
24-Mar	11.500	2.341	0.634	3.940	OOS	15.440	18.760	1.900	7.350	0.589	12.306	47.604						
25-Mar	12.280	2.538	0.682	4.020	OOS	16.300	19.540	2.230	4.780	0.466	13.681	29.325						
26-Mar	12.800	2.178	0.580	3.700	OOS	16.500	17.400	3.170	5.090	0.308	19.212	30.848						
27-Mar	11.650	2.252	0.559	3.670	OOS	15.320	16.950	2.730	5.110	0.310	17.820	33.355						
28-Mar	13.750	2.859	0.711	4.340	OOS	18.090	21.600	2.860	5.050	0.752	15.810	27.916						
29-Mar	13.000	2.373	0.681	4.040	OOS	17.040	20.440	3.040	5.130	0.911	17.840	30.106						
30-Mar	16.950	3.754	0.802	5.770	OOS	22.720	[illegible]	1.480	2.560	1.143	6.514	11.268						
31-Mar	13.980	2.775	0.696	4.820	OOS	18.800	23.060	4.060	7.490	0.867	21.596	39.840						
1-Apr				4.380	OOS		20.260											
2-Apr				4.090	OOS		19.270											
3-Apr				4.100	OOS		19.060											
Total	407.770	84.669	20.231	149.030	0.000	544.230	685.330	82.110	168.950	18.687	479.734	995.39						
Week 1	12.663	2.491	0.632	4.021	#DIV/0!	16.684	19.437	2.703	4.846	0.638	16.271	29.07						
Week 2	13.533	2.982	0.632	4.733	#DIV/0!	18.266	20.300	4.633	3.994	0.599	27.038	24.73						
Week 3	12.884	2.838	0.662	4.531	#DIV/0!	17.416	20.387	0.900	7.300	0.480	5.250	42.18						
Week 4	12.897	2.513	0.652	4.119	#DIV/0!	17.016	19.950	2.269	5.827	0.536	13.410	34.62						
Week 5																		
Monthly	13.154	2.731	0.653	4.402	#DIV/0!	17.556	20.217	2.649	5.450	0.603	15.475	32.11						
Min =	10.540	2.178	0.531	3.670	0.000	14.220	16.950	0.260	0.760	0.242	1.503	2.78						
Max =	19.510	4.865	0.802	7.790	0.000	27.300	27.300	8.830	8.250	1.143	55.291	47.69						

[illegible] Influent flow used due to inaccuracy of effluent flow metering over 25 MGD

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City of Reading Wastewater Treatment Plant - Digester Data

	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
28-Feb															
1-Mar	7.0	519	2680	7.0	48.00	1140	7.1	98	3940	7.6	112	700	7.7	53	4160
2-Mar															
3-Mar	7.0		3120	7.0		4120	7.1		4140	oos	oos	oos	7.5		4320
4-Mar															
5-Mar	7.0	332	3300	7.0	346	4000	7.1	56	4600	oos	oos	oos	7.6	82	4220
6-Mar															
7-Mar															
8-Mar	7.1	448	3200	7.1	87	4040	7.4	56	4400	oos	oos	oos	7.2	93	4100
9-Mar															
10-Mar	6.7		3380	7.0		4000	7.1		4620	oos		oos	7.6		4100
11-Mar															
12-Mar	7.1	265	4040	7.2	101	3880	7.2	93	4500	oos	oos	oos	7.6	59	4140
13-Mar															
14-Mar															
15-Mar	6.9			7.1	37	4220	7.2	62	4700	oos	oos	oos	7.7	16	4180
16-Mar															
17-Mar	7.0		4320	7.1		4260	7.2		4320	oos	oos	oos	7.6		4280
18-Mar															
19-Mar	7.1	141	4240	7.2	70	4120	7.3	141	4160	oos	oos	oos	7.6	189	4220
20-Mar															
21-Mar															
22-Mar	6.9	115	3580	7.1	59	4000	7.2	85	4460	oos	oos	oos	7.6	42	4000
23-Mar															
24-Mar	7.1		3780	7.1		3740	7.1		4140	oos	oos	oos	7.6		4060
25-Mar															
26-Mar	7.0	54	3600	7.0	391	3660	7.1	130	4060	oos	oos	oos	7.5	70	3960
27-Mar															
28-Mar															
29-Mar	6.9	315	2780	7.0	51	3740	7.1	141	4100	oos	oos	oos	7.6	82	4160
30-Mar															
31-Mar	7.0	42	3700	7.0	690	3640	7.1	535	3600	oos	oos	oos	7.6	239	4140
1-Apr															
2-Apr															
3-Apr															
Total	97.6	2231	45720	98.9	1880	52560	100.4	1397	59740	7.6	112	700	105.9	925	58040
Week 1	7.0	426	3033	7.0	197	3087	7.1	77	4227	7.6	112	700	7.6	68	4233
Week 2	6.9	357	3540	7.1	94	3973	7.3	75	4507	#DIV/0!	#DIV/0!	#DIV/0!	7.5	76	4113
Week 3	7.0	141	4280	7.1	54	4200	7.2	102	4393	#DIV/0!	#DIV/0!	#DIV/0!	7.6	103	4227
Week 4	7.0	85	3653	7.1	225	3800	7.2	108	4220	#DIV/0!	#DIV/0!	#DIV/0!	7.6	56	4007
Week 5															
Monthly	7.0	247.9	3516.9	7.1	188.0	3754.3	7.2	139.7	4267.1	7.6	112.0	700.0	7.6	92.5	4145.7
Min =	6.7	42	2680	7.0	37	1140	7.1	56	3600	7.6	112	700	7.2	16	3960
Max =	7.1	519	4320	7.2	690	4260	7.4	535	4700	7.6	112	700	7.7	239	4320

Print Date: 4/16/2010

Dissolved Oxygen -March 2010

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
3/1/2010	8.0	8.1	7.9	8.6	8.4	8.4	8.6	7.9	
3/2/2010	8.6	8.6	8.5	8.5	8.6	7.9	8.4	7.9	
3/3/2010	8.2	8.1	7.8	8.5	8.2	8.3	8.3	7.8	
3/4/2010	8.6	8.7	8.4	8.6	8.5	8.1	8.0	8.0	
3/5/2010	8.3	8.2	8.2	8.2	8.2	8.1	8.6	8.1	
3/6/2010	8.2	8.2	8.3	8.4	8.1	8.0	8.7	8.0	
3/7/2010	8.1	8.1	8.1	8.1	8.0	7.8	8.7	7.8	
3/8/2010	8.0	8.0	7.9	7.9	7.9	7.7	8.7	7.7	
3/9/2010	7.8	7.8	7.6	7.9	7.7	7.5	8.0	7.5	
3/10/2010	7.8	7.7	7.7	7.8	7.7	7.6	7.9	7.6	
3/11/2010	7.7	7.6	7.6	7.8	7.6	7.4	8.1	7.4	
3/12/2010	7.5	7.4	7.5	7.6	7.6	7.5	8.2	7.4	
3/13/2010	7.5	6.8	6.0	6.7	6.6	5.9	9.9	5.9	
3/14/2010	6.3	6.9	7.6	7.9	7.8	7.6	8.0	6.3	
3/15/2010	7.6	7.6	7.6	7.7	7.5	7.6	8.3	7.5	
3/16/2010	7.8	7.7	7.6	7.7	7.6	7.3	8.5	7.3	
3/17/2010	7.7	7.7	7.6	7.7	7.6	7.5	8.2	7.5	
3/18/2010	7.6	7.6	7.5	7.7	7.4	7.0	8.0	7.0	
3/19/2010	7.2	7.2	7.2	7.4	7.5	7.4	7.4	7.2	
3/20/2010	7.6	7.3	7.2	7.1	7.1	7.2	7.7	7.1	
3/21/2010	7.2	7.3	6.9	7.0	6.9	6.8	7.9	6.8	
3/22/2010	7.2	6.9	6.7	6.8	6.6	6.0	7.4	6.0	
3/23/2010	6.5	6.6	6.7	6.8	7.1	7.3	6.9	6.5	
3/24/2010	7.4	7.4	7.5	7.5	7.6	7.4	7.7	7.4	
3/25/2010	7.5	7.5	7.6	7.5	7.3	7.2	7.8	7.2	
3/26/2010	7.4	7.2	7.2	7.6	7.6	7.9	7.4	7.2	
3/27/2010	8.0	8.0	8.0	8.5	8.1	7.8	8.5	7.8	
3/28/2010	7.8	8.0	8.1	8.4	8.0	7.8	8.5	7.8	
3/29/2010	7.3	7.3	7.2	7.6	7.6	7.3	7.4	7.2	
3/30/2010	7.4	7.5	7.6	7.6	7.4	7.0	7.7	7.0	
3/31/2010	7.2	7.2	7.6	7.6	7.5	7.4	7.8	7.2	
Min	6.30	6.60	6.00	6.70	6.60	5.90	6.9	Min	5.90
Max	8.60	8.70	8.50	8.60	8.60	8.40	9.9	Max	8.10
								Avg	7.32

March 2010
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Mar	0.01	0.02	0.00	0.02	0.01	0.02	0.01	
2-Mar	0.05	0.02	0.04	0.03	0.02	0.02	0.03	
3-Mar	0.01	0.02	0.01	0.01	0.01	0.02	0.01	
4-Mar	0.02	0.03	0.01	0.00	0.01	0.02	0.02	
5-Mar	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
6-Mar	0.02	0.03	0.02	0.02	0.02	0.02	0.02	
7-Mar	0.02	0.03	0.03	0.02	0.03	0.04	0.03	
8-Mar	0.02	0.02	0.03	0.02	0.03	0.05	0.03	
9-Mar	0.03	0.02	0.02	0.03	0.03	0.03	0.03	
10-Mar	0.03	0.02	0.04	0.03	0.02	0.04	0.03	
11-Mar	0.02	0.02	0.03	0.02	0.01	0.04	0.02	
12-Mar	0.04	0.03	0.05	0.01	0.02	0.01	0.03	
13-Mar	0.02	0.02	0.00	0.01	0.01	0.00	0.01	
14-Mar	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
15-Mar	0.00	0.01	0.00	0.00	0.01	0.00	0.00	
16-Mar	0.00	0.02	0.02	0.02	0.02	0.19	0.05	
17-Mar	0.02	0.01	0.02	0.02	0.03	0.01	0.02	
18-Mar	0.03	0.02	0.02	0.02	0.02	0.02	0.02	
19-Mar	0.00	0.02	0.04	0.02	0.02	0.02	0.02	
20-Mar	0.02	0.02	0.03	0.02	0.03	0.03	0.03	
21-Mar	0.02	0.02	0.03	0.02	0.02	0.04	0.03	
22-Mar	0.02	0.03	0.02	0.02	0.00	0.01	0.02	
23-Mar	0.01	0.02	0.02	0.02	0.02	0.03	0.02	
24-Mar	0.03	0.03	0.03	0.03	0.03	0.02	0.03	
25-Mar	0.03	0.02	0.02	0.04	0.04	0.05	0.03	
26-Mar	0.05	0.02	0.02	0.02	0.02	0.02	0.03	
27-Mar	0.01	0.02	0.02	0.02	0.01	0.01	0.02	
28-Mar	0.01	0.02	0.02	0.02	0.01	0.02	0.02	
29-Mar	0.01	0.02	0.02	0.02	0.00	0.02	0.02	
30-Mar	0.00	0.01	0.03	0.03	0.03	0.01	0.02	
31-Mar	0.01	0.02	0.01	0.02	0.00	0.01	0.01	
Average	0.02	0.02	0.02	0.02	0.02	0.03	0.02	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.05	0.03	0.05	0.04	0.04	0.19		

Discharge Monitoring Report Supplemental Bio-Solids Report ***for the Month*** March 2010

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 18.24	X 0.01	= 0.00
0.00	X 18.24	X 0.01	= 0.00
0.00	X 18.24	X 0.01	= 0.00
1,169.30	X 18.24	X 0.01	= 213.28
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 213.28

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	213.28
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Deborah [signature]
Signature

Utilities Manager
Title

610-655-6258
Telephone

04/19/2010
Date

City of Reading 3-C Watershed *for the Month* March 2010

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

RECEIVED
EPA REGION III
MAR 26 2010
WATER PROTECTION DIVISION (3WP00)

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	02/01/2010	TO	02/28/2010

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	55	******		0	Daily	COMP24
00080 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	7.6	******	******		0	7/Daily	GRAB
00300 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.2	******	7.8		0	Daily	GRAB
00400 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1267	1704		******	9	10		0	Daily	COMP24
00530 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	1525	******		******	10.7	******		0	Daily	COMP24
00610 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	17.13	23.97		******	******	******	******	0	Continuous	MEASRD
50050 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.01	******		0	2/Shift	GRAB
50060 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Deborah A.S. Hoag, P.E. Utilities Division Mngr	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Deborah A.S. Hoag	610-655-6258		03/22/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	02/01/2010	TO	02/28/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01034	******		******	<0.00007	******		0	Weekly	COMP24
71900 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	2	******		0	Daily	GRAB
74055 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1218	1479		******	9	11		0	Daily	COMP24
80082 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Deborah A.S. Hoag, P.E. Utilities Division Mngr	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Deborah A.S. Hoag	610-655-6258		03/22/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

City of Reading Wastewater Treatment Plant

	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	Inches	(°F)	(°F)
31-Jan	13.7	20	13	10		16.84									
1-Feb	11.0	23	13	9	8.8	16.34	8.5	7.2	0.55		1	60	0.00	18	34
2-Feb	13.6	20	11	11	10.5	16.24	8.4	7.5	0.26		2	50	0.00	17	33
3-Feb	13.7	17	12	10	14.5	16.72	8.3	7.4	0.52		1	60	0.12	27	39
4-Feb	12.3	19	8	6	8.6	15.49	8.4	7.5	0.37		1	70	0.00	26	41
5-Feb	13.8	20	9	7	13.5	15.14	8.4	7.4	0.34		4	60	0.56	25	38
6-Feb	9.4	25	11	8	12.8	15.47	8.4	7.2	0.37		3	60	0.09	19	32
7-Feb	10.1	19	9	8	11.4	16.52	8.5	7.3	0.42		1	60	0.02	15	33
8-Feb	12.1	20	9	7	8.2	15.67	8.4	7.4	0.47		3	50	0.00	18	37
9-Feb	12.0	19	10	7	9.7	15.58	8.2	7.2	0.40		2	50	0.38	15	41
10-Feb	11.8	19	10	9	10.7	14.87	8.0	7.5	0.39		3	60	0.87	24	31
11-Feb	12.4	25	9	11	10.0	15.59	8.3	7.8	0.26		4	42	0.00	25	40
12-Feb	11.6	20	6	7	11.2	15.51	8.5	7.3	0.42		3	42	0.01	17	41
13-Feb	10.1	23	7	9	12.8	15.29	8.4	7.2	0.62		1	42	0.00	17	33
14-Feb	10.5	22	10	17	10.1	15.44	8.2	7.2	0.56		1	50	0.02	24	35
15-Feb	12.1	20	9	6	12.3	16.61	8.1	7.3	0.59		1	60	0.00	20	44
16-Feb	11.7	20	9	8	12.6	16.07	8.1	7.4	0.43		4	60	0.02	26	37
17-Feb	12.2	21	7	8	12.3	15.70	8.2	7.5	0.47		3	50	0.00	22	36
18-Feb	12.8	24	9	8	14.6	16.60	8.0	7.3	0.55		1	60	0.00	30	46
19-Feb	11.8	20	9	4	12.8	17.14	8.1	7.3	0.67		1	70	0.00	35	46
20-Feb	14.3	18	7	9	9.2	17.02	8.1	7.4	0.58		1	60	0.00	31	43
21-Feb	13.1	17	8	12	7.9	17.36	8.2	7.3	0.72		1	60	0.00	26	49
22-Feb	13.4	20	4	6	8.0	18.27	8.1	7.4	0.61		1	50	0.10	22	39
23-Feb	13.6	22	9	13	13.2	23.97	7.6	7.4	0.82		1	50	0.47	33	38
24-Feb	10.9	18	7	4	9.6	23.01	7.7	7.5	1.10		1	50	0.04	35	45
25-Feb	14.3	19	6	14	10.3	21.24	7.8	7.2	0.81		1	50	0.67	24	37
26-Feb	11.7	20	7	12	9.1	19.08	8.3	7.3	0.88		1	60	0.17	23	35
27-Feb	12.4	16	7	10	8.0	18.23	8.3	7.3	0.71		3	60	0.01	26	43
28-Feb	12.0	17	9	7	7.4	19.41	7.7	7.4	0.77		2	42	0.00	30	46

2/4 - Effluent composite was only 21 hours due to heat tape shorted and melted tubing together prohibiting sampling. Issue was caught and the history showed 2 hours and 51 minutes with no sample.

2/14 - Effluent was a composite of two bottles due to liquid sensor being loose. No sample was detected taking higher volumes of sample filling the bottle. Issue was discovered and bottle was replaced and sensor was fixed. Flow proportional composite was calculated next day for a representative sample.

TOTAL		563	241	247	299.9	479.6	####	205.9	15.66			1538	3.55		
Week 1	12.0	21	11	9	11.4	15.99	8.40	7.36	0.40		2	60	0.11	21	36
Week 2	11.5	21	9	8	10.4	15.42	8.28	7.36	0.45		2	48	0.18	20	37
Week 3	12.6	21	9	9	11.7	16.64	8.11	7.33	0.57		2	60	0.00	27	43
Week 4	12.6	19	7	10	9.4	20.46	7.93	7.36	0.81		1	52	0.21	28	40
Monthly	12.2	20	9	9	10.7	17.13	8.18	7.35	0.56		2	55	0.13	24	39
						See DO profile					<				
Min =	9.4	16	4	4	7.4	14.87	7.6	7.2	0.26		1	42	0.00	15	31
Max =	14.3	25	13	17	14.6	23.97	8.5	7.8	1.10		4	70	0.87	35	49

Weekly Averages: 1/31 - 2/6, 2/7 - 2/13, 2/14 - 2/20, 2/21 - 2/27. 2/28 included in the March report.

DISCHARGE LIMITATIONS												Highlighted averages adjusted as stated above.
Ave Monthly:		25	30	18		Min	6.0			10000	186	Rain totals taken from
Ave Weekly:		40	45			of	to					weather.com for local area
Inst. Max:		50	60	24		5.0	9.0				465	19607.

Print Date: 3/18/2010

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
31-Jan	6,218	42,237	48,455	-1,761		46,694	2,809	1,826	6,475	23,038	29,513	76,699	106,212	1,404		724	2,534	3259	2,706	0	5,964	0
1-Feb	4,041	53,354	57,395	-16,008	309	41,387	3,134	1,772	2,532	31,921	34,453	6,459	40,911	1,226	4,879	611	1,766	2378	1,297	1,035	3,675	1,201
2-Feb	4,836	48,399	53,235	-14,445		38,790	2,709	1,490	4,634	41,697	46,332	33,376	79,708	1,490	6,986	501	1,415	1,916	3,276	1,467	5,192	1,422
3-Feb	7,240	56,979	64,219	-12,650		51,570	2,371	1,673	6,047	44,836	50,883	-5,789	45,093	1,394	6,321	618	1,971	2,589	2,124	2,327	4,713	2,022
4-Feb	5,805	45,036	50,841	18,215	447	69,055	2,455	1,033	5,254	20,717	25,971	54,133	80,104	775	5,715	600	1,910	2,510	2,393	2,598	4,903	1,105
5-Feb	9,140	41,158	50,298	-12,556		37,742	2,525	1,136	8,484	30,650	39,133	3,715	42,848	884	6,340	666	1,760	2,426	2,359	2,953	4,784	1,705
6-Feb	7,317	39,782	47,098	-8,479		38,619	3,225	1,419	6,102	23,162	29,263	13,012	42,275	1,032	3,550	783	2,449	3,232	1,612	755	4,845	1,651
7-Feb	7,082	45,636	52,718	-8,739	370	43,980	2,618	1,240	5,832	26,621	32,453	8,332	40,786	1,102	3,703	750	2,282	3,032	150	901	3,182	1,571
8-Feb	7,833	45,870	53,703	-6,632		47,071	2,614	1,176	5,343	28,256	33,599	15,590	49,189	915	4,794	711	2,238	2,949	887	503	3,836	1,077
9-Feb	5,137	42,460	47,597	-13,496		34,101	2,469	1,299	3,363	21,317	24,679	16,242	40,922	910	3,945	511	1,984	2,496	1,739	470	4,235	1,254
10-Feb	7,599	44,322	51,922	-12,975		38,946	2,356	1,240	6,191	28,127	34,319	-3,980	30,339	1,116	1,121	599	1,739	2,338	8	101	2,345	1,327
11-Feb	5,942	34,188	40,130	-14,390	108	25,740	3,251	1,170	6,513	26,397	32,910	23,187	56,097	1,430	2,352	483	1,604	2,087	1,261	49	3,347	1,295
12-Feb	5,544	33,827	39,371	-577		38,794	2,587	776	3,856	17,607	21,464	26,862	48,326	905	7,472	631	2,012	2,644	2,699	959	5,342	1,449
13-Feb	5,468	33,594	39,061	-780		38,281	2,933	893	5,145	23,869	29,014	9,947	38,960	1,148	2,312	539	1,635	2,175	623	106	2,797	1,632
14-Feb	6,624	36,779	43,404	-3,939		39,465	2,833	1,288	6,800	21,017	27,817	27,659	55,476	2,189	3,728	572	1,734	2,306	1,979	59	4,285	1,301
15-Feb	4,072	44,686	48,758	47,106		95,864	2,771	1,247	2,102	20,917	23,018	95,902	118,920	831	6,522	623	1,959	2,581	3,996	331	6,577	1,704
16-Feb	6,563	37,271	43,834	376	461	44,210	2,680	1,206	6,156	28,363	34,518	11,553	46,072	1,072	5,464	590	1,782	2,372	3,469	562	5,840	1,689
17-Feb	5,955	37,480	43,435	-17		43,418	2,750	917	4,904	21,417	26,321	49,318	75,639	1,048	4,303	480	1,365	1,846	3,182	445	5,027	1,611
18-Feb	8,380	40,596	48,976	-5,320	180	43,656	3,323	1,246	6,547	24,169	30,716	21,382	52,098	1,108	4,512	568	1,832	2,400	2,943	256	5,342	2,021
19-Feb	7,518		7,518	33,804		41,322	2,859	1,287	6,108		6,108	32,130	38,238	572	4,083	386		386	4,153	115	4,539	1,830
20-Feb	6,215	44,451	50,666	-15,402		35,263	2,555	994	5,756	31,210	36,966	14,105	51,071	1,278	2,085	516	2,118	2,635	490	47	3,125	1,303
21-Feb	6,217	44,511	50,728	-3,330	29	47,398	2,461	1,158	4,758	23,739	28,497	40,678	69,175	1,737	1,468	616	1,761	2,377	416	23	2,793	1,144
22-Feb	2,836	20,466	23,302	-10,233		13,069	3,047	609	4,991	26,606	31,597	21,462	53,059	914	9,965	627	1,852	2,479	3,663	591	6,142	1,220
23-Feb	6,740	44,986	51,726	5,791		57,517	4,398	1,799	5,917	28,698	34,615	24,070	58,684	2,599	5,017	502	1,603	2,105	4,897	456	7,002	2,639
24-Feb	6,363	39,842	46,205	-3,271		42,934	3,454	1,343	6,691	22,798	29,489	27,854	57,343	768	4,911	691	1,660	2,351	3,677	1,740	6,028	1,842
25-Feb	6,215	45,712	51,927	-9,953	352	41,974	3,366	1,063	5,732	29,023	34,755	-6,461	28,293	2,480	5,871	621	1,766	2,387	4,406	1,556	6,793	1,825
26-Feb	4,523	46,517	51,040	8,578		59,618	3,183	1,114	2,371	22,373	24,743	42,824	67,567	1,910	4,003	536	1,617	2,154	2,474	2,058	4,627	1,443
27-Feb	6,288	52,317	58,604	-14,209		44,395	2,433	1,064	5,449	24,620	30,069	21,085	51,154	1,520	5,990	533	1,580	2,113	3,718	1,072	5,831	1,209
28-Feb	12,685	36,371	49,056	-21,085	385	27,971	2,752	1,457	5,790	20,783	26,573	-12,110	14,463	1,133	7,099	667	1,829	2,496	1,775	70	4,271	1,200
TOTAL	180,177	1,136,588	1,316,766	-94,617	2,643	1,222,148	80,110	34,110	149,365	710,909	860,274	612,537	1,472,811	35,486	134,512	16,533	49,222	65,755	65,667	23,606	131,422	42,689
Week 1	6,494	47,192	53,686	-7,809	375	45,877	2,747	1,479	5,555	31,372	36,927	16,177	53,104	1,172	5,356	647	1,936	2,583	1,887	1,719	4,470	1,525
Week 2	6,307	38,720	45,027	-7,541	108	37,485	2,690	1,114	5,316	23,799	29,115	16,501	45,616	1,075	3,675	578	1,850	2,428	1,314	321	3,741	1,333
Week 3	6,417	41,499	41,988	8,174	224	50,162	2,824	1,169	5,190	24,969	26,592	37,867	64,459	1,157	4,063	540	1,803	2,085	2,664	254	4,749	1,614
Week 4	6,521	40,887	47,409	-6,340	369	41,068	3,192	1,164	5,277	24,986	30,263	16,960	47,223	1,704	6,122	597	1,701	2,298	3,516	1,078	5,814	1,625
Monthly	6,435	42,096	47,027	-3,379	294	43,648	2,861	1,218	5,334	26,330	30,724	21,876	52,600	1,267	4,804	590	1,823	2,348	2,345	843	4,694	1,525
Min =	2836	20466	7518	-21085	29	13,069	2,356	609	2,102	17,607	6,108	-12,110	14,463	572	1,121	386	1,365	386	8	23	2,345	1,077
Max =	12685	56979	64219	47106	461	95,864	4,398	1,799	8,484	44,836	50,883	95,902	118,920	2,599	9,965	783	2,449	3,232	4,897	2,953	7,002	2,639
								4,170						7,130								3,000
								6,255						10,696								

Print Date: 3/18/2010

	GC Mercury (Hg)			6th St Mercury (Hg)			Inf. Mercury (Hg)			Eff. Mercury (Hg)		
DATE	mg/L	lbs/day		mg/L	lbs/day		mg/L	lbs/day		mg/L		lbs/day
31-Jan												
1-Feb												
2-Feb	0.00070	0.01763	<	0.00007	< 0.00652		0.00040	# 0.04730	<	0.00007	<	0.00948
3-Feb	0.00008	0.00212	<	0.00007	< 0.00654		0.00060	0.07196	<	0.00007	<	0.00976
4-Feb												
5-Feb												
6-Feb												
7-Feb												
8-Feb												
9-Feb	0.00007	0.00163		0.00020	0.01733		0.00020	0.02200	<	0.00007	<	0.00910
10-Feb												
11-Feb												
12-Feb												
13-Feb												
14-Feb												
15-Feb												
16-Feb	0.00030	0.00763		0.00009	0.00818		0.00030	0.03490	<	0.00007	<	0.00938
17-Feb												
18-Feb												
19-Feb												
20-Feb												
21-Feb												
22-Feb												
23-Feb	0.00010	0.00374		0.00010	0.01293		0.00030	0.05001	<	0.00007	<	0.01399
24-Feb												
25-Feb												
26-Feb												
27-Feb												
28-Feb												
Total	0.00125	0.03276		0.00053	0.05149		0.00180	0.22618		0.00035		0.05171
Week 1	0.00039	0.00988	<	0.00007	< 0.00653		0.00050	0.05963	<	0.00007	<	0.00962
Week 2	0.00007	0.00163		0.00020	0.01733		0.00020	0.02200	<	0.00007	<	0.00910
Week 3	0.00030	0.00763		0.00009	0.00818		0.00030	0.03490	<	0.00007	<	0.00938
Week 4	0.00010	0.00374		0.00010	0.01293		0.00030	0.05001	<	0.00007	<	0.01399
Monthly	0.00025	0.00655	<	0.00011	< 0.01030		0.00036	0.04524	<	0.00007	<	0.01034
Min =	0.00007	0.00163	<	0.00007	< 0.00652		0.00020	0.02200	<	0.00007	<	0.00910
Max =	0.00070	0.01763		0.00020	0.01733		0.00060	0.07196	<	0.00007	<	0.01399
										0.00023		0.055
										0.00046		

Print Date: 3/18/2010

City of Reading Wastewater Treatment Plant

Laboratory Process Control Data

	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent				Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
31-Jan	218	227	7.3	25.4	440	240	7.3	26.4	389	237	26.2	-14	616	21.7	375	853	47.9	6.9	14.93	205	80	26.6	6.4	39	24	17.2		7.1	33	23	13.3	
1-Feb	150	94	8.5	22.7	580	347	7.3	19.2	483	290	20.0	-135	54	10.9	348	344	30.9	6.6	14.26	235	70	17.9	6.5	69	52	17.5	280	6.8	31	15	13.4	260
2-Feb	192	184	6.6	19.9	520	448	6.8	15.2	450	392	16.2	-122	282	27.7	328	674	43.9	6.9	14.18	220	76	25.9	6.3	63	44	21.4		6.7	33	19	19.4	
3-Feb	273	228	7.6	23.3	610	480	7.2	21.1	535	424	21.6	-105	-48	17.7	430	376	39.3	7.1	14.38	225	91	24.8	6.7	58	45	23.6	200	7.0	35	19	16.2	200
4-Feb	232	210	7.7	24.0	500	230	7.0	21.2	442	226	21.8	158	470	20.8	600	696	42.6	6.9	13.80	250	70	26.6	6.5	51	31	24.2		7.0	33	11	20.7	
5-Feb	390	362	7.5	28.4	470	350	7.1	20.1	453	353	21.9	-113	33	21.2	340	386	43.1	7.0	13.31	252	102	29.0	6.5	69	51	24.8	240	6.8	35	23	22.5	300
6-Feb	283	236	7.5	30.3	450	262	7.1	27.7	412	256	28.3	-74	114	14.1	338	370	42.4	6.6	13.70	235	92	28.5	6.3	65	24	24.8		6.4	34	20	21.1	
7-Feb	255	210	7.5	27.0	480	280	7.3	24.0	429	264	24.7	-71	68	1.2	358	332	25.9	7.1	14.73	242	81	23.1	6.5	77	50	24.4		7.1	29	14	22.7	
8-Feb	302	206	7.5	27.4	500	308	7.3	24.4	456	286	25.1	-56	132	7.5	400	418	32.6	7.0	14.11	282	91	23.9	6.8	63	37	21.5	280	7.3	39	17	17.3	200
9-Feb	220	144	7.6	21.9	490	246	7.5	22.9	433	224	22.7	-123	148	15.8	310	372	38.5	7.1	13.19	230	111	22.9	6.9	70	44	18.8		7.1	37	20	16.0	
10-Feb	340	277	7.0	26.8	520	330	6.9	20.4	483	319	21.7	-121	-37	0.1	362	282	21.8	6.9	12.90	255	69	22.6	6.3	50	18	21.5	300	6.8	40	26	18.8	280
11-Feb	250	274	7.7	20.3	373	288	7.5	17.5	348	285	18.1	-125	201	10.9	223	486	29.0	6.9	13.84	197	75	20.7	6.5	36	14	20.5		6.9	64	14	17.2	
12-Feb	230	160	7.4	26.2	390	203	7.0	23.2	355	194	23.9	-5	242	24.3	350	436	48.2	6.5	13.29	190	108	24.5	6.5	52	29	26.7	220	7.0	26	12	22.5	260
13-Feb	220	207	7.1	21.7	380	270	7.2	18.5	345	256	19.2	-7	88	5.5	338	344	24.7	7.2	13.58	190	66	20.9	6.8	53	35	20.2		7.4	25	13	18.3	
14-Feb	263	270	8.0	22.7	420	240	7.5	19.8	385	247	20.4	-35	245	17.6	350	492	38.0	6.9	13.52	225	86	22.8	6.5	54	55	21.4		7.1	32	15	15.0	
15-Feb	155	80	7.9	23.7	470	220	7.9	20.6	402	190	21.3	388	790	32.9	790	980	54.2	7.3	14.55	255	70	28.9	6.8	78	47	26.0		7.2	28	11	17.2	
16-Feb	258	242	7.3	23.2	410	312	7.1	19.6	377	297	20.4	3	99	29.8	380	396	50.2	6.7	13.95	270	106	27.2	6.4	70	40	24.7		7.0	28	17	20.7	
17-Feb	238	196	7.7	19.2	420	240	7.2	15.3	380	230	16.2	0	432	27.8	380	662	44.0	7.4	13.70	205	106	22.8	6.3	57	43	22.3	220	6.8	34	17	19.4	240
18-Feb	320	250	7.2	21.7	430	256	7.1	19.4	406	255	19.9	-44	177	24.4	362	432	44.3	7.3	14.46	248	125	28.1	6.9	72	47	25.4		7.8	34	22	23.7	
19-Feb	288	234	8.1	14.8	NS	NS	7.5	NS	61	50	3.1	274	260	33.7	335	310	36.8	6.9	14.79	260	76	24.4	6.2	40	24	22.6	300	6.8	23	7	19.3	300
20-Feb	230	213	7.5	19.1	470	330	7.2	22.4	417	304	21.7	-127	116	4.0	290	420	25.7	7.3	14.58	232	87	15.5	6.8	49	29	16.7		7.3	34	17	14.1	
21-Feb	213	163	7.8	21.1	450	240	7.6	17.8	396	222	18.6	-26	318	3.2	370	540	21.8	7.1	15.36	268	108	19.5	7.2	57	41	18.3		7.3	29	16	15.0	
22-Feb	100	176	7.4	22.1	200	260	6.9	18.1	178	242	19.0	-78	164	28.0	100	406	47.0	7.1	15.67	130	84	25.1	6.4	33	33	21.3	240	6.8	33	12	18.8	280
23-Feb	180	158	7.6	13.4	348	222	7.1	12.4	310	208	12.6	35	144	29.4	345	352	42.0	7.1	19.99	220	96	20.1	6.7	58	38	18.5		6.9	48	18	16.3	
24-Feb	175	184	7.5	19.0	360	206	7.2	15.0	314	201	16.0	-22	189	25.0	292	390	41.0	7.5	17.63	190	71	20.4	6.9	54	31	18.1	200	7.0	30	10	15.3	220
25-Feb	180	166	7.4	18.0	378	240	7.3	14.6	334	224	15.4	-64	-42	28.3	270	182	43.7	7.0	18.64	200	82	22.0	6.5	62	43	19.0		6.7	29	17	14.7	
26-Feb	145	76	7.8	17.2	420	202	7.3	14.6	360	174	15.2	60	302	17.4	420	476	32.6	6.7	17.02	242	72	19.4	6.5	55	30	18.6	280	7.1	28	9	15.0	220
27-Feb	210	182	7.6	17.8	510	240	7.5	15.4	442	227	15.9	-107	159	28.1	335	386	44.0	6.9	15.89	233	101	19.7	6.8	53	35	18.2		7.1	26	10	15.0	
28-Feb	390	178	7.3	20.5	350	200	7.7	17.6	360	195	18.3	-155	-89	13.0	205	106	31.3	7.0	16.36	200	80	21.3	6.4	43	27	18.7		7.1	24	17	15.3	
TOTAL	6682	5560	210.9	613.4	11899	7450	203.2	518.0	10745	7032	538.9	-796	5014	520.6	9949	12046	1059.5	####	415.38	6381	2452	648.5	####	1611	1037	599.7	2760.0	196.3	921	438	500.9	2760.0
Week 1	254	218	7.5	25.1	516	342	7.1	21.2	458	315	22.1	-66	139	16.2	392	454	38.3	6.9	14.05	237	83	25.1	6.5	65	42	23.0	240.0	6.8	33	17	19.4	253.3
Week 2	261	220	7.5	23.9	439	269	7.3	21.0	401	259	21.6	-67	146	11.7	333	404	33.3	6.9	13.49	224	87	22.6	6.6	54	33	21.5	266.7	7.1	38	17	17.9	246.7
Week 3	243	197	7.6	20.4	442	266	7.4	19.2	348	221	17.3	67	313	22.3	415	534	39.6	7.1	14.48	248	97	23.8	6.7	60	39	22.3	260.0	7.2	30	15	18.5	270.0
Week 4	197	160	7.5	18.3	367	224	7.3	15.4	328	210	16.0	-47	118	24.2	281	328	40.2	7.0	17.31	202	84	21.1	6.6	51	34	18.9	240.0	7.0	31	13	15.8	240.0
Monthly	239	199	7.5	21.9	441	276	7.3	19.2	384	251	19.2	-28	179	18.6	355	430	37.8	7.0	14.84	228	88	23.2	6.6	58	37	21.4	250.9	7.0	33	16	17.9	250.9
Min =	100	76	6.6	13	200	200	6.8	12	61	50	3.1	-155	-89	0.1	100	106	21.8	6.5	12.90	130	66	15.5	6.2	33	14	16.7	200.0	6.4	23	7	13.4	200.0
Max =	390	362	8.5	30	610	480	7.9	28	535	424	28.3	388	790	33.7	790	980	54.2	7.5	19.99	282	125	29.0	7.2	78	55	26.7	300.0	7.8	64	26	23.7	300.0
									%Removal						%Removal																	
									94.76	96.49	44.34				94.34	97.95	71.69															

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		Final Settling								Filtrate		
chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
130	7.4	27	12	8	9.4				6.8			
130	6.8	22	13	7	9.0	200			6.7	57.0	900	191.0
165	7.0	24	15	7	12.2		8.1	1.610	6.8		1200	252.0
220	7.2	29	13	10	10.8	280			7.1		1100	405.0
215	7.2	21	10	13	14.6				7.0	86.0	1100	500.0
180	7.0	38	13	10	15.3	220			6.8		1400	652.0
175	6.5	30	13	8	14.2				6.5		1100	234.0
215	6.7	26	11	2	14.9				6.7	120.0	1200	292.0
225	7.4	28	12	6	10.2	220			7.4		1200	126.0
215	7.2	32	15	7	9.9		6.9	1.600	7.1		1100	131.0
245	7.1	38	13	9	10.7	260			6.7		1200	108.0
245	6.6	63	20	6	10.6				6.9	55.0	1200	25.2
345	6.9	27	10	4	14.5	260			7.1		1700	218.1
300	7.4	30	9	7	11.9				7.2		900	41.1
220	7.2	24	9	7	10.3				7.1		1000	15.7
215	7.3	34	13	9	14.8				6.9		1000	50.8
220	7.0	34	12	9	13.5		6.1	1.700	6.9	76.0	900	92.6
240	7.3	32	10	10	13.0	200			6.8		1000	103.4
225	7.3	39	11	12	16.3				7.2	40.0	1000	56.8
225	6.7	32	11	5	13.0	240			7.1		1200	33.8
245	7.5	28	9	9	9.0				7.8		1000	22.6
205	7.3	30	11	11	8.3				7.2	20.0	1000	15.8
205	6.7	22	5	15	10.2	200			6.7		2100	124.5
270	7.1	42	12	18	12.6		5.3	0.860	6.9		800	72.7
275	7.1	27	10	7	9.8	200			7.1		800	283.5
265	7.0	25	7	10	10.4				6.8	66.0	1100	291.5
265	7.2	30	8	3	10.5	200			6.7		1500	771.0
260	7.2	38	8	14	9.1				7.1		1900	340.0
225	7.0	18	5	8	8.6				7.1	76.0	1400	13.9
6435.0	197.7	863	308	243	328.2	2480.0	26.4	5.770	195.4	596.0	33000.0	5464.0
185.7	6.9	27	13	8	13.0	233.3	8.1	1.610	6.8	87.7	1142.9	360.9
256.4	7.1	35	13	7	11.2	246.7	6.9	1.600	7.1	55.0	1185.7	95.0
225.0	7.2	33	11	9	12.6	220.0	6.1	1.700	7.1	45.3	1014.3	53.7
252.1	7.0	29	8	11	10.2	200.0	5.3	0.860	6.9	71.0	1371.4	271.0
229.8	7.1	31	11	9	11.7	225.5	6.6	1.443	7.0	66.2	1178.6	195.1
130.0	6.5	18	5	2	8.3	200.0	5.3	0.860	6.5	20.0	800.0	13.9
345.0	7.5	63	20	18	16.3	280.0	8.1	1.700	7.8	120.0	2100.0	771.0

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		Flow (MGD)												On	Off	On	Off	On	Off
DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc		High Flow	High Flow	High Flow	High Flow	High Flow	High Flow
31-Jan	11.510	2.246	0.635	3.420	OOS	14.930	16.840	4.590	6.440	0.544	30.743	43.135							
1-Feb	11.030	2.149	0.621	3.230	OOS	14.260	16.340	4.510	6.390	0.650	31.627	44.811							
2-Feb	11.160	2.016	0.653	3.020	OOS	14.180	16.240	5.380	6.550	0.698	37.941	46.192							
3-Feb	11.200	2.074	0.650	3.180	OOS	14.380	16.720	4.130	6.240	0.689	28.720	43.394							
4-Feb	10.800	1.875	0.604	3.000	OOS	13.800	15.490	5.170	6.400	0.623	37.464	46.377							
5-Feb	10.500	1.727	0.504	2.810	OOS	13.310	15.140	6.940	6.220	0.543	52.141	46.732							
6-Feb	10.600	2.153	0.584	3.100	OOS	13.700	15.470	2.900	6.070	0.387	21.168	44.307							
7-Feb	11.400	2.208	0.583	3.330	OOS	14.730	16.520	3.760	5.940	0.370	25.526	40.326							
8-Feb	11.000	2.035	0.330	3.110	OOS	14.110	15.670	4.230	6.240	0.479	29.979	44.224							
9-Feb	10.390	1.754	0.924	2.800	OOS	13.190	15.580	5.380	6.240	0.430	40.788	47.309							
10-Feb	10.220	1.896	0.517	2.680	OOS	12.900	14.870	5.160	5.860	0.112	40.000	45.426							
11-Feb	10.990	2.042	0.642	2.850	OOS	13.840	15.590	3.060	6.000	0.235	22.110	43.353							
12-Feb	10.400	1.850	0.620	2.890	OOS	13.290	15.510	4.210	5.950	0.527	31.678	44.771							
13-Feb	10.600	2.133	0.564	2.980	OOS	13.580	15.290	6.010	5.910	0.308	44.256	43.520							
14-Feb	10.500	1.986	0.593	3.020	OOS	13.520	15.440	5.110	6.000	0.447	37.796	44.379							
15-Feb	11.400	2.094	0.699	3.150	OOS	14.550	16.610	5.730	5.870	0.782	39.381	40.344							
16-Feb	10.900	1.935	0.641	3.050	OOS	13.950	16.070	3.150	6.250	0.728	22.581	44.803							
17-Feb	10.700	2.011	0.658	3.000	OOS	13.700	15.700	3.140	6.190	0.516	22.920	45.182							
18-Feb	11.320	2.043	0.630	3.140	OOS	14.460	16.600	6.920	6.330	0.541	47.856	43.776							
19-Feb	11.660	1.831	0.639	3.130	OOS	14.790	17.140	3.350	5.860	0.408	22.650	39.621							
20-Feb	11.340	2.185	0.569	3.240	OOS	14.580	17.020	5.690	5.890	0.250	39.026	40.398							
21-Feb	11.860	2.242	0.634	3.500	OOS	15.360	17.360	7.960	5.740	0.176	51.823	37.370							
22-Feb	12.270	2.225	0.670	3.400	OOS	15.670	18.270	7.250	6.170	0.569	46.267	39.375							
23-Feb	15.500	2.767	0.748	4.490	OOS	19.990	23.970	3.210	6.060	0.752	16.058	30.315							
24-Feb	13.270	2.338	0.691	4.360	OOS	17.630	23.010	5.160	4.510	0.736	29.268	25.581							
25-Feb	14.500	2.854	0.653	4.140	OOS	18.640	21.240	7.740	5.540	0.640	41.524	29.721							
26-Feb	13.280	2.365	0.612	3.740	OOS	17.020	19.080	2.680	5.700	0.320	15.746	33.490							
27-Feb	12.300	2.162	0.575	3.590	OOS	15.890	18.230	2.370	5.610	0.378	14.915	35.305							
28-Feb	12.460	2.532	0.627	3.900	OOS	16.360	19.410	4.660	5.810	0.608	28.484	35.513							
Total	323.550	59.482	17.435	91.830	0.000	415.380	479.580	134.960	167.540	13.902	919.694	1145.91							
Week 1	10.956	2.029	0.600	3.096	#DIV/0!	14.051	15.989	4.684	6.259	0.566	33.512	44.59							
Week 2	10.586	1.957	0.599	2.904	#DIV/0!	13.490	15.421	4.737	6.029	0.363	35.230	44.71							
Week 3	11.311	2.049	0.639	3.173	#DIV/0!	14.484	16.643	5.134	6.019	0.486	35.177	41.64							
Week 4	13.369	2.463	0.654	3.946	#DIV/0!	17.314	20.459	4.724	5.629	0.572	27.466	32.76							
Monthly	11.555	2.124	0.623	3.280	#DIV/0!	14.835	17.128	4.820	5.984	0.497	32.846	40.93							
Min =	10.220	1.727	0.330	2.680	0.000	12.900	14.870	2.370	4.510	0.112	14.915	25.58							
Max =	15.500	2.854	0.924	4.490	0.000	19.990	23.970	7.960	6.550	0.782	52.141	47.31							

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City of Reading Wastewater Treatment Plant - Digester Data

	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
31-Jan															
1-Feb	6.5	349	1860	7.2	161.00	4400	7.2	132	4920		105	260		47	440
2-Feb															
3-Feb	6.0		2720	7.1		4580	7.1		5080	7.6		480	7.7		4740
4-Feb															
5-Feb	6.2	991	2320	6.8	70	4400	6.9	100	5300	7.7	31	280	7.4	200	5000
6-Feb															
7-Feb															
8-Feb	7.1	33	4400	7.0	353	4600	7.2	47	5140	7.7	130	200	7.7	125	4940
9-Feb															
10-Feb	6.1		2100	6.8		4540	7.0		5060	7.7		520	7.9		4900
11-Feb															
12-Feb	5.8	1400	1540	6.6	84	4300	6.9	107	4920	7.7	212	1620	8.0	321	4960
13-Feb															
14-Feb															
15-Feb															
16-Feb															
17-Feb	5.9	1789	2240	6.8	37	4400	6.9	74	4400	8.4	26	440	7.9	88	5000
18-Feb															
19-Feb	6.3	1018	1760	6.9	121	4220	7.1	26	4480	7.2	25	3900	7.4	21	2340
20-Feb															
21-Feb															
22-Feb	6.8	481	3540	7.0	118	3000	6.9	349	3300	7.4	14	600	7.7	53	1760
23-Feb															
24-Feb	6.8		2940	7.0		4140	6.8		3560	7.3		4340	7.6		4780
25-Feb															
26-Feb	6.8	649	2840	7.0	88	4260	7.1	30	4260	7.4	54	4140	7.5	61	4760
27-Feb															
28-Feb															
Total	70.2	6710	28260	76.1	1032	46840	77.2	865	50420	76.1	597	16780	76.8	916	43620
Week 1	6.2	670	2300	7.0	116	4460	7.1	116	5100	7.6	68	340	7.6	124	3393
Week 2	6.3	717	2680	6.8	219	4480	7.0	77	5040	7.7	171	780	7.9	223	4933
Week 3	6.1	1,404	2000	6.8	79	4310	7.0	50	4440	7.8	26	2170	7.7	55	3670
Week 4	6.8	565	3107	7.0	103	3800	7.0	190	3707	7.4	34	3027	7.6	57	3767
Monthly	6.4	839	2569	6.9	129	4258	7.0	108	4584	7.6	75	1525	7.7	115	3965
Min =	5.8	33	1540	6.6	37	3000	6.8	26	3300	7.2	14	200	7.4	21	440
Max =	7.1	1789	4400	7.2	353	4600	7.2	349	5300	8.4	212	4340	8.0	321	5000

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Dissolved Oxygen -February 2010

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
2/1/2010	9.8	9.8	9.7	9.8	9.6	9.6	8.5	8.5	
2/2/2010	9.6	9.5	9.3	9.6	9.4	9.4	8.4	8.4	
2/3/2010	9.5	9.1	9.0	9.3	8.9	9.4	8.3	8.3	
2/4/2010	9.2	9.4	9.1	9.2	9.0	8.8	8.4	8.4	
2/5/2010	8.7	9.0	8.8	8.9	8.8	8.6	8.4	8.4	
2/6/2010	8.8	9.0	8.4	8.5	8.7	8.7	8.4	8.4	
2/7/2010	9.0	9.1	8.9	8.9	8.5	8.5	8.6	8.5	
2/8/2010	8.6	8.8	8.5	8.8	8.5	8.4	9.5	8.4	
2/9/2010	8.5	8.6	8.6	8.6	8.6	8.2	8.3	8.2	
2/10/2010	8.1	8.1	8.2	8.1	8.0	8.9	8.5	8.0	
2/11/2010	9.0	9.0	8.8	8.3	8.6	8.6	9.5	8.3	
2/12/2010	8.8	8.8	8.6	8.6	8.5	8.5	8.9	8.5	
2/13/2010	8.6	8.5	8.4	8.4	8.4	8.6	8.4	8.4	
2/14/2010	8.5	8.3	8.4	8.3	8.3	8.2	8.4	8.2	
2/15/2010	8.5	8.4	8.5	8.4	8.4	8.1	8.5	8.1	
2/16/2010	8.2	8.1	8.2	8.1	8.1	8.2	9.6	8.1	
2/17/2010	8.4	8.3	8.4	8.4	8.4	8.2	8.5	8.2	
2/18/2010	8.4	8.3	8.2	8.1	8.2	8.0	8.5	8.0	
2/19/2010	8.1	8.2	8.3	8.3	8.4	8.2	8.3	8.1	
2/20/2010	8.4	8.4	8.1	8.2	8.1	8.1	8.5	8.1	
2/21/2010	8.2	8.2	8.5	8.5	8.4	8.2	8.6	8.2	
2/22/2010	8.3	8.2	8.1	8.2	8.2	8.7	8.4	8.1	
2/23/2010	8.1	7.9	7.9	8.0	7.9	7.6	8.3	7.6	
2/24/2010	7.7	8.0	7.9	7.9	7.8	7.8	8.4	7.7	
2/25/2010	7.8	8.0	8.0	8.1	8.1	8.2	8.4	7.8	
2/26/2010	8.3	8.4	8.4	8.5	8.4	9.8	8.5	8.3	
2/27/2010	9.7	9.9	9.9	9.6	9.7	8.3	9.8	8.3	
2/28/2010	8.4	8.4	8.6	8.3	8.2	7.7	8.6	7.7	
Min	7.70	7.90	7.90	7.90	7.80	7.60	8.3	Min	7.60
Max	9.80	9.90	9.90	9.80	9.70	9.80	9.8	Max	8.50
								Avg	8.18

	February 2010 Total Residual Chlorine						
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average
1-Feb	0.00	0.01	0.00	0.00	0.01	0.02	0.01
2-Feb	0.00	0.01	0.01	0.01	0.01	0.00	0.01
3-Feb	0.05	0.01	0.02	0.01	0.00	0.00	0.02
4-Feb	0.00	0.03	0.02	0.01	0.01	0.02	0.02
5-Feb	0.01	0.01	0.02	0.01	0.01	0.01	0.01
6-Feb	0.03	0.00	0.02	0.01	0.01	0.00	0.01
7-Feb	0.00	0.02	0.02	0.02	0.02	0.01	0.02
8-Feb	0.02	0.00	0.01	0.01	0.01	0.01	0.01
9-Feb	0.02	0.03	0.00	0.00	0.00	0.01	0.01
10-Feb	0.03	0.03	0.02	0.01	0.02	0.04	0.03
11-Feb	0.00	0.04	0.01	0.01	0.01	0.03	0.02
12-Feb	0.01	0.02	0.01	0.01	0.02	0.01	0.01
13-Feb	0.01	0.03	0.02	0.01	0.01	0.02	0.02
14-Feb	0.03	0.02	0.02	0.00	0.01	0.02	0.02
15-Feb	0.03	0.14	0.02	0.00	0.01	0.00	0.03
16-Feb	0.01	0.02	0.01	0.01	0.00	0.02	0.01
17-Feb	0.01	0.01	0.02	0.01	0.00	0.02	0.01
18-Feb	0.02	0.01	0.01	0.01	0.02	0.00	0.01
19-Feb	0.01	0.02	0.02	0.02	0.02	0.02	0.02
20-Feb	0.01	0.02	0.01	0.01	0.01	0.01	0.01
21-Feb	0.02	0.02	0.01	0.01	0.02	0.02	0.02
22-Feb	0.01	0.01	0.02	0.02	0.01	0.03	0.02
23-Feb	0.01	0.01	0.03	0.01	0.02	0.01	0.02
24-Feb	0.03	0.01	0.02	0.01	0.01	0.00	0.01
25-Feb	0.03	0.02	0.02	0.00	0.02	0.03	0.02
26-Feb	0.00	0.02	0.01	0.01	0.01	0.00	0.01
27-Feb	0.01	0.01	0.02	0.01	0.01	0.00	0.01
28-Feb	0.01	0.02	0.00	0.00	0.01	0.01	0.01
Average	0.02	0.02	0.02	0.01	0.01	0.01	0.01
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	
Maximum	0.05	0.14	0.03	0.02	0.02	0.04	

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* February 2010

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	= 0.00
	X	X 0.0000417	= 0.00
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 21.26	X 0.01	=
51.87	X 21.26	X 0.01	= 11.03
0.00	X 21.26	X 0.01	=
1,446.08	X 21.26	X 0.01	= 307.44
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 318.47

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:		11.03		307.44
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Signature — Utilities Manager (Title)

610-655-6258 (Telephone) — 03/18/2010 (Date)

City of Reading 3-C Watershed *for the Month* February 2010

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

EPA REGION III
FEB 17 2010
NPDES PERMITS BRANCH
(3WP21)

PA0026549	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	01/31/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	59	******		0	Daily	COMP24
00080 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	7.2	******	******		0	7/Daily	GRAB
00300 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.0	******	7.9		0	Daily	GRAB
00400 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1391	1561		******	10	11		0	Daily	COMP24
00530 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	1092	******		******	7.7	******		0	Daily	COMP24
00610 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	16.97	29.22		******	******	******	******	0	Continuous	MEASRD
50050 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.01	******		0	2/Shift	GRAB
50060 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Deborah A.S. Hoag, P.E. Utilities Division Mngr	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	610-655-6258		02/22/2010
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	01/31/2010

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

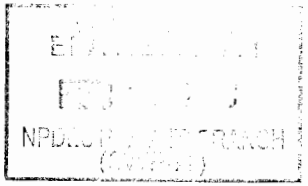
No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.00979	******		******	<0.00007	******		0	Weekly	COMP24
71900 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	2	******		0	Daily	GRAB
74055 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1768	2062		******	12	15		0	Daily	COMP24
80082 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Deborah A.S. Hoag, P.E. Utilities Division Mngr	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Deborah A.S. Hoag	610-655-6258		02/22/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

	January 2010					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
1-Jan	12.8	20	12	8	3.2	17.66	8.1	7.2	0.45		1	50	0.2	28	46
2-Jan	12.2	21	13	10	3.4	16.95	8.6	7.4	0.60		3	50	0.0	19	28
3-Jan	8.8	22	14	13	6.5	17.41	9.0	7.3	0.59		1	50	0.0	17	25
4-Jan	11.7	21	17	12	8.5	16.90	8.2	7.3	0.86		1	50	0.0	23	29
5-Jan	10.6	26	20	10	8.8	19.02	8.4	7.4	1.27		3	65	0.1	21	30
6-Jan	13.5	21	14	14	8.4	14.07	8.2	7.4	1.33		1	50	0.0	26	37
7-Jan	12.6	21	14	10	8.3	16.44	8.4	7.4	0.61		2	65	0.0	24	38
8-Jan	14.3	22	12	10	9.2	15.55	8.3	7.5	0.89		2	65	0.0	23	31
9-Jan	12.6	23	13	11	7.4	15.78	8.8	7.3	0.94		1	65	0.0	17	31
10-Jan	9.3	25	16	9	9.2	16.11	7.5	7.1	0.95		1	60	0.0	12	30
11-Jan	14.5	26	16	14	7.6	17.27	8.4	7.7	0.86		1	50	0.0	15	35
12-Jan	12.8	29	14	8	7.5	14.69	8.2	7.4	0.70		1	65	0.0	25	35
13-Jan	11.9	22	12	4	8.5	15.64	7.5	7.2	0.51		1	75	0.0	22	36
14-Jan	13.3	24	17	11	10.1	15.74	8.2	7.4	1.14		1	65	0.0	18	49
15-Jan	13.1	20	12	11	8.2	15.55	8.1	7.3	0.82		1	65	0.0	21	53
16-Jan	14.9	21	12	9	6.1	15.59	7.8	7.6	0.85		1	75	0.0	30	53
17-Jan	12.1	21	13	11	7.6	20.41	7.6	7.5	0.70		1	60	0.7	29	40
18-Jan	13.2	20	12	8	5.4	17.89	7.4	7.2	0.95		1	75	0.0	30	53
19-Jan	14.8	15	10	11	6.2	16.74	8.1	7.6	0.17		34	50	0.0	27	46
20-Jan	16.4	22	12	9	6.9	15.57	8.1	7.2	0.62		1	60	0.0	22	45
21-Jan	12.8	17	9	10	7.6	14.15	7.8	7.4	0.71		1	70	0.0	19	44
22-Jan	14.0	17	9	11	8.4	14.62	7.9	7.4	0.64		1	70	0.0	22	44
23-Jan	12.5	19	10	8	9.1	14.74	8.6	7.0	0.67		1	70	0.0	18	47
24-Jan	12.5	22	12	6	8.7	19.07	8.2	7.5	0.42		1	50	0.2	27	54
25-Jan	16.2	26	14	16	8.8	29.22	7.2	7.4	1.12		26	50	0.9	43	61
26-Jan	15.1	16	9	6	4.5	19.32	8.1	7.5	0.57		7	42	0.0	29	43
27-Jan	13.7	16	8	8	6.4	17.82	8.5	7.6	0.41		2	50	0.0	23	38
28-Jan	14.5	17	8	8	8.4	17.13	8.5	7.6	0.61		1	50	0.0	17	47
29-Jan	10.0	17	9	6	9.5	15.83	8.5	7.3	0.55		1	50	0.0	14	25
30-Jan	14.4	18	9	9	10.6	16.24	9.3	7.9	0.39		1	50	0.0	15	19
31-Jan	13.7	20	13	10	11.1	16.84	9.0	7.8	0.37		1	65	0.0	11	33
						See DO profile					<				
TOTAL		647	385	301	240.0	526.0	####	229.8	22.27			1827	2.2		
Week 1	11.7	22	15	11	6.7	16.92	8.42	7.34	0.82		2	54	0.0	23	33
Week 2	12.7	24	14	9	8.5	15.83	8.12	7.38	0.86		1	64	0.0	19	35
Week 3	13.9	19	11	10	6.8	16.56	7.83	7.40	0.69		6	65	0.1	25	48
Week 4	14.1	19	10	8	7.8	18.85	8.14	7.43	0.63		6	55	0.2	26	48
Monthly	13.1	21	12	10	7.7	16.97	8.20	7.41	0.72		2	59	0.1	22	40
Min =	8.8	15	8	4	3.2	14.07	7.2	7.0	0.17		1	42	0.0	11	19
Max =	16.4	29	20	16	11.1	29.22	9.3	7.9	1.33		34	75	0.9	43	61
1/1 and 1/2 were included in December's report. Weekly avg's include: 1/3 - 9, 1/10 - 16, 1/17-23, 1/24 - 30th. 31st will be included in February's report. Only highlighted averages were adjusted to these weekly averages.															
DISCHARGE LIMITATIONS															
Ave Monthly:			25	30	18		Min.	6.0			10,000	186			
Ave Weekly:			40	45			of	to							
Inst. Max:			50	60	24		5.0	9.0				465			



Print Date: 2/18/2010

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Jan	8,401	36,884	45,286	-2,930		42,356	2,946	1,767	7,694	29,273	36,967	38,504	75,471	1,178	0	932	2,059	2991	-373		2,618	474
2-Jan	6,241	36,754	42,996	7,714		50,710	2,969	1,838	5,594	21,864	27,458	30,920	58,378	1,414	1,300	721	2,196	2,917	1,239	273	4,156	476
3-Jan	5,685	43,535	49,219	3,848	523	53,067	3,194	2,033	6,040	41,987	48,027	30,564	78,590	1,888	2,200	764	2,380	3,144	3,047	234	6,191	950
4-Jan	7,172	46,179	53,351	-490		52,861	2,960	2,396	5,566	29,215	34,781	18,080	52,861	1,691	1,400	646	1,875	2,521	2,519	779	5,040	1,198
5-Jan	6,899	50,620	57,519	-894		56,625	4,124	3,173	5,519	22,685	28,205	45,162	73,367	1,586	1,400	775	2,137	2,912	5,557	1,138	8,469	1,390
6-Jan	5,393	42,968	48,360	-822		47,538	2,464	1,643	6,207	25,967	32,174	69,320	101,494	1,643	1,800	527	1,691	2,217	3,059	476	5,277	990
7-Jan	5,876	51,374	57,250	-8,131	499	49,119	2,879	1,920	4,896	23,118	28,015	20,399	48,414	1,371	1,300	523	1,605	2,129	2,772	408	4,900	1,142
8-Jan	6,192	38,372	44,565	12,439		57,004	2,853	1,556	5,350	27,307	32,657	83,973	116,630	1,297	1,900	664	1,919	2,582	2,605	804	5,187	1,187
9-Jan	6,972	38,164	45,135	19,706		64,842	3,027	1,711	7,701	32,092	39,793	56,218	96,011	1,448	2,900	603	1,813	2,415	758	367	3,174	977
10-Jan	6,529	37,613	44,143	15,739	468	59,881	3,359	2,150	10,088	25,412	35,500	61,148	96,648	1,209	2,000	684	2,055	2,739	1,453	435	4,192	1,231
11-Jan	6,160	47,959	54,119	-5,010		49,109	3,745	2,305	4,970	22,803	27,774	32,795	60,568	2,016	1,600	579	1,737	2,316	2,267	962	4,584	1,087
12-Jan	5,232	46,628	51,860	3,653		55,513	3,553	1,715	5,257	26,645	31,902	22,404	54,306	980	2,200	664	2,227	2,890	4,302	1,044	7,193	921
13-Jan	5,545	35,647	41,192	-2,191		39,001	2,870	1,565	4,833	38,300	43,133	10,819	53,952	522	1,900	572	1,600	2,172	2,974	1,517	5,146	1,106
14-Jan	5,187	40,908	46,095	590	436	46,685	3,151	2,232	7,232	55,089	62,321	-35,445	26,875	1,444	1,200	589	1,882	2,470	1,828	265	4,298	1,326
15-Jan	4,619	46,412	51,031	-12,091		38,939	2,594	1,556	3,553	25,395	28,948	11,104	40,052	1,427	1,500	580	1,856	2,437	656	370	3,093	1,060
16-Jan	7,232	34,362	41,594	-12,054		29,540	2,730	1,560	7,381	12,909	20,290	-828	19,462	1,170	1,800	611	1,927	2,538	879	353	3,417	789
17-Jan	6,719	40,512	47,232	9,914	418	57,146	3,575	2,213	7,342	27,742	35,084	152,640	187,724	1,872	1,800	649	1,982	2,631	2,741	81	5,372	1,300
18-Jan	7,192	40,349	47,541	-20,071		27,470	2,984	1,790	6,224	69,676	75,899	-52,901	22,998	1,194	2,100	549	1,624	2,173	2,529	583	4,702	800
19-Jan	6,474	50,440	56,914	12		56,926	2,094	1,396	5,482	53,863	59,345	6,411	65,756	1,536	1,600	535	1,549	2,084	1,749	817	3,834	868
20-Jan	5,921	41,433	47,354	-1,117		46,237	2,857	1,558	8,218	66,653	74,871	5,697	80,568	1,169	1,900	567	1,747	2,314	2,240	880	4,554	895
21-Jan	5,958	40,704	46,662	-14,787	1,334	31,875	2,006	1,062	7,505	32,209	39,714	-18,312	21,402	1,180	1,400	535	1,690	2,225	1,293	534	3,518	892
22-Jan	8,468		8,468	28,105		36,572	2,073	1,097	1,383		1,383	18,486	19,869	1,341	1,500	589		589	3,865	243	4,454	1,021
23-Jan	5,289		5,289	29,645		34,935	2,336	1,229	4,735		4,735	50,942	55,677	983	2,000	552		552	3,477	405	4,028	1,114
24-Jan	13,125	71,457	84,583	-2,367	34	82,216	3,499	1,909	12,698	59,411	72,110	293	72,403	954	1,500	626	1,848	2,473	523	183	2,997	1,381
25-Jan	6,373		6,373	55,331		61,704	6,336	3,412	6,681		6,681	131,313	137,993	3,899	2,200	567		567	4,051	433	4,618	2,147
26-Jan	5,517	42,367	47,884	1,595		49,480	2,578	1,450	4,729	25,632	30,361	13,071	43,432	967	1,000	624	1,737	2,361	2,298	299	4,659	728
27-Jan	8,866	45,653	54,519	-13,623		40,896	2,378	1,189	6,165	40,393	46,558	10,927	57,485	1,189	800	611	1,786	2,397	2,966	516	5,363	954
28-Jan	6,665	40,282	46,947	-17,313	518	29,635	2,429	1,143	6,236	23,594	29,830	-4,180	25,650	1,143	1,200	655	1,889	2,545	1,739	2,172	4,283	1,206
29-Jan	5,071	43,118	48,189	-6,976		41,213	2,244	1,188	5,338	51,558	56,895	22,807	79,702	792	1,000	662	1,972	2,634	2,600	144	5,235	1,256
30-Jan	5,774	41,283	47,057	-14,206		32,851	2,438	1,219	6,177	26,788	32,965	29,535	62,499	1,219	900	685	2,238	2,923	6,268	79	9,191	1,436
31-Jan	6,218	42,237	48,455	-1,761		46,694	2,809	1,826	6,475	23,038	29,513	76,699	106,212	1,404	1,000	724	2,534	3,259	2,706	412	5,964	1,559
TOTAL	202,964	1,214,217	1,417,181	51,458	4,229	1,468,640	92,053	54,800	193,266	960,621	1,153,888	938,563	2,092,451	43,127	48,300	19,562	53,557	73,119	76,588	17,206	149,707	33,859
Week 1	6,524	44,045	50,569	-244	511	50,325	3,072	2,062	5,931	27,730	33,661	36,136	69,796	1,561	1,343	698	1,992	2,690	2,546	551	5,236	946
Week 2	5,974	40,756	46,730	6,418	452	53,148	3,143	1,869	6,490	32,521	39,011	33,130	72,142	1,253	1,957	622	1,890	2,512	2,312	771	4,825	1,119
Week 3	6,302	42,031	48,333	-7,171	876	41,162	2,561	1,478	6,529	41,207	47,736	14,830	62,566	1,325	1,729	575	1,768	2,343	1,727	517	4,070	943
Week 4	7,758	49,940	36,295	11,625	276	47,920	3,129	1,644	6,090	37,258	27,380	31,550	58,930	1,452	1,457	603	1,815	1,641	2,703	607	4,343	1,221
Monthly	6,547	43,365	45,716	1,660	529	47,375	2,969	1,768	6,234	34,308	37,222	30,276	67,498	1,391	1,558	631	1,913	2,359	2,471	574	4,829	1,092
Min =	4619	34362	5289	-20071	34	27,470	2,006	1,062	1,383	12,909	1,383	-52,901	19,462	522	0	523	1,549	552	-373	79	2,618	474
Max =	13125	71457	84583	55331	1334	82,216	6,336	3,412	12,698	69,676	75,899	152,640	187,724	3,899	2,900	932	2,534	3,259	6,268	2,172	9,191	2,147
								4,170						7,130								3,000
								6,255						10,696								

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	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)			Eff. Mercury (Hg)		
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day		mg/L		lbs/day
1-Jan										
2-Jan										
3-Jan										
4-Jan										
5-Jan	0.00010	0.00294	0.00010	0.00937	0.00230	0.28313	<	0.00007	<	0.01110
6-Jan	0.00009	0.00229	0.00007	0.00654	0.00320	0.38030	# <	0.00007	<	0.00821
7-Jan										
8-Jan										
9-Jan										
10-Jan										
11-Jan										
12-Jan	0.00350	0.08932	0.00020	0.01903	0.00100	0.12068	<	0.00007	<	0.00858
13-Jan										
14-Jan										
15-Jan										
16-Jan										
17-Jan										
18-Jan										
19-Jan	0.00310	0.08092	0.00007	0.00631	0.00050	0.05809	<	0.00007	<	0.00977
20-Jan										
21-Jan										
22-Jan										
23-Jan										
24-Jan										
25-Jan										
26-Jan	0.00009	0.00284	0.00610	0.64610	0.00030	0.04123	<	0.00007	<	0.01128
27-Jan										
28-Jan										
29-Jan										
30-Jan										
31-Jan										
Total	0.00688	0.17831	0.00654	0.68735	0.00730	0.88343		0.00035		0.04895
Week 1	0.00010	0.00261	0.00009	0.00796	0.00275	0.33172	<	0.00007	<	0.00966
Week 2	0.00350	0.08932	0.00020	0.01903	0.00100	0.12068	<	0.00007	<	0.00858
Week 3	0.00310	0.08092	0.00007	0.00631	0.00050	0.05809	<	0.00007	<	0.00977
Week 4	0.00009	0.00284	0.00610	0.64610	0.00030	0.04123	<	0.00007	<	0.01128
Monthly	0.00138	0.03566	0.00131	0.13747	0.00146	0.17669	<	0.00007	<	0.00979
Min =	0.00009	0.00229	0.00007	0.00631	0.00030	0.04123	<	0.00007	<	0.00821
Max =	0.00350	0.08932	0.00610	0.64610	0.00320	0.38030	<	0.00007	<	0.01128
								0.00023		0.055
								0.00046		

	January 2010				City of Reading Wastewater Treatment Plant																Laboratory Process Control Data								
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent				Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
1-Jan	273	250	7.4	30.3	378	300	7.2	21.1	353	288	23.3	-23	300	-2.9	330	588	20.4	7.1	15.39	188	74	18.6	6.6	35	26	16.3	200	7.2	27	13	10.9	180
2-Jan	212	190	7.7	24.5	390	232	7.4	23.3	348	222	23.6	62	250	10.0	410	472	33.6	7.3	14.83	215	81	23.3	6.8	54	46	19.3		7.3	32	23	14.3	
3-Jan	192	204	7.4	25.8	450	434	7.3	24.6	390	380	24.9	30	242	24.1	420	622	49.0	7.1	15.15	205	85	27.8	6.7	54	43	21.1		6.9	NS	NS	NS	
4-Jan	250	194	7.7	22.5	490	310	7.7	19.9	434	283	20.5	-4	147	20.5	430	430	41.0	7.2	14.74	232	92	23.8	6.7	44	37	19.7	260	7.9	NS	NS	NS	260
5-Jan	235	188	7.5	26.4	540	242	8.7	22.8	467	229	23.7	-7	367	45.1	460	596	68.8	6.8	14.76	275	81	31.9	6.1	56	44	25.4		7.2	84	27	18.9	
6-Jan	212	244	7.8	20.7	460	278	7.4	18.1	407	271	18.7	-7	583	25.7	400	854	44.4	7.1	14.25	225	75	20.3	6.6	50	60	19.3	320	7.1	36	22	14.0	260
7-Jan	228	190	7.6	20.3	560	252	6.2	17.5	487	238	18.1	-69	174	23.6	418	412	41.7	7.1	14.09	235	73	24.3	6.4	55	38	20.0		7.4	32	14	15.7	
8-Jan	250	216	7.2	26.8	430	306	7.0	21.5	391	286	22.7	109	737	22.8	500	1023	45.5	7.0	13.67	248	68	28.8	6.6	44	47	23.5	280	7.2	29	22	18.0	240
9-Jan	258	285	7.1	22.3	440	370	8.3	20.9	397	350	21.2	173	494	6.7	570	844	27.9	7.2	13.64	250	84	25.5	6.5	52	48	20.8		7.2	34	20	18.0	
10-Jan	233	360	7.9	24.4	410	277	7.5	22.4	369	296	22.9	131	511	12.1	500	807	35.0	7.3	14.36	268	109	25.9	6.8	21	21	22.9		7.4	NS	NS	NS	
11-Jan	233	188	7.7	21.9	530	252	7.5	19.2	463	238	19.8	-43	280	19.4	420	518	39.2	6.9	14.02	258	95	25.6	6.3	22	28	19.6	260	7.1	40	15	16.5	240
12-Jan	205	206	7.5	26.0	490	280	7.3	23.4	430	264	23.9	30	186	35.7	460	450	59.6	7.4	14.47	272	133	34.3	6.9	25	43	24.7		7.2	35	24	18.6	
13-Jan	218	190	7.5	22.5	430	462	7.1	19.3	380	398	20.1	-20	100	27.4	360	498	47.5	7.3	12.99	215	92	30.0	6.9	59	32	25.2	300	7.3	29	14	21.0	300
14-Jan	208	290	7.6	23.6	450	606	7.3	20.7	398	538	21.3	5	-306	15.8	403	232	37.1	7.1	13.89	220	87	26.8	6.7	43	41	23.4		6.8	28	16	19.1	
15-Jan	195	150	7.6	24.5	530	290	7.1	21.2	459	260	21.9	-109	100	5.9	350	360	27.8	6.8	13.34	255	103	22.3	6.3	21	35	19.8	300	6.8	32	13	15.5	260
16-Jan	290	296	7.3	24.5	378	142	7.2	21.2	359	175	21.9	-104	-7	7.6	255	168	29.5	6.8	13.89	248	71	22.8	6.4	24	31	19.4		6.7	31	28	14.2	
17-Jan	205	224	7.0	19.8	368	252	6.9	18.0	331	246	18.4	69	1068	19.2	400	1314	37.6	6.9	17.13	228	91	20.3	6.7	50	40	17.1		6.9	32	24	13.5	
18-Jan	245	212	7.8	18.7	410	708	7.6	16.5	372	594	17.0	-157	-414	19.8	215	180	36.8	7.6	15.32	302	76	20.8	6.9	32	49	17.8	260	7.3	30	22	12.6	180
19-Jan	248	210	7.5	20.5	560	598	7.6	17.2	490	511	17.9	0	55	15.1	490	566	33.0	6.9	13.93	260	81	21.4	6.4	56	43	17.2		7.0	36	19	13.7	
20-Jan	232	322	8.4	22.2	460	740	7.6	19.4	410	648	20.0	-10	49	19.4	400	697	39.4	7.3	13.86	272	83	23.8	6.6	54	57	19.1	300	7.2	48	26	14.0	260
21-Jan	235	296	7.7	21.1	460	364	7.2	19.1	410	349	19.5	-130	-161	11.4	280	188	30.9	6.6	13.65	235	82	23.1	6.5	56	39	19.8		7.2	35	20	14.9	
22-Jan	355	58	8.1	24.7	NS	NS	7.2	NS	78	13	5.4	257	169	35.4	335	182	40.8	6.9	13.09	238	68	26.6	6.2	37	17	20.5	300	6.9	29	18	15.5	280
23-Jan	210	188	7.9	21.9	NS	NS	7.3	NS	48	43	5.1	272	467	31.8	320	510	36.9	7.1	13.09	220	79	24.0	8.5	36	25	18.9		7.2	32	17	15.3	
24-Jan	430	416	7.8	20.5	700	582	7.5	18.1	638	544	18.7	-18	2	3.9	620	546	22.6	7.2	15.90	232	61	20.5	6.8	50	31	19.6		7.2	39	20	15.0	
25-Jan	145	152	7.1	12.9	NS	NS	7.1	NS	34	36	3.0	296	702	21.7	330	738	24.7	7.0	22.42	190	106	13.3	6.7	69	71	12.2	220	7.8	39	31	11.0	320
26-Jan	175	150	7.6	19.8	400	242	7.5	16.4	348	221	17.2	12	95	16.7	360	316	33.9	7.2	16.48	220	91	20.6	7.1	45	32	15.9		6.9	NS	NS	NS	
27-Jan	302	210	7.6	20.8	460	407	7.6	18.0	424	362	18.6	-106	85	23.1	318	447	41.7	6.8	15.42	212	81	22.8	6.1	50	41	17.6	260	6.8	30	21	13.4	220
28-Jan	233	218	8.8	22.9	420	246	7.4	19.7	377	240	20.4	-139	-34	14.0	238	206	34.4	7.6	14.93	215	72	24.0	7.2	39	21	20.8		6.9	34	18	16.5	
29-Jan	190	200	7.8	24.8	470	562	7.4	21.5	407	480	22.2	-59	193	22.0	348	673	44.2	6.7	14.20	248	125	25.8	6.5	47	36	21.7	260	7.1	32	19	19.3	300
30-Jan	215	230	7.3	25.5	450	292	7.5	24.4	397	278	24.6	-120	249	52.9	277	527	77.5	7.4	14.22	227	87	25.8	6.6	46	38	23.1		7.3	NS	NS	NS	
31-Jan	218	227	7.3	25.4	440	240	7.3	26.4	389	237	26.2	-14	616	21.7	375	853	47.9	6.9	14.93	205	80	26.6	6.4	39	24	17.2		7.1	33	23	13.3	
TOTAL	7330	6954	236.2	708.5	12954	10266	228.8	571.8	11682	9518	602.8	310	7299	627.5	11992	16817	1230.3	#####	456.05	7313	2666	751.4	#####	1365	1184	618.9	3520.0	221.4	918	529	402.7	3300.0
Week 1	229	209	7.6	24.4	467	293	7.4	21.0	412	273	21.8	-2	295	20.9	410	568	42.7	7.1	14.74	225	80	24.3	6.6	50	42	20.2	260.0	7.3	42	20	14.8	233.3
Week 2	229	248	7.5	23.9	454	365	7.4	21.1	404	339	21.7	55	286	20.0	459	625	41.7	7.2	13.86	247	95	28.1	6.7	38	37	22.9	280.0	7.2	33	19	18.5	260.0
Week 3	236	244	7.6	21.6	452	442	7.3	18.9	404	397	19.5	-63	99	14.0	341	496	33.6	7.0	14.45	257	84	22.1	6.5	42	42	18.6	286.7	7.0	35	22	14.1	233.3
Week 4	264	199	7.8	20.5	495	369	7.4	18.1	278	208	12.6	82	212	20.9	360	421	33.6	7.1	15.90	218	80	21.7	6.9	47	34	17.9	260.0	7.1	34	21	14.5	273.3
Monthly	236	224	7.6	22.9	463	367	7.4	20.4	377	307	19.4	10	235	20.2	387	542	39.7	7.1	14.71	236	86	24.2	6.7	44	38	20.0	270.8	7.1	35	20	15.5	253.8
Min =	145	58	7.0	12.9	368	142	6.2	16	34	13	3.0	-157	-414	-2.9	215	168	20.4	6.6	12.99	188	61	13.3	6.1	21	17	12.2	200.0	6.7	27	13	10.9	180.0
Max =	430	416	8.8	30.3	700	740	8.7	26	638	648	26.2	296	1068	52.9	620	1314	77.5	7.6	22.42	302	133	34.3	8.5	69	71	25.4	320.0	7.9	84	31	21.0	320.0
									%Removal						%Removal																	
									94.46	96.84	60.19				94.60	98.21	80.50															

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		Final Settling								Filtrate		
chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
250	6.2	25	13	14	3.9	160			7.1		0	
200	7.4	24	14	14	5.8				7.0		1300	133.0
NS	7.0	34	22	34	8.3				6.5	103.0	2200	46.0
160	7.4	22	15	5	9.3	240			7.3		1400	187.2
165	6.8	30	20	16	10.9		2.3	0.500	6.7		1400	204.6
140	6.9	25	14	18	6.8	200			6.9		1800	86.4
160	7.3	38	14	9	9.9				7.3	94.0	1300	77.0
190	7.4	28	13	14	11.0	200			7.1		1900	228.0
205	7.2	29	13	10	9.1				7.0		2900	154.0
NS	7.5	NS	NS	NS	NS				7.1	142.0	2000	132.0
155	6.8	NS	NS	NS	NS	200			7.1		1600	212.4
160	7.5	22	14	15	10.2				7.3		2200	183.0
185	7.5	22	13	3	10.6	220	13.3	0.764	7.3		1900	266.0
190	7.3	37	12	15	12.0				6.8	106.0	1200	64.4
170	7.2	30	15	15	8.7	240			6.7		1500	227.5
165	7.0	28	15	13	6.9				7.0		1800	143.4
155	7.1	24	13	17	4.5				7.0	100.0	1800	19.4
200	7.3	24	13	10	6.0	200	8.9	0.786	7.2		2100	89.0
205	7.0	27	12	9	7.3				7.1		1600	174.0
165	7.2	29	17	14	7.5	360			7.2		1900	163.0
165	6.9	23	12	2	8.0				6.9	215.0	1400	86.0
165	6.9	8	6	10	8.5	200			7.0		1500	60.0
200	7.5	20	12	8	7.5				7.1		2000	129.0
135	7.5	NS	NS	NS	NS				7.1	10.0	1500	54.0
150	7.4	44	18	19	7.1	220	5.9	0.934	7.7		2200	103.0
NS	7.0	19	14	8	5.2				7.2		1000	57.4
175	6.9	20	9	5	7.2	200			6.6		800	89.2
170	7.4	14	10	7	7.9				7.1	82.0	1200	344.0
155	6.5	25	11	9	11.4	240			7.0		1000	49.6
NS	7.4	20	11	13	12.6				7.2		900	29.6
130	7.4	27	12	8	9.4				6.8		1000	90.8
4665.0	221.7	718	377	334	233.4	2880.0	30.4	2.984	218.1	852.0	48300	3882.9
179.2	7.0	28	16	16	7.8	200.0	2.3	0.500	7.0	98.5	1343	122.4
180.8	7.3	28	13	11	10.6	206.7	13.3	0.764	7.1	124.0	1957	177.1
175.0	7.1	26	14	11	7.0	266.7	8.9	0.786	7.0	157.5	1729	128.9
165.8	7.2	21	12	10	7.2	206.7	5.9	0.934	7.1	46.0	1457	119.5
172.8	7.2	26	13	12	8.3	221.5	7.6	0.746	7.0	106.5	1558	129.4
130.0	6.2	8	6	2	3.9	160.0	2.3	0.500	6.5	10.0	0	19.4
250.0	7.5	44	22	34	12.6	360.0	13.3	0.934	7.7	215.0	2900	344.0

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
		Flow (MGD)																
1-Jan	11.700	2.304	0.529	3.690		15.390	17.660	2.500	6.410	0.139	16.244	41.650						
2-Jan	11.300	2.308	0.528	3.530		14.830	16.950	5.450	6.050	0.246	36.750	40.796						
3-Jan	11.600	2.204	0.572	3.550		15.150	17.410	4.940	6.200	0.609	32.607	40.924						
4-Jan	11.300	2.228	0.578	3.440		14.740	16.900	2.890	6.100	0.499	19.607	41.384						
5-Jan	11.240	2.285	0.702	3.520		14.760	19.020	3.100	6.210	0.667	21.003	42.073						
6-Jan	11.200	2.169	0.641	3.050		14.250	14.070	2.930	5.720	0.661	20.561	40.140						
7-Jan	11.000	1.865	0.631	3.090		14.090	16.440	3.050	6.170	0.636	21.647	43.790						
8-Jan	10.700	2.087	0.543	2.970		13.670	15.550	3.640	6.030	0.423	26.628	44.111						
9-Jan	10.400	2.033	0.547	3.240		13.640	15.780	2.750	6.020	0.286	20.161	44.135						
10-Jan	11.000	2.204	0.642	3.360		14.360	16.110	2.660	6.240	0.395	18.524	43.454						
11-Jan	10.850	2.137	0.670	3.170		14.020	17.270	3.110	5.990	0.543	22.183	42.725						
12-Jan	11.410	2.042	0.680	3.060		14.470	14.690	3.230	5.620	0.684	22.322	38.839						
13-Jan	9.940	1.941	0.672	3.050		12.990	15.640	2.820	6.070	0.684	21.709	46.728						
14-Jan	10.900	2.110	0.643	2.990		13.890	15.740	3.370	6.300	0.493	24.262	45.356						
15-Jan	10.500	1.908	0.601	2.840		13.340	15.550	5.140	5.810	0.195	38.531	43.553						
16-Jan	10.900	1.850	0.503	2.990		13.890	15.590	6.090	6.070	0.295	43.844	43.701						
17-Jan	13.200	2.683	0.693	3.930		17.130	20.410	4.520	5.650	0.501	26.386	32.983						
18-Jan	11.800	2.240	0.690	3.520		15.320	17.890	1.780		0.785	11.619	#VALUE!						
19-Jan	10.800	1.884	0.684	3.130		13.930	16.740	4.530	14.680	0.563	32.520	105.384						
20-Jan	10.800	2.130	0.634	3.060		13.860	15.570	4.100	7.050	0.647	29.582	50.866						
21-Jan	10.610	1.917	0.621	3.040		13.650	14.150	3.320	6.660	0.744	24.322	48.791						
22-Jan	10.230	1.944	0.592	2.860		13.090	14.620	3.170	6.860	0.486	24.217	52.406						
23-Jan	10.070	1.960	0.498	3.020		13.090	14.740	3.370	6.730	0.376	25.745	51.413						
24-Jan	12.240	2.611	0.741	3.660		15.900	19.070	7.730	7.450	0.406	48.616	46.855						
25-Jan	17.150	3.090	0.720	5.270		22.420	22.420	6.440	2.350	0.504	28.724	10.482						
26-Jan	12.700	2.329	0.676	3.780		16.480	19.320	3.400	6.630	0.625	20.631	40.231						
27-Jan	11.900	2.193	0.654	3.520		15.420	17.820	4.320	6.520	0.694	28.016	42.283						
28-Jan	11.500	2.219	0.680	3.430		14.930	17.130		6.350	0.757	0.000	42.532						
29-Jan	11.000	1.985	0.570	3.200		14.200	15.830	9.260	6.480	0.348	65.211	45.634						
30-Jan	11.000	2.049	0.564	3.220		14.220	16.240	5.070	6.060	0.322	35.654	42.616						
31-Jan	11.510	2.246	0.635	3.420		14.930	16.840	4.590	6.440	0.544	30.743	43.135						
Total	352.450	67.155	19.334	103.600	0.000	456.050	519.160	123.270	192.920	15.757	838.569	#VALUE!						
Week 1	11.334	2.195	0.597	3.410	#DIV/0!	14.744	16.921	3.551	6.123	0.494	24.060	41.54						
Week 2	10.743	2.079	0.628	3.120	#DIV/0!	13.863	15.826	3.083	6.039	0.501	22.255	43.62						
Week 3	11.230	2.087	0.632	3.216	#DIV/0!	14.446	16.557	4.211	7.653	0.533	29.543	#VALUE!						
Week 4	12.256	2.335	0.652	3.649	#DIV/0!	15.904	17.874	4.738	6.127	0.550	25.136	40.89						
Monthly	11.369	2.166	0.624	3.342	#DIV/0!	14.711	16.747	4.109	6.431	0.508	27.051	#VALUE!						
Min =	9.940	1.850	0.498	2.840	0.000	12.990	14.070	1.780	2.350	0.139	0.000	#VALUE!						
Max =	17.150	3.090	0.741	5.270	0.000	22.420	22.420	9.260	14.680	0.785	65.211	#VALUE!						

Influent flow used on these dates due to inaccuracy of effluent flow over 25 MGD.

42 inch venturi malfunction. Using 6th and Canal totalizer in place of 42 inch for influent flow.

Print Date: 2/18/2010

	January 2010			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Jan	ns		ns	ns		ns	ns		ns	ns		ns	ns		ns
2-Jan															
3-Jan															
4-Jan	6.9	31	3860	6.9	385	3380	7.0	190	3980	7.4	49	4220	7.4	54	3380
5-Jan															
6-Jan	6.8		2940	6.9		3500	6.8		3960	7.4		4060	7.5		2700
7-Jan															
8-Jan	6.8		2140	7.2	146	3620	7.3	105	3840	7.5		2840	7.4		3900
9-Jan															
10-Jan															
11-Jan	6.8	51	2580	6.9	182	3040	7.2	67	4160	7.5	164	580	7.5	77	3920
12-Jan															
13-Jan	6.7		2620	7.2		3780	7.2		4420	7.0		200	7.4		3800
14-Jan															
15-Jan	6.8	64	3340	7.0	603	3580	7.1	97	4200	7.3	26	1240	7.4	95	3800
16-Jan															
17-Jan															
18-Jan															
19-Jan															
20-Jan	6.9	44	3800	7.0	67	4060	7.0	118	4200	7.4	28	3420	7.5	46	3980
21-Jan															
22-Jan	6.7	36	1660	7.0	187	3720	7.5	267	4400	7.4	113	2580	7.6	126	1040
23-Jan															
24-Jan															
25-Jan	6.7	241	2200	7.0	133	3880	7.4	56	4620	7.8	369	300	7.7	305	3400
26-Jan															
27-Jan	6.1		2260	6.9		3780	7.1		4420	7.5		2120	7.7		4400
28-Jan															
29-Jan	6.2	1097	1720	6.7	131	4040	7.0	200	4340		18	160		31	440
30-Jan															
31-Jan															
Total	73.4	1564	29120	76.5	1834	40380	78.4	1100	46540	74.1	767	21720	75.0	734	34760
Week 1	6.8	31	3400	6.9	385	3440	6.9	190	3970	7.4	49	4140	7.4	54	3040
Week 2	6.8	51	2447	7.1	164	3480	7.2	86	4140	7.3	164	1207	7.5	77	3873
Week 3	6.9	54	3570	7.0	335	3820	7.1	108	4200	7.3	27	2330	7.4	71	3890
Week 4	6.5	139	2040	7.0	160	3793	7.3	162	4480	7.5	241	1667	7.6	216	2947
Monthly	6.7	223	2647	7.0	229	3671	7.1	138	4231	7.4	110	1975	7.5	105	3160
Min =	6.1	31	1660	6.7	67	3040	6.8	56	3840	7.0	18	160	7.4	31	440
Max =	6.9	1097	3860	7.2	603	4060	7.5	267	4620	7.8	369	4220	7.7	305	4400

Print Date: 2/18/2010

Dissolved Oxygen -January 2010

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
1/1/2010	8.7	10.0	8.4	8.7	9.3	9.6	8.1	8.1	
1/2/2010	10.0	9.5	9.4	9.5	9.4	9.9	8.6	8.6	
1/3/2010	10.2	10.1	9.8	9.8	9.4	9.0	9.4	9.0	
1/4/2010	8.2	8.5	8.3	9.8	9.3	9.3	8.8	8.2	
1/5/2010	10.7	9.1	9.0	9.8	9.5	9.3	8.4	8.4	
1/6/2010	9.4	9.3	8.8	9.7	9.5	9.1	8.2	8.2	
1/7/2010	9.0	10.2	9.3	9.5	9.4	8.9	8.4	8.4	
1/8/2010	8.8	9.7	9.0	9.5	9.4	8.8	8.3	8.3	
1/9/2010	8.8	9.2	8.9	9.6	9.0	9.6	8.8	8.8	
1/10/2010	8.2	8.6	8.4	8.1	7.5	8.4	9.1	7.5	
1/11/2010	8.5	8.8	8.8	8.4	9.0	9.1	8.8	8.4	
1/12/2010	8.2	8.8	8.4	9.0	8.2	8.9	8.2	8.2	
1/13/2010	7.5	7.9	7.6	8.0	7.8	8.4	8.5	7.5	
1/14/2010	8.2	9.4	8.8	9.2	8.8	8.7	9.4	8.2	
1/15/2010	8.7	8.8	8.1	8.4	8.2	8.5	8.9	8.1	
1/16/2010	8.5	8.3	8.0	8.2	8.0	7.8	7.8	7.8	
1/17/2010	8.0	8.1	9.7	7.6	7.8	7.8	7.6	7.6	
1/18/2010	7.4	NS	8.2	8.7	8.6	8.4	8.0	7.4	
1/19/2010	8.4	8.5	8.3	8.5	8.3	8.5	8.1	8.1	
1/20/2010	8.5	8.5	8.2	8.6	8.5	8.4	8.1	8.1	
1/21/2010	8.4	8.5	8.8	8.8	8.8	8.4	7.8	7.8	
1/22/2010	8.4	8.3	8.5	8.5	8.4	8.7	7.9	7.9	
1/23/2010	8.8	8.9	9.0	8.9	9.0	8.6	8.8	8.6	
1/24/2010	8.7	9.0	8.3	8.4	8.2	9.1	8.3	8.2	
1/25/2010	8.9	8.4	7.5	7.5	7.2	7.6	7.9	7.2	
1/26/2010	8.1	8.6	8.8	9.0	9.1	9.0	8.4	8.1	
1/27/2010	9.2	9.1	9.1	9.3	9.2	13.3	8.5	8.5	
1/28/2010	8.8	9.1	9.0	9.0	8.6	8.9	8.5	8.5	
1/29/2010	8.5	9.2	9.4	10.0	9.6	9.7	8.8	8.5	
1/30/2010	9.7	9.8	9.8	9.8	9.8	9.6	9.3	9.3	
1/31/2010	9.5	9.0	9.8	9.8	9.6	9.4	9.3	9.0	
Min	7.40	7.90	7.50	7.50	7.20	7.60	7.6	Min	7.20
Max	10.70	10.20	9.80	10.00	9.80	13.30	9.4	Max	9.28
								Avg	8.20

January 2010
Total Residual Chlorine

	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average
1-Jan	0.00	0.01	0.02	0.03	0.01	0.00	0.01
2-Jan	0.00	0.03	0.01	0.01	0.00	0.02	0.01
3-Jan	0.00	0.01	0.00	0.00	0.01	0.00	0.00
4-Jan	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-Jan	0.00	0.01	0.00	0.01	0.00	0.00	0.00
6-Jan	0.00	0.00	0.01	0.00	0.00	0.00	0.00
7-Jan	0.01	0.00	0.00	0.03	0.03	0.03	0.02
8-Jan	0.00	0.01	0.01	0.02	0.02	0.01	0.01
9-Jan	0.01	0.01	0.01	0.00	0.00	0.01	0.01
10-Jan	0.00	0.02	0.01	0.02	0.01	0.00	0.01
11-Jan	0.00	0.00	0.00	0.00	0.01	0.01	0.00
12-Jan	0.01	0.00	0.01	0.01	0.02	0.00	0.01
13-Jan	0.00	0.00	0.00	0.16	0.00	0.01	0.03
14-Jan	0.01	0.01	0.01	0.02	0.04	0.01	0.02
15-Jan	0.02	0.03	0.01	0.01	0.00	0.00	0.01
16-Jan	0.01	0.00	0.01	0.01	0.01	0.02	0.01
17-Jan	0.03	0.01	0.01	0.00	0.01	0.00	0.01
18-Jan	0.01	0.02	0.01	0.00	0.01	0.02	0.01
19-Jan	0.02	0.01	0.02	0.01	0.00	0.01	0.01
20-Jan	0.02	0.05	0.02	0.01	0.00	0.01	0.02
21-Jan	0.01	0.04	0.01	0.00	0.03	0.01	0.02
22-Jan	0.01	0.02	0.02	0.01	0.00	0.03	0.02
23-Jan	0.02	0.02	0.01	0.01	0.01	0.01	0.01
24-Jan	0.03	0.03	0.03	0.01	0.01	0.02	0.02
25-Jan	0.04	0.01	0.01	0.01	0.00	0.02	0.02
26-Jan	0.00	0.00	0.01	0.01	0.01	0.00	0.01
27-Jan	0.02	0.02	0.01	0.01	0.01	0.02	0.02
28-Jan	0.00	0.01	0.00	0.00	0.00	0.01	0.00
29-Jan	0.01	0.00	0.00	0.00	0.00	0.01	0.00
30-Jan	0.02	0.01	0.01	0.01	0.01	0.01	0.01
31-Jan	0.03	0.01	0.01	0.01	0.00	0.00	0.01
Average	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	
Maximum	0.04	0.05	0.03	0.16	0.04	0.03	

0.01

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* January 2010

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to Incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 21.29	X 0.01	= 0.00
0.00	X 21.29	X 0.01	= 0.00
0.00	X 21.29	X 0.01	= 0.00
907.82	X 21.29	X 0.01	= 193.27
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 193.27

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	193.27
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Deborah A. Klinger
Signature

Utilities Manager
Title

610-655-6258
Telephone

02/22/2010
Date

City of Reading 3-C Watershed *for the Month* January 2010

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001A
PERMIT NUMBER	DISCHARGE NUMBER

RECEIVED
EPA REGION III
JAN 29 2010
WATER PROTECTION DIVISION
(3WP00)

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	12/01/2009	TO	12/31/2009

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	55	******		0	DAILY	COMP24
00080 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.1	******	******		0	7/Daily	GRAB
00300 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.1	******	7.9		0	Daily	GRAB
00400 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	2226	2842		******	13	15		0	Daily	COMP24
00530 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	1045	******		******	6.2	******		0	Daily	COMP24
00610 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	19.81	39.47		******	******	******	******	0	Continuous	MEASRD
50050 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.02	******		0	2/Shift	GRAB
50060 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Deborah A.S. Hoag, P.E. Utilities Division Mngr	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Deborah A.S. Hoag	610-655-6258		01/25/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	12/01/2009	TO	12/31/2009

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.01107	******		******	<0.00007	******		0	Weekly	COMP24
71900 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	4	******		0	Daily	GRAB
74055 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	2467	3169		******	15	16		0	Daily	COMP24
80082 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Deborah A.S. Hoag, P.E. Utilites Division Mngr	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Deborah A.S. Hoag	610-655-6258		01/25/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

	December 2009					City of Reading Wastewater Treatment Plant									
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC		FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L		#/100ml	Pt-Co	inches	(°F)	(°F)
29-Nov	15.2	24	14	12	7.6	14.84	8.6	7.3	0.39		5	65			
30-Nov	17.2	23	16	21	6.9	16.48	7.5	7.6	0.30		9	65			
1-Dec	16.3	25	14	13	6.2	14.35	7.2	7.4	0.24		15	60	0.00	29	50
2-Dec	15.3	21	14	22	8.0	24.34	7.6	7.4	0.31		40	65	0.54	27	57
3-Dec	17.8	30	20	18	5.6	23.77	6.1	7.4	2.80		9	42	0.80	45	62
4-Dec	16.7	20	13	12	2.3	15.45	7.3	7.7	0.98		4	50	0.00	31	50
5-Dec	15.5	23	18	9	3.3	18.66	7.9	7.2	0.98		1	60	0.26	32	41
6-Dec	14.9	22	18	12	1.8	18.07	7.8	7.3	1.08		1	60	0.16	25	39
7-Dec	14.0	21	15	11	3.8	18.04	8.3	7.4	0.96		3	50	0.09	24	38
8-Dec	17.1	27	18	15	5.5	20.19	8.1	7.9	0.61		3	50	0.00	28	48
9-Dec	16.3	28	24	24	7.5	39.47	6.9	7.3	1.86		3	42	1.27	32	57
10-Dec	16.2	15	14	9	3.6	21.04	9.0	7.2	1.19		1	50	0.00	24	42
11-Dec	12.8	18	13	16	6.7	18.17	9.0	7.4	0.87		4	75	0.00	18	31
12-Dec	11.9	18	13	14	5.4	17.14	8.4	7.4	0.80		3	75	0.00	18	43
13-Dec	14.9	22	18	21	8.1	27.93	6.4	7.3	0.70		1	60	1.01	23	39
14-Dec	16.6	18	11	14	6.9	21.32	7.2	7.2	1.27		18	42	0.00	34	51
15-Dec	16.7	23	16	10	8.7	19.74	7.9	7.1	1.16		2	50	0.00	37	50
16-Dec	15.0	21	12	9	9.2	17.42	8.1	7.4	0.75		4	60	0.00	26	37
17-Dec	14.5	23	12	13	9.9	17.13	8.3	7.7	0.78		5	60	0.00	23	36
18-Dec	13.6	25	15	15	8.0	16.37	6.8	7.3	0.65		4	60	0.00	18	37
19-Dec	13.1	20	11	13	6.1	16.14	8.9	7.4	0.50		5	60	0.00	20	29
20-Dec	11.4	21	13	10	6.0	17.43	7.4	7.3	0.50		4	60	0.05	21	36
21-Dec	14.0	26	14	8	7.9	17.46	8.9	7.3	0.67		3	50	0.05	25	40
22-Dec	14.0	20	13	11	8.0	16.87	8.0	7.2	0.70		13	60	0.03	22	38
23-Dec	13.3	22	14	7	7.2	14.84	8.2	7.3	0.49		11	50	0.00	19	32
24-Dec	11.8	20	12	4	5.8	15.29	9.3	7.3	0.38		5	65	0.00	19	47
25-Dec	15.7	21	11	9	4.6	19.49	9.7	7.7	0.31		39	60	0.25	20	39
26-Dec	16.5	21	14	18	8.0	32.17	8.5	7.7	1.02		2	50	0.74	38	48
27-Dec	16.9	16	10	9	2.3	22.21	8.4	7.6	0.96		1	42	0.00	28	50
28-Dec	12.8	21	13	12	5.0	19.63	9.0	7.3	0.70		1	42	0.00	29	40
29-Dec	12.1	24	16	14	9.0	18.30	8.7	7.5	0.95		6	42	0.00	18	32
30-Dec	12.6	24	18	9	6.4	17.50	9.0	7.4	0.72		3	50	0.00	14	36
31-Dec	15.0	19	13	11	6.9	18.11	8.2	7.3	0.56		2	60	0.18	26	33
1-Jan	12.8	20	12	8	3.2	17.66	8.1	7.2	0.45		1	50			
2-Jan	12.2	21	13	10	3.4	16.95	8.6	7.4	0.60		3	50			
TOTAL		675	450	392	193.6	614.0	#####	229.0	26.45			1702	5.43		
Week 1	15.8	23	16	15	4.4	18.95	7.5	7.4	1.05		10	55	0.26	30	48
Week 2	15.1	21	16	14	6.2	23.61	7.9	7.4	1.04		5	56	0.33	25	44
Week 3	14.0	23	14	14	8.0	17.38	8.0	7.4	0.72		4	57	0.01	24	38
Week 4	14.4	20	13	10	5.8	20.07	8.7	7.4	0.65		10	53	0.15	25	42
Week 5			14	10											
Monthly	14.7	22	15	13	6.2	19.81	8.1	7.4	0.85		4	55	0.18	26	42
	Weekly averages: 11/29-12/5, 12/6-12/12, 12/13-12/19, 12/20-12/26, 12/27-1/2/2010														
Min =	11.4	15	10	4	1.8	14.35	6.1	7.1	0.24		1	42	0.00	14	29
Max =	17.8	30	24	24	9.9	39.47	9.7	7.9	2.80		40	75	1.27	45	62
						See DO profile					<				
DISCHARGE LIMITATIONS															
Ave Monthly:			25	30	18		Min.	6.0			10,000	186			
Ave Weekly:			40	45			of	to							
Inst. Max:			50	60	24		5.0	9.0				465			

Print Date: 1/14/2010

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
29-Nov							2,970	1,733						1,485								939
30-Nov							3,161	2,199						2,886								946
1-Dec	5,810	43,760	49,570	-180		49,389	2,992	1,676	4,684	31,045	35,729	31,735	67,464	1,556	4,316	588	1,849	2437	2,954	316	5,391	738
2-Dec	7,289	52,375	59,664	-4,428		55,237	4,263	2,842	8,383	147,960	156,342	-72,651	83,692	4,466	3,490	773	2,187	2,959	2,815	461	5,775	1,624
3-Dec	6,079	59,214	65,293	-9,317	341	55,976	5,947	3,965	4,699	59,569	64,268	332	64,600	3,568	6,818	578	1,622	2,201	2,640	376	4,841	1,100
4-Dec	7,425	53,243	60,668	879		61,547	2,577	1,675	8,270	33,562	41,832	17,543	59,374	1,546	4,615	571	1,521	2,092	3,157	251	5,250	298
5-Dec	7,958	49,480	57,438	-8,194		49,244	3,579	2,801	6,859	32,265	39,124	10,121	49,244	1,401	2,982	677	1,886	2,564	895	74	3,459	514
6-Dec	7,448	39,832	47,280	1,937	135	49,218	3,315	2,713	11,776	158,126	169,902	-92,708	77,194	1,808	2,972	615	1,731	2,347	1,422	65	3,769	274
7-Dec	5,949	39,323	45,272	-5,142		40,130	3,160	2,257	5,658	38,748	44,405	-8,680	35,726	1,655	5,394	563	1,650	2,213	2,510	251	4,723	564
8-Dec	7,454	47,035	54,489	2,842		57,331	4,546	3,031	7,323	58,616	65,939	17,039	82,979	2,526	3,316	709	2,044	2,754	2,240	190	4,994	929
9-Dec	16,802	48,394	65,196	-11,570		53,626	9,217	7,900	6,559	39,864	46,423	-3,951	42,472	7,900	3,561	570	1,657	2,227	1,720	333	3,947	2,462
10-Dec	8,316	53,192	61,508	-15,901	427	45,606	2,632	2,457	5,499	18,787	24,286	18,378	42,664	1,579	4,477	618	1,630	2,247	3,976	1,048	6,223	628
11-Dec	6,158	50,415	56,574	-11,573		45,001	2,728	1,970	5,685	38,921	44,605	-10,431	34,175	2,425	3,046	586	1,765	2,351	1,941	51	4,291	1,015
12-Dec	7,890	37,080	44,969	36,716		81,685	2,573	1,858	6,771	24,149	30,920	31,458	62,378	2,001	3,183	631	1,987	2,618	1,887	718	4,505	775
13-Dec	8,162	44,416	52,577	2,323	296	54,901	5,125	4,193	11,118	59,968	71,086	11,449	82,535	4,892	6,574	737	1,920	2,656	3,073	180	5,730	1,884
14-Dec	5,697	39,115	44,812	2,438		47,250	3,201	1,956	5,317	54,537	59,854	7,729	67,583	2,489	5,304	611	1,676	2,287	3,110	995	5,398	1,234
15-Dec	5,188	43,435	48,623	16,109		64,732	3,787	2,634	5,345	27,095	32,440	57,915	90,355	1,646	7,713	560	1,686	2,245	3,729	1,270	5,974	1,426
16-Dec	5,104	39,058	44,162	534		44,695	3,051	1,743	5,164	21,743	26,908	23,277	50,184	1,308	11,869	600	1,822	2,422	2,700	1,273	5,123	1,335
17-Dec	7,111	45,587	52,698	-5,819	514	46,878	3,286	1,714	5,689	21,727	27,415	27,780	55,196	1,857	9,119	778	2,328	3,106	2,956	454	6,061	1,417
18-Dec	7,605	54,944	62,549	-3,835		58,714	3,413	2,048	4,158	26,301	30,459	22,383	52,842	2,048	5,650	580	1,693	2,273	1,625	66	3,899	1,091
19-Dec	7,012	53,112	60,124	-29,204		30,920	2,692	1,481	6,390	27,106	33,495	-2,096	31,400	1,750	5,494	625	1,905	2,530	970	63	3,499	817
20-Dec	9,993	33,725	43,718	16,050	668	59,768	3,053	1,890	8,061	19,382	27,443	19,624	47,067	1,454	15,425	638	1,977	2,615	1,245	146	3,860	872
21-Dec	3,974	38,231	42,205	-8,200		34,005	3,786	2,039	2,885	12,998	15,884	13,120	29,004	1,165	9,818	683	1,950	2,633	3,068	845	5,701	1,155
22-Dec	7,293	57,437	64,730	-23,967	693	40,763	2,814	1,829	8,477	88,886	97,362	-25,206	72,157	1,548	8,722	616	1,817	2,434	3,431	1,221	5,865	1,126
23-Dec	9,488	39,969	49,457	5,827		55,284	2,723	1,733	4,955	18,652	23,607	38,588	62,195	866	5,529	582	1,768	2,350	1,347	210	3,697	890
24-Dec	7,028	40,282	47,310	6,313		53,623	2,550	1,530	5,676	27,847	33,523	152,218	185,740	510	499	613	1,856	2,469	474	18	2,944	743
25-Dec	7,839	37,601	45,440	29,924		75,364	3,413	1,788	14,185	28,174	42,360	229,637	271,997	1,463	0	722	2,140	2,861	2,579		5,440	741
26-Dec	6,052	34,035	40,087	3,015		43,102	5,634	3,756	6,736	31,745	38,481	155,272	193,754	4,829	3,353	695	1,999	2,694	1,288	182	3,982	2,157
27-Dec	5,842	44,632	50,474	-3,702	446	46,772	2,964	1,852	6,387	26,895	33,282	54,531	87,813	1,667	5,467	701	1,936	2,637	1,761	138	4,398	433
28-Dec	8,295	66,203	74,498	-16,663		57,835	3,438	2,128	6,993	29,213	36,206	110,542	146,748	1,965	10,121	648	1,923	2,571	3,728	1,166	6,299	814
29-Dec	6,131	36,844	42,976	-15,723	543	27,252	3,663	2,442	6,351	21,310	27,661	-1,719	25,942	2,137	5,042	758	2,101	2,859	3,247	457	6,106	1,369
30-Dec	6,340	37,795	44,135	14,331		58,467	3,503	2,627	5,012	39,540	44,551	99,455	144,006	1,314	7,020	589	1,696	2,285	2,342	809	4,626	938
31-Dec	7,286	55,044	62,330	-38,851		23,479	2,870	1,963	3,400	23,018	26,418	-13,114	13,305	1,661	454	634	1,871	2,506	325	25	2,830	1,039
1-Jan							2,946	1,767						1,178								474
2-Jan							2,969	1,838						1,414								476
TOTAL	226,019	1,414,805	1,640,824	-73,030	4,064	1,567,794	112,494	76,491	204,462	1,287,750	1,492,212	919,571	2,411,783	69,000	171,343	19,849	57,594	77,443	71,157	13,652	148,600	32,405
Week 1	6,851	48,175	55,026	-3,492	238	51,534	3,691	2,413	7,190	71,611	78,800	-16,330	62,471	2,415	4,370	624	1,778	2,402	2,342	256	4,744	730
Week 2	8,640	45,664	54,304	754	362	55,057	4,289	3,169	6,896	42,120	49,016	10,239	59,255	2,842	4,209	638	1,811	2,449	2,564	502	5,013	1,275
Week 3	6,570	44,013	50,583	-2,052	591	48,530	3,295	2,253	5,384	22,336	27,721	23,143	50,864	2,284	9,298	638	1,909	2,546	2,328	588	4,874	1,159
Week 4	7,405	45,737	53,142	107	569	53,249	3,362	2,081	7,630	35,916	43,546	102,226	145,772	1,691	4,813	654	1,920	2,574	2,087	489	4,661	986
Week 5								2,088						1,619								
Monthly	7,291	45,639	52,930	-2,356	452	50,574	3,629	2,467	6,596	41,540	48,136	29,664	77,799	2,226	5,527	640	1,858	2,498	2,295	455	4,794	1,045
Min =	3974	33725	40087	-38851	135	23,479	2,550	1,481	2,885	12,998	15,884	-92,708	13,305	510	0	560	1,521	2,092	325	18	2,830	274
Max =	16802	66203	74498	36716	693	81,685	9,217	7,900	14,185	158,126	169,902	229,637	271,997	7,900	15,425	778	2,328	3,106	3,976	1,273	6,299	2,462
								4,170						7,130								3,000
								6,255						10,696								

Print Date: 1/14/2010

	GC Mercury (Hg)				6th St Mercury (Hg)		Inf. Mercury (Hg)				Eff. Mercury (Hg)			
DATE		mg/L		lbs/day	mg/L	lbs/day	mg/L		lbs/day		mg/L		lbs/day	
29-Nov														
30-Nov														
1-Dec		0.00010		0.00225	0.00010	0.00826	0.00050		0.05254	<	0.00007	<	0.00838	
2-Dec		0.00020		0.00729	0.00140	0.18331	0.00030	#	0.05022	<	0.00007	<	0.01421	
3-Dec														
4-Dec														
5-Dec														
6-Dec														
7-Dec														
8-Dec	<	0.00007	<	0.00229	0.00010	0.01182	0.00040		0.06035	<	0.00007	<	0.01179	
9-Dec														
10-Dec														
11-Dec														
12-Dec														
13-Dec														
14-Dec														
15-Dec	<	0.00007	<	0.00220	0.00020	0.02068	0.00009		0.01214	<	0.00007	<	0.01152	
16-Dec														
17-Dec														
18-Dec														
19-Dec														
20-Dec														
21-Dec														
22-Dec		0.00010		0.00275	0.00010	0.00942	0.00030		0.03650	<	0.00007	<	0.00985	
23-Dec														
24-Dec														
25-Dec														
26-Dec														
27-Dec														
28-Dec														
29-Dec		0.00020		0.00629	0.00010	0.00996	0.00010		0.01310	<	0.00007	<	0.01068	
30-Dec														
31-Dec														
1-Jan														
2-Jan														
Total		0.00074		0.02307	0.00200	0.24344	0.00169		0.22485		0.00042		0.06643	
Week 1		0.00015		0.00477	0.00075	0.09578	0.00040		0.05138	<	0.00007	<	0.01129	
Week 2	<	0.00007	<	0.00229	0.00010	0.01182	0.00040		0.06035	<	0.00007	<	0.01179	
Week 3	<	0.00007	<	0.00220	0.00020	0.02068	0.00009		0.01214	<	0.00007	<	0.01152	
Week 4		0.00010		0.00275	0.00010	0.00942	0.00030		0.03650	<	0.00007	<	0.00985	
Week 5		0.00020		0.00629	0.00010	0.00996	0.00010		0.01310	<	0.00007	<	0.01068	
Monthly	<	0.00012	<	0.00385	0.00033	0.04057	0.00028		0.03747	<	0.00007	<	0.01107	
Min =	<	0.00007	<	0.00220	0.00010	0.00826	0.00009		0.01214	<	0.00007	<	0.00838	
Max =		0.00020		0.00729	0.00140	0.18331	0.00050		0.06035	<	0.00007	<	0.01421	
											0.00023		0.055	
											0.00046			

Print Date: 1/14/2010

	December 2009				City of Reading Wastewater Treatment Plant																		Laboratory Process Control Data								
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent				Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
29-Nov	265	257	7.2	24.9	470	388	7.0	23.9							480	664	46.0	7.0		268	87	26.0	6.5	71	81	21.1		7.0	34	21	15.5	
30-Nov	255	260	7.5	23.1	480	550	7.2	19.2							375	444	36.8	7.0		280	93	22.3	6.7	60	41	16.7	300	7.2	35	23	12.6	240
1-Dec	258	208	7.5	26.1	530	376	7.0	22.4	472	340	23.2	-2	302	28.1	470	642	51.3	6.7	12.60	290	88	30.1	6.4	70	49	20.7		6.7	38	24	15.1	
2-Dec	200	230	7.5	21.2	400	1130	7.2	16.7	356	934	17.7	-26	-434	16.8	330	500	34.5	7.0	20.07	NS	NS	NS	6.6	39	37	19.0	300	7.2	31	22	14.2	280
3-Dec	185	143	7.6	17.6	500	503	7.4	13.7	432	425	14.5	-62	2	17.5	370	427	32.0	6.9	18.14	230	95	19.5	6.2	36	39	13.2		6.9	38	38	8.3	
4-Dec	290	323	7.5	22.3	560	353	7.3	16.0	503	347	17.3	7	145	26.2	510	492	43.5	7.0	14.47	263	88	24.5	6.7	41	43	16.2	300	7.0	NS	NS	NS	220
5-Dec	275	237	7.4	23.4	480	313	7.1	18.3	435	296	19.4	-62	77	6.8	373	373	26.2	7.0	15.83	268	104	21.6	6.6	43	22	15.1		7.1	34	15	10.7	
6-Dec	253	400	7.8	20.9	398	1580	7.5	17.3	365	1312	18.1	15	-716	11.0	380	596	29.1	7.1	15.53	218	76	19.4	6.7	36	32	15.1		7.2	26	14	9.7	
7-Dec	225	214	7.6	21.3	410	404	7.3	17.2	370	363	18.1	-42	-71	20.5	328	292	38.6	7.0	14.67	245	82	23.2	6.4	NS	NS	NS	280	7.0	NS	NS	NS	200
8-Dec	228	224	7.5	21.7	398	496	7.1	17.3	361	437	18.3	19	113	14.8	380	550	33.1	7.0	18.09	238	85	22.8	6.6	54	50	16.5		7.2	36	21	11.4	
9-Dec	333	130	7.1	11.3	295	243	7.1	10.1	304	216	10.4	-54	-18	8.0	250	198	18.4	7.0	25.72	ns	NS	NS	6.8	56	43	10.2	260	7.1	36	27	9.0	220
10-Dec	245	162	7.5	18.2	470	166	7.4	14.4	418	165	15.3	-108	125	27.0	310	290	42.3	7.1	17.64	218	75	20.3	6.5	54	45	14.7		7.0	33	19	7.6	
11-Dec	208	192	7.4	19.8	500	386	7.1	17.5	434	342	18.0	-89	-80	14.9	345	262	32.9	7.0	15.64	185	77	29.5	6.8	70	63	18.2	300	7.0	31	21	14.6	200
12-Dec	275	236	7.1	22.0	390	254	7.1	20.9	363	250	21.2	297	254	15.2	660	504	36.4	6.9	14.84	235	93	23.2	6.8	52	45	19.0		7.0	34	25	13.7	
13-Dec	185	252	6.8	16.7	317	428	6.9	13.7	285	386	14.4	13	62	16.7	298	448	31.1	6.7	22.09	180	101	18.3	6.6	55	53	16.1		6.9	37	31	12.1	
14-Dec	165	154	7.3	17.7	350	488	7.1	15.0	306	409	15.6	17	53	21.3	323	462	36.9	7.3	17.54	193	86	20.9	6.9	44	47	18.1	210	7.2	30	20	13.9	180
15-Dec	165	170	7.3	17.8	420	262	7.3	16.3	361	241	16.6	119	429	27.7	480	670	44.3	7.2	16.17	213	69	22.1	7.0	58	60	18.3		7.3	36	25	14.6	
16-Dec	170	172	7.5	20.0	388	216	7.1	18.1	338	206	18.5	4	178	20.7	342	384	39.2	7.4	15.67	192	83	23.3	6.8	47	47	20.5	280	7.1	30	17	16.8	260
17-Dec	245	196	7.0	26.8	470	224	7.3	24.0	418	218	24.6	-46	220	23.5	372	438	48.1	6.3	15.11	225	82	30.5	6.5	50	52	27.0		7.0	38	27	20.2	
18-Dec	278	152	7.8	21.2	610	292	7.9	18.8	533	259	19.4	-33	191	13.8	500	450	33.2	7.5	14.08	268	89	23.3	6.7	40	27	19.4	280	7.3	37	25	14.8	200
19-Dec	248	226	7.4	22.1	580	296	7.4	20.8	502	279	21.1	-244	-17	8.1	258	262	29.2	6.8	14.37	225	85	21.3	6.5	38	17	16.7		7.4	26	12	13.2	
20-Dec	362	292	7.1	23.1	348	200	6.9	20.4	351	220	21.0	129	158	10.0	480	378	31.0	7.1	14.93	212	97	22.5	6.6	56	36	19.5		7.2	32	20	14.6	
21-Dec	135	98	7.0	23.2	400	136	7.2	20.4	338	127	21.1	-66	105	24.5	272	232	45.6	6.9	14.99	212	88	28.5	6.7	45	40	23.9	240	7.1	33	16	19.1	200
22-Dec	265	308	7.0	22.4	610	944	7.3	19.3	532	800	20.0	-197	-207	28.2	335	593	48.2	7.1	14.59	233	78	27.1	6.6	45	41	22.1		7.1	32	21	15.6	
23-Dec	360	188	7.7	22.1	450	210	7.3	19.9	429	205	20.4	51	335	11.7	480	540	32.1	7.2	13.81	245	74	24.2	6.6	50	39	19.9	320	7.1	34	13	15.3	220
24-Dec	265	214	7.4	23.1	460	318	7.3	21.2	415	294	21.6	55	1334	4.2	470	1628	25.8	6.7	13.68	203	68	22.6	7.2	45	34	18.7		7.4	34	11	14.5	
25-Dec	252	456	7.2	23.2	355	266	7.5	20.2	332	309	20.9	218	1676	18.8	550	1985	39.7	7.0	16.43	202	63	25.1	6.6	42	26	19.7		7.2	36	15	13.7	
26-Dec	115	128	7.6	13.2	223	208	7.5	13.1	195	187	13.1	15	757	6.3	210	944	19.4	7.9	24.61	130	72	16.1	7.4	42	41	15.8		7.5	33	25	13.5	
27-Dec	150	164	7.3	18.0	385	232	7.5	16.7	326	215	17.0	-24	352	11.4	302	567	28.4	7.1	18.57	130	72	16.6	7.0	32	29	13.7		7.1	18	8	8.8	
28-Dec	242	204	7.3	18.9	630	278	7.5	18.3	535	260	18.4	-120	793	26.8	415	1053	45.2	7.2	16.71	195	74	24.4	7.1	34	34	20.1	200	7.2	35	29	13.7	180
29-Dec	195	202	7.6	24.1	370	214	7.2	21.1	328	211	21.8	-120	-13	24.8	208	198	46.6	7.2	15.71	223	69	27.2	7.0	58	50	22.8		7.7	29	6	18.1	
30-Dec	210	166	7.2	19.5	390	408	9.4	17.5	347	351	18.0	113	782	18.4	460	1133	36.4	7.6	15.24	215	82	23.4	7.0	71	37	19.2	240	7.4	36	23	13.7	180
31-Dec	240	112	7.3	20.9	550	230	7.1	18.7	478	203	19.2	-298	-101	2.5	180	102	21.7	7.2	15.64	198	69	21.9	6.7	42	36	19.2		6.9	ns	ns	ns	
1-Jan	273	112	7.4	30.3	378	230	7.2	21.1							330	102	20.4	7.1		188	69	18.6	6.6	35	36	16.3	200	7.2	27	n.s.	10.9	180
2-Jan	212	250	7.7	24.5	390	300	7.4	23.3							410	588	33.6	7.3		215	74	23.3	6.8	54	26	19.3		7.3	32	13	14.3	
TOTAL	7222	6553	228.4	639.8	13637	12054	227.1	555.3	12161	10807	574.4	-520	6786	526.0	11641	17593	1100.4	####	513.18	6284	2364	673.4	####	1445	1214	548.6	3210.0	221.2	923	570	380.5	2540.0
Week 1	241	251	7.6	21.8	468	666	7.3	17.4	419	574	18.3	-25	-99	18.1	394	475	36.5	7.0	15.90	252	89	23.1	6.5	44	37	16.6	293.3	7.0	33	23	11.6	233.3
Week 2	234	193	7.3	18.2	389	352	7.1	15.6	353	315	16.2	13	73	16.9	367	388	33.0	7.0	18.79	208	86	22.5	6.7	55	49	16.1	256.7	7.0	34	23	11.8	200.0
Week 3	229	187	7.3	22.0	459	232	7.3	19.8	406	221	20.3	-19	181	18.3	386	402	38.7	7.0	15.05	221	85	24.5	6.7	48	40	20.8	266.7	7.2	33	20	16.2	220.0
Week 4	236	237	7.4	20.1	445	351	7.4	18.4	395	324	18.8	0	720	15.3	395	1044	34.1	7.2	16.91	191	72	22.3	6.9	41	35	18.6	260.0	7.2	32	17	13.6	200.0
Week 5																																
Monthly	233	211	7.4	20.6	440	389	7.3	17.9	392	349	18.5	-17	219	17.0	376	568	35.5	7.1	16.55	217	82	23.2	6.7	48	40	18.3	267.5	7.1	33	20	13.6	211.7
															samples contained grease - unable to remove																	
Min =	115	98	6.8	11	223	136	6.9	10	195	127	10.4	-298	-716	2.5	180	102	18.4	6.3	12.60	130	63	16.1	6.2	32	17	10.2	200.0	6.7	18	6	7.6	180.0
Max =	362	456	7.8	27	630	1580	9.4	24	535	1312	24.6	297	1676	28.2	660	1985	51.3	7.9	25.72	290	104	30.5	7.4	71	63	27.0	320.0	7.7	38	38	20.2	280.0
									%Removal						%Removal																	
									94.45	96.37	66.30				94.20	97.77	82.41															

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		Final Settling								Filtrate		
chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
120	7.1	35	16	19	7.8				6.7	94		256.0
125	7.0	31	15	15	7.8	180	6.7	0.446	7.1			38.9
145	7.1	34	14	18	6.8		6.7	0.446	6.9		900	65.8
135	7.2	29	17	19	8.5	200			7.3		900	119.0
125	7.0	36	19	27	5.5				6.9	75	1500	82.8
NS	7.1	30	16	23	3.4	180			7.0		1100	59.9
150	7.4	34	19	15	3.9				7.3		1200	29.6
160	7.4	26	16	15	2.7				7.1	41	900	19.7
NS	6.8	20	12	6	5.9	180	3.0	0.368	6.5		1200	55.8
145	7.2	34	18	17	5.5				7.3		800	45.8
150	7.3	40	22	26	5.7	240			7.3		1000	93.4
145	7.6	24	12	11	3.8				6.9	105	1100	257.5
140	6.9	31	19	20	8.1	180			6.9		1100	18.3
145	6.9	26	16	11	6.9				6.8		1100	248.0
110	6.8	30	20	22	7.5				6.8	63	1400	38.3
135	7.1	28	13	12	7.5	140			7.1		1000	187.6
150	7.4	26	14	9	8.9		7.1	0.440	7.4		1600	263.5
130	7.4	30	14	14	9.9	220			7.1		2400	257.4
130	7.0	31	14	16	11.4				6.8	124	2200	109.6
135	7.4	33	18	27	8.0	120			7.3		2500	29.2
145	7.2	29	18	17	6.3				7.4		2700	30.9
175	7.2	26	14	11	6.9				7.0	195	4500	42.5
260	6.9	20	11	7	10.5	180			6.9		1800	155.0
230	7.3	28	17	18	9.1		8.6	0.439	7.1	143	1800	252.0
190	7.5	29	16	14	7.2	200			7.4		1300	49.4
165	7.5	30	13	4	7.0				7.2		1300	47.2
140	7.7	12	13	5	5.4				7.1			
215	7.7	32	14	15	8.5				7.3		1500	81.5
180	7.3	18	14	7	2.6				7.2	155	1900	47.9
155	7.4	24	13	13	6.9	180			7.2		1500	172.8
145	7.7	24	17	6	10.7		8.1	0.518	7.4	140	1300	117.8
145	7.5	33	21	12	7.0	140			7.3		1900	219.0
ns	7.0	24	15	10	7.6				6.6		1700	94.2
250	6.2	25	13	10	3.9	160			7.1			
200	7.4	24	14	14	5.8				7.0			133.0
4375.0	224.6	871	489	447	215.5	2160.0	33.5	2.211	219.6	1041	47100	3291.4
143.0	7.1	30	16	18	5.2	186.7	4.9	0.407	7.0	58	1100	61.8
138.6	7.1	30	17	17	6.4	186.7	#DIV/0!	#DIV/0!	7.0	84	1071	127.0
160.7	7.2	28	15	14	8.8	173.3	7.1	0.440	7.1	160	2529	126.9
182.1	7.5	25	14	11	6.7	190.0	8.6	0.439	7.2	149	1550	108.5
156.3	7.2	28	16	14	7.0	180.0	6.7	0.442	7.1	116	1570	109.7
110.0	6.8	12	11	4	2.6	120.0	3.0	0.368	6.5	41	800	18.3
260.0	7.7	40	22	27	11.4	240.0	8.6	0.518	7.4	195	4500	263.5

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December 2009

DATE	Flow (MGD) 6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
29-Nov							14.840											
30-Nov							16.480											
1-Dec	9.900	2.362	0.952	2.700		12.600	14.350	2.490	6.030	0.575	19.762	47.857						
2-Dec	15.700	2.374	0.630	4.370		20.070	24.340	2.160	4.700	0.465	10.762	23.418						
3-Dec	14.200	2.615	0.688	3.940		18.140	23.770	4.080	4.170	0.545	22.492	22.988						
4-Dec	11.400	1.794	0.580	3.070		14.470	15.450	2.230	5.940	0.503	15.411	41.050						
5-Dec	12.360	2.284	0.566	3.470		15.830	18.660	2.150	6.490	0.298	13.582	40.998						
6-Dec	12.000	2.373	0.697	3.530		15.530	18.070	2.340	6.530	0.396	15.068	42.048						
7-Dec	11.500	2.021	0.673	3.170		14.670	18.040	2.590	6.250	0.539	17.655	42.604						
8-Dec	14.170	3.115	0.879	3.920		18.090	20.190	2.880	5.980	0.497	15.920	33.057						
9-Dec	19.670	3.258	0.748	6.050		25.720	25.720	0.970	1.460	0.427	3.771	5.677	10:00	11:30				
10-Dec	13.570	2.613	0.749	4.070		17.640	21.040	0.980	6.450	0.488	5.556	36.565						
11-Dec	12.090	2.221	0.608	3.550		15.640	18.170	0.980	6.410	0.332	6.266	40.985						
12-Dec	11.400	2.184	0.588	3.440		14.840	17.140	1.890	6.420	0.347	12.736	43.261						
13-Dec	16.800	3.332	0.830	5.290		22.090	22.090	2.090	3.110	0.563	9.461	14.079						
14-Dec	13.400	2.699	0.645	4.140		17.540	21.320	0.940	7.460	0.636	5.359	42.531						
15-Dec	12.400	2.369	0.713	3.770		16.170	19.740	2.160	7.560	0.578	13.358	46.753						
16-Dec	12.070	2.382	0.722	3.600		15.670	17.420	1.420	7.210	0.593	9.062	46.011						
17-Dec	11.630	2.288	0.710	3.480		15.110	17.130	2.660	7.270	0.497	17.604	48.114						
18-Dec	10.800	2.098	0.586	3.280		14.080	16.370	1.210	7.160	0.271	8.594	50.852						
19-Dec	10.980	2.152	0.521	3.390		14.370	16.140	0.000	7.210	0.244	0.000	50.174						
20-Dec	11.620	2.506	0.682	3.310		14.930	17.430	0.000	7.180	0.411	0.000	48.091						
21-Dec	11.460	2.434	0.752	3.530		14.990	17.460	0.460	7.280	0.654	3.069	48.566						
22-Dec	11.290	1.846	0.502	3.300		14.590	16.870	0.660	6.860	0.581	4.524	47.019						
23-Dec	10.650	2.031	0.589	3.160		13.810	14.840	3.160	6.560	0.510	22.882	47.502						
24-Dec	10.500	2.071	0.541	3.180		13.680	15.290	2.710	6.860	0.046	19.810	50.146						
25-Dec	12.700	2.518	0.535	3.730		16.430	19.490	2.520	7.460	0.268	15.338	45.405						
26-Dec	18.300	3.869	0.656	6.310		24.610	24.610	0.490	2.860	0.268	1.991	11.621						
27-Dec	13.900	3.369	0.786	4.670		18.570	22.210	0.000	6.180	0.345	0.000	33.279						
28-Dec	12.600	2.113	0.500	4.110		16.710	19.630	1.700	6.410	0.809	10.174	38.360						
29-Dec	11.940	2.407	0.674	3.770		15.710	18.300	2.180	6.200	0.465	13.877	39.465						
30-Dec	11.620	2.112	0.622	3.620		15.240	17.500	2.890	6.110	0.443	18.963	40.092						
31-Dec	12.000	2.384	0.501	3.640		15.640	18.110	2.740	6.240	0.032	17.519	39.898						
1-Jan							17.660											
2-Jan							16.950											
Total	394.620	76.194	20.425	118.560		513.180	586.890	55.730	190.010	13.626	350.565	1208.47						
Week 1	12.437	2.260	0.684	3.464		15.901	18.954	2.577	5.730	0.474	16.390	37.28						
Week 2	14.443	2.775	0.721	4.351		18.794	20.810	1.533	5.327	0.470	8.439	30.88						
Week 3	11.566	2.318	0.669	3.480		15.046	17.384	1.130	7.267	0.464	7.384	48.37						
Week 4	12.849	2.545	0.587	4.066		16.914	18.991	1.606	6.170	0.404	10.674	39.05						
Week 5																		
Monthly	12.730	2.458	0.659	3.825		16.554	18.932	1.798	6.129	0.440	11.309	38.98						
Min =	9.900	1.794	0.500	2.700		12.600	14.350	0.000	1.460	0.032	0.000	5.68						
Max =	19.670	3.869	0.952	6.310		25.720	25.720	4.080	7.560	0.809	22.882	50.85						

Influent flow used on these dates due to inaccuracy of effluent flow over 25 MGD.
42 inch venturi malfunction. Using 6th and Canal totalizer in place of 42 inch for influent flow.

Print Date: 1/14/2010

	December 2009			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
29-Nov															
30-Nov	ns		ns	7.1	1030	4200	7.1	142	4460	8.4	103	4140	7.6	269	300
1-Dec															
2-Dec	ns		ns	7.0	84	3880	7.1	80	5000	7.1	116	4500	6.9	58	3800
3-Dec															
4-Dec	ns		ns	7.0		4100	7.1		4600	7.2		4320	6.9		3300
5-Dec															
6-Dec															
7-Dec	ns		ns	7.0	73	3920	7.1	153	4340	7.2	40	900	7.2	109	820
8-Dec															
9-Dec	ns		ns	7.1	80	4040	7.1	164	4220	7.2	513	1300	7.3	95	4320
10-Dec															
11-Dec	ns		ns	7.0		3940	7.3		4440	7.4		4640	7.3		4400
12-Dec															
13-Dec															
14-Dec	ns		ns	7.1	76	4020	7.0	236	4200	7.7	58	4420	7.4	62	80
15-Dec															
16-Dec	ns		ns	7.1		4100	6.9		4240	7.4		4280	7.4		4200
17-Dec															
18-Dec	ns		ns	7.0	138	4120	6.9	655	4300	7.4	593	4580	7.4	109	2020
19-Dec															
20-Dec															
21-Dec	ns		ns	6.9	622	3580	7.1	98	4400	7.4	84	4340	7.3	160	900
22-Dec															
23-Dec	ns		ns	6.9	175	3620	7.0		4280	7.4		4240	7.5		4000
24-Dec															
25-Dec															
26-Dec															
27-Dec															
28-Dec	ns		ns	6.9	76	3840	7.0	636	3800	7.6	95	4300	7.8	578	320
29-Dec															
30-Dec	7.0	55	2500	7.0	193	3520	7.0	69	3600	7.4	58	3880	7.4	95	3880
31-Dec															
1-Jan	ns		ns	ns		ns	ns		ns	ns		ns	ns		ns
2-Jan															
Total	7.0	55	2500	84.0	1517	46680	84.3	2091	51420	88.5	1557	45700	87.8	1266	32040
Week 1	#DIV/0!	#DIV/0!	#DIV/0!	7.0	79	3967	7.1	117	4647	7.2	78	3240	7.0	84	2640
Week 2	#DIV/0!	#DIV/0!	#DIV/0!	7.1	78	4000	7.1	200	4287	7.5	286	3453	7.3	79	2933
Week 3	#DIV/0!	#DIV/0!	#DIV/0!	7.0	380	3933	6.9	377	4313	7.4	339	4400	7.4	135	2373
Week 4	#DIV/0!	#DIV/0!	#DIV/0!	6.9	126	3730	7.0	636	4040	7.5	95	4270	7.6	578	2160
Week 5															
Monthly	7.0	55	2500	7.0	255	3914	7.0	248	4298	7.4	184	3834	7.3	171	2488
Min =	7.0	55	2500	6.9	73	3520	6.9	69	3600	7.1	40	900	6.9	58	80
Max =	7.0	55	2500	7.1	622	4120	7.3	655	5000	7.7	593	4640	7.8	578	4400

Print Date: 1/14/2010

Dissolved Oxygen -December 2009

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
12/1/2009	7.6	7.5	7.6	7.5	7.7	7.8	7.2		7.2
12/2/2009	8.0	7.6	7.8	7.8	7.8	7.6	9.3		7.6
12/3/2009	7.7	6.9	6.1	6.3	7.4	7.8	7.8		6.1
12/4/2009	7.9	8.5	8.6	8.6	8.7	7.3	10.2		7.3
12/5/2009	8.0	7.9	8.0	8.0	8.0	8.1	11.3		7.9
12/6/2009	8.9	7.8	7.8	8.3	8.9	9.1	8.3		7.8
12/7/2009	9.2	8.4	8.4	8.3	8.8	9.5	10.1		8.3
12/8/2009	9.5	8.1	8.9	8.9	8.9	8.8	9.2		8.1
12/9/2009	8.9	8.6	7.0	6.9	7.0	8.9	10.4		6.9
12/10/2009	9.1	9.1	9.0	9.5	10.0	9.1	9.4		9.0
12/11/2009	9.3	9.1	9.0	9.3	9.2	9.7	9.4		9.0
12/12/2009	10.3	8.8	8.5	9.2	8.7	8.4	9.8		8.4
12/13/2009	8.2	7.8	7.5	6.9	6.4	7.6	8.6		6.4
12/14/2009	7.4	7.2	8.6	8.5	8.2	8.8	8.2		7.2
12/15/2009	8.9	8.1	7.9	8.2	8.4	8.3	8.1		7.9
12/16/2009	8.1	8.6	9.0	8.6	9.6	10.2	8.4		8.1
12/17/2009	10.2	9.0	9.2	9.6	9.2	10.1	8.3		8.3
12/18/2009	10.3	8.9	8.5	9.3	9.9	10.0	6.8		6.8
12/19/2009	10.1	9.0	9.4	9.4	8.9	9.1	10.9		8.9
12/20/2009	10.6	10.8	9.7	9.8	10.2	10.1	7.4		7.4
12/21/2009	10.3	9.5	8.9	9.7	9.6	9.7	10.0		8.9
12/22/2009	10.6	9.2	9.2	9.1	8.9	9.7	8.0		8.0
12/23/2009	10.8	9.4	9.3	9.7	8.7	8.5	8.2		8.2
12/24/2009	9.5	9.7	9.3	9.8	10.6	10.5	9.4		9.3
12/25/2009	10.6	10.1	10.4	10.3	10.8	10.4	9.7		9.7
12/26/2009	10.6	10.1	9.3	8.5	8.7	8.6	10.8		8.5
12/27/2009	9.2	9.7	9.0	10.3	9.4	8.4	9.7		8.4
12/28/2009	10.1	9.7	9.4	10.6	10.0	11.2	9.0		9.0
12/29/2009	10.7	9.4	9.6	10.3	10.0	10.4	8.7		8.7
12/30/2009	10.2	9.6	9.7	10.0	9.4	9.4	9.0		9.0
12/31/2009	9.7	9.5	10.3	9.2	8.6	9.9	8.2		8.2
Min	7.40	6.90	6.10	6.30	6.40	7.30	6.8	Min	6.10
Max	10.80	10.80	10.40	10.60	10.80	11.20	11.3	Max	9.68
								Avg	8.08

	December 2009 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Dec	0.00	0.02	0.02	0.03	0.01	0.01	0.02	
2-Dec	0.00	0.03	0.02	0.01	0.00	0.00	0.01	
3-Dec	0.00	0.00	0.01	0.00	0.01	0.02	0.01	
4-Dec	0.02	0.01	0.01	0.00	0.02	0.01	0.01	
5-Dec	0.00	0.01	0.02	0.02	0.01	0.01	0.01	
6-Dec	0.00	0.01	0.00	0.02	0.00	0.00	0.01	
7-Dec	0.01	0.02	0.01	0.02	0.02	0.02	0.02	
8-Dec	0.01	0.01	0.00	0.02	0.01	0.01	0.01	
9-Dec	0.01	0.01	0.00	0.00	0.00	0.01	0.01	
10-Dec	0.02	0.01	0.01	0.01	0.02	0.03	0.02	
11-Dec	0.02	0.02	0.01	0.01	0.01	0.01	0.01	
12-Dec	0.01	0.01	0.01	0.01	0.00	0.01	0.01	
13-Dec	0.00	0.02	0.02	0.01	0.00	0.02	0.01	
14-Dec	0.01	0.01	0.01	0.23	0.02	0.02	0.05	
15-Dec	0.00	0.01	0.03	0.09	0.03	0.01	0.03	
16-Dec	0.00	0.02	0.01	0.01	0.00	0.01	0.01	
17-Dec	0.01	0.08	0.00	0.02	0.01	0.01	0.02	
18-Dec	0.01	0.03	0.00	0.01	0.01	0.01	0.01	
19-Dec	0.01	0.03	0.01	0.01	0.00	0.01	0.01	
20-Dec	0.00	0.01	0.01	0.40	0.00	0.01	0.06	0.00
21-Dec	0.00	0.03	0.00	0.01	0.02	0.00	0.01	
22-Dec	0.03	0.13	0.01	0.01	0.00	0.00	0.03	
23-Dec	0.04	0.02	0.03	0.01	0.00	0.01	0.02	
24-Dec	0.01	0.01	0.01	0.02	0.02	0.01	0.01	
25-Dec	0.05	0.04	0.03	0.03	0.00	0.00	0.03	
26-Dec	0.00	0.05	0.03	0.00	0.00	0.00	0.01	
27-Dec	0.00	0.01	0.01	0.01	0.01	0.01	0.01	
28-Dec	0.00	0.02	0.03	0.00	0.00	0.01	0.01	
29-Dec	0.00	0.00	0.01	0.00	0.00	0.01	0.00	
30-Dec	0.00	0.01	0.01	0.00	0.00	0.00	0.00	
31-Dec	0.01	0.02	0.01	0.02	0.01	0.00	0.01	
Average	0.01	0.02	0.01	0.03	0.01	0.01	0.02	
Minimum	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.05	0.13	0.03	0.40	0.03	0.03		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* December 2009

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information ***(prior to Incineration)***

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 18.88	X 0.01	= 0.00
0.00	X 18.88	X 0.01	= 0.00
0.00	X 18.88	X 0.01	= 0.00
972.62	X 18.88	X 0.01	= 183.63
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 183.63

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	183.63
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Deborah K S K
Signature

Utilities Manager
Title

610-655-6258
Telephone

01/22/2010
Date

City of Reading 3-C Watershed *for the Month* December 2009

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

RECEIVED
EPA REGION III
DEC 2 2 2009
OFC. OF STATE AND WATERSHED PARTNERSHIPS (3WP10)

RECEIVED
EPA REGION III
DEC 2 2 2009
OFC. OF STATE AND WATERSHED PARTNERSHIPS (3WP10)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 00
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	11/01/2009	TO	11/30/2009

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Color (PT-CO units)	SAMPLE MEASUREMENT	******	******	******	******	66	******		0	Daily	COMP24
00080 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	186 MO AVG	******	col unit (pc)		Daily	COMP24
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	******	******	******	6.5	******	******		0	7/Daily	GRAB
00300 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	5 INST MIN	******	******	mg/L		Daily	GRAB
pH	SAMPLE MEASUREMENT	******	******	******	7.3	******	8.0		0	Daily	GRAB
00400 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	1541	1570		******	12	13		0	Daily	COMP24
00530 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	7130 MO AVG	10696 MX WK AV	lb/d	******	30 MO AVG	45 MX WK AV	mg/L		Daily	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	400	******		******	3.1	******		0	Daily	COMP24
00610 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	3000 MO AVG	******	lb/d	******	18 MO AVG	******	mg/L		Daily	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	15.15	19.22		******	******	******	******	0	Continuous	MEASRD
50050 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	MEASRD
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	******	******	0.02	******		0	2/Shift	GRAB
50060 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	.4 MO AVG	******	mg/L		Once Per Shift	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Deborah A.S. Hoag, P.E. Utilities Division Mngr	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Deborah A.S. Hoag	610-655-6258		12/17/2009
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: READING CITY
ADDRESS: RT 10 MORGANTOWN RD
READING, PA 19607
FACILITY: READING WTP
LOCATION: RT 10 MORGANTOWN RD
READING, PA 19607

ATTN: DEBORAH HOAG/ENVR DIV MGR

PA0026549	001A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	11/01/2009	TO	11/30/2009

DMR Mailing ZIP CODE: 196013690
MAJOR
(SUBR 03)
OUTFALL 001
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	<0.00881	******		******	<0.00007	******		0	Weekly	COMP24
71900 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	.055 MO AVG	******	lb/d	******	.00023 MO AVG	******	mg/L		Weekly	COMP24
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	15	******		~~0~~	Daily	GRAB
74055 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	10000 30DA GEO	******	#/100mL		Daily	GRAB
BOD, carbonaceous, 05 day, 20 C	SAMPLE MEASUREMENT	1814	2121		******	14	16		0	Daily	COMP24
80082 A 1 Disinfection, Process Complete	PERMIT REQUIREMENT	4170 MO AVG	6255 MX WK AV	lb/d	******	25 MO AVG	40 MX WK AV	mg/L		Daily	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Deborah A.S. Hoag, P.E. Utilities Division Mngr	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.	Deborah A.S. Hoag	610-655-6258		12/17/2009
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

	November2009					City of Reading Wastewater Treatment Plant								
	Final Effluent								preSO2		COLOR			Air Temp.	
	Temp	BOD	CBOD	TSS	NH3-N	FLOW	DO	pH	TRC	FECAL	pH 7.6	RAIN	Min	Max
DATE	°C	mg/L	mg/L	mg/L	mg/L	MGD	mg/L	s.u.	mg/L	#/100ml	Pt-Co	inches	(°F)	(°F)
1-Nov	18.4	22	14	13	0.3	17.53	7.4	7.3	0.79	33	50	0.18	41	59
2-Nov	18.8	25	18	11	1.7	15.78	7.2	7.3	0.47	8	60	0.00	40	65
3-Nov	16.2	26	20	12	2.1	16.33	7.2	7.7	0.78	4	65	0.00	36	62
4-Nov	18.5	28	13	11	3.7	15.25	7.5	7.4	0.47	55	60	0.00	30	55
5-Nov	16.7	34	18	14	4.0	15.42	7.4	7.4	0.54	11	65	0.00	33	54
6-Nov	16.3	26	15	13	1.8	14.39	7.2	7.5	0.51	5	60	0.00	27	50
7-Nov	14.8	25	16	10	1.4	14.53	7.6	7.4	0.48	5	60	0.00	24	57
8-Nov	16.2	26	16	12	0.6	15.03	7.8	7.3	0.51	21	65	0.00	34	74
9-Nov	18.1	29	18	13	2.3	15.26	7.4	7.4	0.40	43	60	0.00	38	70
10-Nov	19.0	28	18	19	0.9	14.58	7.0	7.4	0.54	8	65	0.00	46	67
11-Nov	18.0	22	15	14	1.1	14.48	6.5	7.3	0.50	22	65	0.02	47	55
12-Nov	18.0	23	15	12	0.9	14.60	7.7	7.7	0.40	6	65	0.00	45	52
13-Nov	16.8	22	14	13	2.1	14.06	7.6	7.3	0.47	10	65	0.00	49	56
14-Nov	18.2	22	15	7	1.7	14.49	7.4	7.6	0.34	28	75	0.05	52	57
15-Nov	18.9	33	14	14	0.4	15.15	7.3	7.6	0.38	5	65	0.00	48	73
16-Nov	19.0	20	15	10	1.4	14.46	7.3	7.5	0.37	9	75	0.00	39	62
17-Nov	17.6	24	13	11	2.8	14.00	6.9	7.3	0.46	11	85	0.00	37	63
18-Nov	17.0	26	18	13	2.1	14.44	7.4	7.5	0.29	28	75	0.00	33	58
19-Nov	18.1	18	10	10	6.5	19.22	7.2	7.4	0.29	22	75	0.31	48	58
20-Nov	17.0	17	10	8	3.0	14.96	6.9	7.4	0.80	6	75	0.42	36	59
21-Nov	17.7	16	11	9	2.2	14.32	7.6	7.3	0.32	64	65	0.00	33	60
22-Nov	17.4	14	9	15	3.2	15.04	7.7	7.6	0.34	49	65	0.00	32	59
23-Nov	18.9	18	10	10	2.9	15.31	7.4	7.9	0.32	46	60	0.08	40	52
24-Nov	18.5	24	16	13	4.9	15.27	7.1	7.4	0.43	17	65	0.07	46	51
25-Nov	18.9	23	12	14	8.2	15.88	7.1	7.4	0.33	11	75	0.16	48	52
26-Nov	18.9	23	14	9	4.5	14.77	7.0	7.3	0.29	14	75	0.01	45	52
27-Nov	18.1	19	12	10	5.3	14.14	7.3	8.0	0.41	35	60	0.09	40	48
28-Nov	14.6	21	12	12	7.6	14.56	7.7	7.3	0.29	29	60	0.00	31	51
29-Nov	15.2	24	14	12	7.6	14.84	7.6	7.3	0.39	5	65	0.00	27	65
30-Nov	17.2	23	16	21	6.9	16.48	7.2	7.6	0.30	9	65	0.20	35	55
TOTAL		701	431	365	93.8	454.57	####	223.7	13.21		1985	1.59		
Week 1	17.1	27	16	12	2.1	15.60	7.4	7.4	0.58	17	60	0.03	33	57
Week 2	17.8	25	16	13	1.4	14.64	7.3	7.4	0.45	20	66	0.01	44	62
Week 3	17.9	22	13	11	2.6	15.22	7.2	7.4	0.42	21	74	0.10	39	62
Week 4	17.9	20	12	12	5.2	15.00	7.3	7.6	0.34	29	66	0.06	40	52
Monthly	17.6	23	14	12	3.1	15.15	7.3	7.5	0.44	15	66	0.05	39	58
	ekly averages: 11/1-11/7, 11/8-11/8-11/14,11/15-11/21, 11/22-11/28. 11/29 and 11/30 will be included in the December rep													
Min =	14.6	14	9	7	0.3	14.00	6.5	7.3	0.29	4	50	0.00	24	48
Max =	19.0	34	20	21	8.2	19.22	7.8	8.0	0.80	64	85	0.42	52	74
						See DO profile								
DISCHARGE LIMITATIONS														
Ave Monthly:			25	30	18.0		Min.	6.0		10,000	186			
Ave Weekly:			40	45			of	to						
Inst. Max:			50	60	24.0		5.0	9.0			465			
	Weekly averages: 11/1-11/7, 11/8-11/14, 11/15-11/21, 11/22-11/28. 11/29 and 11/30 will be included in the first week of													

Print Date: 12/15/2009

Influent and Effluent Plant Loading Data

	BOD							CBOD	TSS						TS	NH_3N						
	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent	Effluent	Grit Ch	6th St	Calc Inf	Recycle	Plant Raw	Effluent	Filtrate	Grit Ch	6th St	Calc Inf	Recycle	Filtrate	Plant Raw	Effluent
DATE	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
1-Nov	10,419	70,076	80,495	-18,134		62,362	3,216	2,047	6,976	46,523	53,499	7,208	60,707	1,901	4,368	596	1,684	2280	2,582	742	4,862	43
2-Nov	5,746	52,292	58,038	-6,935		51,103	3,290	2,369	5,855	67,521	73,375	93,602	166,977	1,448	4,759	637	1,816	2,453	3,275	109	5,728	229
3-Nov	5,836	42,200	48,037	-1,817		46,219	3,541	2,724	6,693	47,338	54,031	11	54,041	1,634	3,416	699	1,899	2,598	2,344	67	4,942	279
4-Nov	6,995	56,220	63,215	-8,171		55,044	3,561	1,653	7,733	33,732	41,465	-10,961	30,504	1,399	11,397	567	1,767	2,334	4,386	127	6,720	476
5-Nov	6,380	68,392	74,772	9,840	180	84,613	4,372	2,315	5,410	22,028	27,438	19,671	47,109	1,800	3,595	641	1,981	2,621	1,266	29	3,888	516
6-Nov	6,348	37,905	44,253	-6,160		38,093	3,120	1,800	5,905	71,093	76,998	-26,498	50,500	1,560	5,074	620	2,013	2,633	2,896	118	5,529	217
7-Nov	6,089	42,326	48,415	-2,423		45,992	3,030	1,939	17,845	29,120	46,965	10,854	57,818	1,212	1,526	639	2,074	2,713	-304	22	2,409	166
8-Nov	8,667	60,596	69,263	-14,579	184	54,684	3,259	2,006	5,325	32,669	37,994	5,525	43,519	1,504	6,267	713	2,248	2,961	1,254	58	4,215	71
9-Nov	8,006	62,891	70,898	-28,430		42,468	3,691	2,291	7,506	27,052	34,558	-7,654	26,904	1,654	4,575	643	1,766	2,409	1,582	335	3,991	291
10-Nov	6,750	43,368	50,118	1,283		51,401	3,405	2,189	6,300	30,024	36,324	22,787	59,111	2,310	5,640	635	1,668	2,303	1,520	99	3,823	115
11-Nov	12,533	41,700	54,233	29,619		83,852	2,657	1,811	6,387	15,679	22,066	38,135	60,201	1,691	8,106	692	1,943	2,635	956	186	3,591	132
12-Nov		47,063	47,063	863	667	47,926	2,801	1,826		28,898	28,898	27,335	56,233	1,461	5,296		1,560	1,560	3,094	334	4,654	108
13-Nov	6,185	36,029	42,214	2,665		44,879	2,580	1,642	5,440	30,424	35,864	26,661	62,525	1,524	2,367	586	1,986	2,571	642	196	3,213	240
14-Nov	5,584	44,953	50,537	-3,287		47,250	2,659	1,813	4,886	45,606	50,493	23,323	73,815	846	2,477	656	2,068	2,724	1,497	146	4,221	205
15-Nov	7,273	46,787	54,061	2,339	154	56,400	4,170	1,769	6,686	39,642	46,328	8,081	54,409	1,769		730	2,127	2,857	1,545		4,401	46
16-Nov	7,665	54,318	61,984	-6,559		55,424	2,412	1,809	6,836	21,978	28,815	9,876	38,690	1,206	5,388	578	1,864	2,441	2,611	494	5,052	174
17-Nov	7,013	50,467	57,480	-5,396		52,083	2,802	1,518	6,102	93,608	99,710	-52,835	46,875	1,284	8,019	615	1,807	2,422	1,891	281	4,312	321
18-Nov	8,928	57,738	66,665	4,792		71,457	3,131	2,168	4,927	86,607	91,534	-9,148	82,386	1,566	6,505	678	1,996	2,674	1,393	482	4,067	249
19-Nov	7,360	53,863	61,223	-9,994	129	51,228	2,885	1,603	7,054	90,739	97,793	-52,081	45,712	1,603	1,821	736	2,300	3,036	1,312	103	4,348	1,039
20-Nov	5,409	48,572	53,981	22,094		76,076	2,121	1,248	6,397	19,949	26,346	31,317	57,663	998	3,250	555	1,726	2,281	2,317	86	4,598	378
21-Nov	3,763	33,347	37,110	4,991		42,100	1,911	1,314	1,858	26,645	28,503	4,651	33,154	1,075	2,577	609	1,896	2,505	1,873	38	4,378	258
22-Nov	6,085	51,641	57,726	-3,129		54,597	1,756	1,129	7,023	35,288	42,311	3,149	45,460	1,882	1,788	636	1,937	2,573	547	46	3,120	398
23-Nov	4,737	40,570	45,307	3,095		48,402	2,298	1,277	5,163	27,449	32,613	25,030	57,642	1,277	5,244	625	1,882	2,507	3,301	122	5,808	370
24-Nov	7,006	54,977	61,983	-8,448	287	53,534	3,056	2,038	3,690	61,334	65,024	-27,659	37,365	1,656	3,918	465	1,469	1,934	3,136	365	5,069	618
25-Nov	6,476	44,886	51,361	-4,844		46,517	3,046	1,589	5,987	56,539	62,526	-8,920	53,606	1,854	4,055	689	2,115	2,804	4,273	165	7,077	1,082
26-Nov	7,543	41,992	49,535	-4,454		45,081	2,833	1,725	6,819	129,335	136,154	-42,986	93,167	1,109		743	2,167	2,909	1,599		4,508	553
27-Nov	5,141	34,714	39,855	-3,776		36,079	2,241	1,415	5,230	32,615	37,846	22,355	60,200	1,179	3,138	747	2,373	3,120	2,374	232	5,494	623
28-Nov	5,153	30,802	35,955	5,693		41,648	2,550	1,457	5,108	27,485	32,593	44,406	76,999	1,457	5,232	608	1,911	2,519	3,433	236	5,953	925
29-Nov	6,255	38,414	44,669	5,892	400	50,560	2,970	1,733	6,066	31,712	37,778	32,164	69,942	1,485	5,529	588	1,953	2,541	2,304	1,089	4,845	939
30-Nov	6,316	43,235	49,551	-6,485		43,066	3,161	2,199	6,440	49,540	55,980	-4,990	50,990	2,886	3,355	572	1,729	2,302	1,925	145	4,226	946
TOTAL	197,662	1,432,334	1,629,996	-49,856	2,001	1,580,140	88,526	54,413	183,648	1,358,172	1,541,820	212,406	1,754,226	46,231	128,682	18,495	57,725	76,220	62,823	6,452	139,043	12,008
Week 1	6,831	52,773	59,604	-4,828	180	54,775	3,447	2,121	8,059	45,336	53,396	13,412	66,808	1,565	4,876	628	1,891	2,519	2,349	173	4,868	275
Week 2	7,954	48,086	54,904	-1,695	426	53,209	3,007	1,940	5,974	30,050	35,171	19,444	54,616	1,570	4,961	654	1,891	2,452	1,506	194	3,958	166
Week 3	6,773	49,299	56,072	1,752	141	57,824	2,776	1,633	5,694	54,167	59,861	-8,591	51,270	1,357	4,593	643	1,959	2,602	1,849	247	4,451	352
Week 4	6,020	42,798	48,818	-2,266	287	46,551	2,540	1,518	5,574	52,864	58,438	2,196	60,634	1,488	3,896	645	1,979	2,624	2,666	194	5,290	653
Monthly	6,816	47,744	54,333	-1,662	286	52,671	2,951	1,814	6,333	45,272	51,394	7,080	58,474	1,541	4,596	638	1,924	2,541	2,094	230	4,635	400
Min =	3763	30802	35955	-28430	129	36,079	1,756	1,129	1,858	15,679	22,066	-52,835	26,904	846	1,526	465	1,469	1,560	-304	22	2,409	43
Max =	12533	70076	80495	29619	667	84,613	4,372	2,724	17,845	129,335	136,154	93,602	166,977	2,886	11,397	747	2,373	3,120	4,386	1,089	7,077	1,082
								4,170						7,130								3,000
								6,255						10,696								

Print Date: 12/15/2009

	GC Mercury (Hg)		6th St Mercury (Hg)		Inf. Mercury (Hg)		Eff. Mercury (Hg)	
DATE	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1-Nov								
2-Nov								
3-Nov	0.00008	0.00214	0.00010	0.00917	0.00020	0.02370	< 0.00007	< 0.00953
4-Nov	< 0.00007	< 0.00178	< 0.00007	< 0.00625	0.00070	0.08027	< 0.00007	< 0.00890
5-Nov								
6-Nov								
7-Nov								
8-Nov								
9-Nov								
10-Nov	< 0.00007	< 0.00166	0.00020	0.01668	0.00040	0.04283	< 0.00007	< 0.00851
11-Nov								
12-Nov								
13-Nov								
14-Nov								
15-Nov								
16-Nov								
17-Nov	0.00010	0.00228	< 0.00007	< 0.00570	0.00020	0.02083	< 0.00007	< 0.00817
18-Nov								
19-Nov								
20-Nov								
21-Nov								
22-Nov								
23-Nov								
24-Nov	0.00010	0.00234	0.00020	0.01718	0.00060	0.06555	< 0.00007	< 0.00891
25-Nov								
26-Nov								
27-Nov								
28-Nov								
29-Nov								
30-Nov								
Total	0.00042	0.01019	0.00064	0.05498	0.00210	0.23319	0.00035	0.04404
Week 1	< 0.00008	< 0.00196	< 0.00009	< 0.00771	0.00045	0.05199	< 0.00007	< 0.00922
Week 2	< 0.00007	< 0.00166	0.00020	0.01668	0.00040	0.04283	< 0.00007	< 0.00851
Week 3	0.00010	0.00228	< 0.00007	< 0.00570	0.00020	0.02083	< 0.00007	< 0.00817
Week 4	0.00010	0.00234	0.00020	0.01718	0.00060	0.06555	< 0.00007	< 0.00891
Monthly	< 0.00008	< 0.00204	< 0.00013	< 0.01100	0.00042	0.04664	< 0.00007	< 0.00881
Min =	< 0.00007	< 0.00166	0.00007	0.00570	0.00020	0.02083	< 0.00007	< 0.00817
Max =	0.00010	0.00234	0.00020	0.01718	0.00070	0.08027	< 0.00007	< 0.00953
							0.00023	0.055
							0.00046	

Print Date: 12/15/2009

	November2009				City of Reading Wastewater Treatment Plant																				Laboratory Process Control Data								
	Grit Chamber				6th Street				Calculated Influent			Recycle Added			Plant Raw					Primary Effluent				Intermediate Effluent					Tertiary Settling			
	BOD	TSS	pH	NH_3N	BOD	TSS	pH	NH3N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	BOD	TSS	NH3-N	pH	FLOW	BOD	TSS	NH3-N	pH	BOD	TSS	NH3-N	Alkalinity	pH	BOD	TSS	NH3-N	Alkalinity
DATE	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.	MGD	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L
1-Nov	348	233	7.5	19.9	720	478	7.3	17.3	632	420	17.9	-142	57	20.3	490	477	38.2	7.1	15.26	262	76	20.7	6.3	52	29	13.9		7.0	37	17	7.2	
2-Nov	212	216	7.6	23.5	570	736	7.0	19.8	488	617	20.6	-58	788	27.6	430	1405	48.2	6.6	14.25	282	87	26.7	6.3	54	37	19.1	200	6.9	34	18	12.6	180
3-Nov	218	250	7.7	26.1	460	516	8.8	20.7	405	456	21.9	-15	0	19.8	390	456	41.7	7.1	14.21	230	73	24.5	6.6	48	29	19.0		7.2	30	11	13.7	
4-Nov	275	304	7.5	22.3	630	378	7.0	19.8	551	362	20.4	-71	-96	38.2	480	266	58.6	7.1	13.75	750	98	30.5	6.8	61	47	21.8	300	7.0	40	29	14.8	220
5-Nov	250	212	7.5	25.1	770	248	7.4	22.3	654	240	22.9	86	172	11.1	740	412	34.0	7.5	13.71	248	66	25.4	7.0	46	31	20.0		7.3	40	16	15.5	
6-Nov	258	240	7.6	25.2	450	844	7.3	23.9	407	707	24.2	-57	-243	26.6	350	464	50.8	6.7	13.05	233	82	29.9	6.6	40	26	22.3	260	7.1	26	19	15.4	260
7-Nov	245	718	7.3	25.7	500	344	7.1	24.5	442	429	24.8	-22	99	-2.8	420	528	22.0	6.7	13.13	272	77	22.5	6.5	41	25	17.6		7.2	NS	NS	NS	
8-Nov	332	204	7.2	27.3	690	372	7.0	25.6	608	334	26.0	-128	48	11.0	480	382	37.0	6.8	13.66	288	64	25.4	6.3	64	21	16.0		7.1	NS	NS	NS	
9-Nov	320	300	7.6	25.7	730	314	7.9	20.5	638	311	21.7	-256	-69	14.2	382	242	35.9	6.9	13.33	295	78	26.4	6.3	56	45	20.4	220	7.0	40	25	13.6	200
10-Nov	285	266	7.6	26.8	520	360	7.1	20.0	468	339	21.5	12	213	14.2	480	552	35.7	6.6	12.84	320	90	23.8	6.1	63	44	15.9		6.8	37	13	11.3	
11-Nov	520	265	7.4	28.7	500	188	7.0	23.3	504	205	24.5	276	355	8.9	780	560	33.4	6.6	12.89	248	100	26.5	6.5	80	49	19.1	260	6.8	35	21	13.7	240
12-Nov	NS	NS	7.1	NS	570	350	7.1	18.9	442	271	14.7	8	257	29.0	450	528	43.7	7.0	12.77	307	91	27.6	6.5	52	34	19.2		7.2	32	18	13.1	
13-Nov	282	248	7.3	26.7	450	380	6.9	24.8	414	352	25.2	26	261	6.3	440	613	31.5	6.5	12.23	272	90	25.8	6.3	42	33	18.1	280	7.0	33	24	12.7	220
14-Nov	240	210	7.4	28.2	550	558	7.3	25.3	481	481	25.9	-31	222	14.3	450	703	40.2	7.3	12.59	247	61	24.6	6.7	52	19	18.7		7.0	43	11	11.7	
15-Nov	285	262	7.6	28.6	550	466	7.3	25.0	489	419	25.8	21	73	14.0	510	492	39.8	7.0	13.26	265	71	24.6	6.8	48	41	17.2		7.1	28	15	9.0	
16-Nov	333	297	7.6	25.1	650	263	7.1	22.3	582	270	22.9	-62	93	24.5	520	363	47.4	6.8	12.78	283	69	28.5	6.6	40	19	20.7	280	7.0	ns	NS	NS	200
17-Nov	308	268	7.7	27.0	620	1150	6.9	22.2	552	957	23.2	-52	-507	18.2	500	450	41.4	7.0	12.49	312	101	28.2	6.2	66	49	20.6		6.8	41	25	15.7	
18-Nov	395	218	7.7	30.0	700	1050	7.2	24.2	634	871	25.4	46	-87	13.3	680	784	38.7	6.8	12.60	ns	NS	NS	6.5	64	30	20.2	200	6.9	35	15	13.2	160
19-Nov	265	254	7.8	26.5	520	876	7.1	22.2	466	744	23.1	-76	-396	10.0	390	348	33.1	6.9	15.75	298	88	25.8	6.5	54	39	20.3		7.2	34	20	14.6	
20-Nov	230	272	7.3	23.6	560	230	7.2	19.9	490	239	20.7	200	284	21.0	690	523	41.7	6.6	13.22	252	74	22.4	6.4	40	15	14.9	300	7.0	26	12	8.9	300
21-Nov	160	79	7.6	25.9	408	326	7.0	23.2	353	271	23.8	47	44	17.8	400	315	41.6	7.1	12.62	268	65	25.3	6.5	39	24	17.1		7.1	26	12	10.1	
22-Nov	240	277	7.4	25.1	600	410	7.3	22.5	518	380	23.1	-28	28	4.9	490	408	28.0	7.2	13.36	270	80	23.7	6.6	31	30	16.7		7.2	26	12	10.7	
23-Nov	200	218	7.5	26.4	470	318	7.2	21.8	412	296	22.8	28	228	30.0	440	524	52.8	7.2	13.19	230	87	28.4	6.7	26	14	19.4	280	7.4	24	20	11.5	200
24-Nov	300	158	7.6	19.9	640	714	7.1	17.1	567	595	17.7	-77	-253	28.7	490	342	46.4	6.5	13.10	295	79	25.3	6.5	65	51	17.5		7.1	37	19	11.8	
25-Nov	265	245	7.6	28.2	520	655	7.1	24.5	464	565	25.3	-44	-81	38.6	420	484	63.9	7.5	13.28	292	91	31.8	6.5	48	54	25.5	320	7.1	30	21	19.4	220
26-Nov	323	292	7.6	31.8	500	1540	7.3	25.8	461	1268	27.1	-41	-400	14.9	420	868	42.0	6.8	12.87	290	78	28.7	6.3	36	16	17.6		7.1	31	15	10.9	
27-Nov	230	234	7.5	33.4	430	404	7.5	29.4	387	367	30.3	-37	217	23.0	350	584	53.3	7.4	12.36	245	72	30.3	6.6	47	38	22.7		7.2	28	12	16.1	
28-Nov	228	226	7.5	26.9	390	348	6.8	24.2	354	321	24.8	56	437	33.8	410	758	58.6	6.8	12.18	220	76	27.7	6.6	50	39	22.7		6.9	26	14	16.3	
29-Nov	265	257	7.2	24.9	470	388	7.0	23.9	424	359	24.1	56	305	21.9	480	664	46.0	7.0	12.63	268	87	26.0	6.5	71	81	21.1		7.0	34	21	15.5	
30-Nov	255	260	7.5	23.1	480	550	7.2	19.2	431	487	20.0	-56	-43	16.8	375	444	36.8	7.0	13.77	280	93	22.3	6.7	60	41	16.7	300	7.2	35	23	12.6	240
TOTAL	8067	7483	224.8	757.6	16618	15754	216.6	674.1	14719	13935	692.5	-392	2004	569.9	14327	15939	1262.4	####	397.13	8322	2344	759.3	####	1536	1050	572.0	3200	211.9	888	478	351.5	2640
Week 1	258	310	7.5	24.0	586	506	7.4	21.2	511	462	21.8	-40	111	20.1	471	573	41.9	7.0	13.91	325	80	25.7	6.6	49	32	19.1	253	7.1	35	18	13.2	220
Week 2	330	249	7.4	27.2	573	360	7.2	22.6	508	328	22.8	-13	184	14.0	495	511	36.8	6.8	12.90	282	82	25.7	6.4	58	35	18.2	253	7.0	37	19	12.7	220
Week 3	282	236	7.6	26.7	573	623	7.1	22.7	509	539	23.6	18	-71	17.0	527	468	40.5	6.9	13.25	280	78	25.8	6.5	50	31	18.7	260	7.0	32	17	11.9	220
Week 4	255	236	7.5	27.4	507	627	7.2	23.6	452	542	24.4	-20	25	24.8	431	567	49.3	7.0	12.91	263	80	28.0	6.5	43	35	20.3	300	7.1	29	16	13.8	210
Monthly	278	258	7.5	26.1	554	525	7.2	22.5	491	464	23.1	-13	67	19.0	478	531	42.1	6.9	13.2	287	81	26.2	6.5	51	35	19.1	267	7.1	33	18	13.0	220
Min =	160	79	7.1	19.9	390	188	6.8	17.1	353	205	14.7	-256	-507	-2.8	350	242	22.0	6.5	12.18	220	61	20.7	6.1	26	14	13.9	200	6.8	24	11	7.2	160
Max =	520	718	7.8	33.4	770	1540	8.8	29.4	654	1268	30.3	276	788	38.6	780	1405	63.9	7.5	15.75	750	101	31.8	7.0	80	81	25.5	320	7.4	43	29	19.4	300
									%Removal						%Removal																	
									95	97	86.5				95	98	92.6															

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		Final Settling								Filtrate		
chloride	pH	BOD	CBOD	TSS	NH3-N	Alkalinity	Nitrate	Nitrite	pH	BOD	TS	Ammonia
mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	s.u.		(mg/L)	
105	7.0	21	15	7	1.1				7.3		900	152.8
130	6.8	27	16	12	4.9	180			6.9		900	20.6
155	7.4	27	18	11	6.4		8	0	7.3		800	15.8
170	7.2	35	16	14	5.8	200			7.2		1500	16.7
165	7.2	29	17	8	8.3				7.2	50	1000	8.1
155	7.1	25	14	9	6.2	240			7.1		1200	27.8
NS	7.0	25	13	10	5.3				7.0		1000	14.3
NS	7.0	31	18	8	2.2				7.0	50	1700	15.8
135	7.1	30	16	8	5.0	200	5	0	7.1		1300	95.2
145	6.5	35	18	8	4.0				6.9		1400	24.6
165	6.9	31	16	10	5.0	180			7.0		1500	34.4
180	7.3	28	17	11	4.2				7.1	126	1000	63.1
155	7.7	26	14	15	4.1	200			6.7		1100	91.3
145	7.4	27	15	9	3.4				7.1		1280	75.6
125	7.3	32	18	13	1.4				7.3	43		
NS	7.0	33	19	18	5.5	180	19	0	7.2		1000	91.7
145	7.2	34	16	15	7.5				6.8		1500	52.6
165	7.1	29	16	5	4.4	180			6.8		1300	96.4
155	7.0	30	16	13	6.7				7.2	92	1300	73.2
150	7.1	25	13	11	2.6	200			7.0		900	23.8
155	7.3	26	11	5	2.4				7.1		1000	14.9
130	7.3	26	14	15	3.6				7.2		800	20.4
125	7.3	31	16	7	3.6	220	9	0	7.4		1200	27.9
160	6.8	34	19	13	5.0				7.1	66	900	83.8
165	7.0	34	16	17	10.9	220			7.1		1300	52.9
135	7.0	29	19	10	4.0				7.2			
125	7.4	28	15	10	9.0				7.2		1100	81.4
125	7.0	26	15	15	8.0				6.7		1700	76.7
120	7.1	35	16	19	7.8				6.7	94	1300	256.0
125	7.0	31	15	15	7.8	180	7	0	7.1		900	38.9
3910	213.5	880	477	341	156.1	2380	47	2	211.9	521	32780	1646.7
147	7.1	27	16	10	5.4	207	8	0	7.1	50	1043	36.6
154	7.1	30	16	10	4.0	193	5	0	7.0	88	1326	57.1
149	7.1	30	16	11	4.4	187	19	0	7.1	68	1167	58.8
138	7.1	30	16	12	6.3	220	9	0	7.1	66	1167	57.2
145	7.1	29.3	15.9	11	5.2	198	9	0	7.1	74	1171	58.8
105	6.5	21	11	5	1.1	180	5	0	6.7	43	800	8.1
180	7.7	35	19	19	10.9	240	19	0	7.4	126	1700	256.0

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DATE	6th & Canal P.S.	18th Ward P.S.	19th Ward P.S.	30"	42"	Total Influent	Effluent	Primary Recirc	Sec Recirc	Filtrate	% Primary Recirc	% Secondary Recirc	On High Flow	Off High Flow	On High Flow	Off High Flow	On High Flow	Off High Flow
		Flow (MGD)																
1-Nov	11.670	2.331	0.655	3.590		15.260	17.530	1.550	6.370	0.582	10	42						
2-Nov	11.000	2.119	0.717	3.250		14.250	15.780	1.950	6.270	0.634	14	44						
3-Nov	11.000	1.976	0.696	3.210		14.210	16.330	1.890	6.190	0.512	13	44						
4-Nov	10.700	2.060	0.677	3.050		13.750	15.250	2.570	6.370	0.911	19	46						
5-Nov	10.650	1.970	0.669	3.060		13.710	15.420	2.760	5.960	0.431	20	43						
6-Nov	10.100	1.809	0.591	2.950		13.050	14.390	2.570	6.020	0.507	20	46						
7-Nov	10.150	2.000	0.604	2.980		13.130	14.530	2.250	5.930	0.183	17	45						
8-Nov	10.530	2.033	0.606	3.130		13.660	15.030	2.250	5.930	0.442	16	43						
9-Nov	10.330	1.874	0.619	3.000		13.330	15.260	2.620	6.000	0.422	20	45						
10-Nov	10.000	1.879	0.689	2.840		12.840	14.580	1.750	5.000	0.483	14	39						
11-Nov	10.000	1.899	0.681	2.890		12.890	14.480	2.150	6.640	0.648	17	52						
12-Nov	9.900	1.728	0.650	2.870		12.770	14.600	2.250	6.050	0.635	18	47						
13-Nov	9.600	1.860	0.631	2.630		12.230	14.060	2.550	5.760	0.258	21	47						
14-Nov	9.800	1.769	0.559	2.790		12.590	14.490	2.060	5.820	0.232	16	46						
15-Nov	10.200	2.083	0.647	3.060		13.260	15.150	1.960	5.820	0.429	15	44						
16-Nov	10.020	1.758	0.658	2.760		12.780	14.460	1.740	6.190	0.646	14	48						
17-Nov	9.760	1.810	0.717	2.730		12.490	14.000	1.770	6.020	0.641	14	48						
18-Nov	9.890	1.844	0.653	2.710		12.600	14.440	2.410	6.070	0.600	19	48						
19-Nov	12.420	1.685	0.601	3.330		15.750	19.220	2.330	6.600	0.168	15	42						
20-Nov	10.400	2.165	0.870	2.820		13.220	14.960	2.060	6.040	0.433	16	46						
21-Nov	9.800	1.972	0.637	2.820		12.620	14.320	2.510	6.000	0.309	20	48						
22-Nov	10.320	2.047	0.721	3.040		13.360	15.040	2.830	6.010	0.268	21	45						
23-Nov	10.350	1.734	0.530	2.840		13.190	15.310	3.260	6.120	0.524	25	46						
24-Nov	10.300	1.912	0.715	2.800		13.100	15.270	2.130	6.340	0.522	16	48						
25-Nov	10.350	1.826	0.655	2.930		13.280	15.880	1.970	5.920	0.374	15	45						
26-Nov	10.070	1.799	0.509	2.800		12.870	14.770	1.250	5.720	0.320	10	44						
27-Nov	9.680	1.775	0.555	2.680		12.360	14.140	2.240	6.440	0.342	18	52						
28-Nov	9.470	1.978	0.561	2.710		12.180	14.560	2.220	6.030	0.369	18	50						
29-Nov	9.800	1.869	0.604	2.830		12.630	14.840	2.350	5.980	0.510	19	47						
30-Nov	10.800	1.971	0.700	2.970		13.770	16.480	2.540	5.930	0.447	18	43						
Total	309.060	57.535	19.377	88.070	0.000	397.130	454.570	66.740	181.540	13.782	506	1375						
Week 1	10.753	2.038	0.658	3.156	#DIV/0!	13.909	15.604	2.220	6.159	0.537	16	44						
Week 2	10.023	1.863	0.634	2.879	#DIV/0!	12.901	14.643	2.233	5.886	0.446	17	46						
Week 3	10.356	1.902	0.683	2.890	#DIV/0!	13.246	15.221	2.111	6.106	0.461	16	46						
Week 4	10.077	1.867	0.607	2.829	#DIV/0!	12.906	14.996	2.271	6.083	0.388	18	47						
Monthly	10.302	1.918	0.646	2.936	#DIV/0!	13.238	15.152	2.225	6.051	0.459	17	46						
Min =	9.470	1.685	0.509	2.630	0.000	12.180	14.000	1.250	5.000	0.168	10	39						
Max =	12.420	2.331	0.870	3.590	0.000	15.750	19.220	3.260	6.640	0.911	25	52						

Totalizer reading not recorded on 11/8/09. Calculated the totalizer readings from 11/7 to 11/9 and then averaged the flow and then applied to Flow chart.

42 inch venturi malfunction. Using 6th and Canal totalizer in place of 42 inch for influent flow.

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	November 2009			City of Reading Wastewater Treatment Plant - Digester Data											
	Primary Digester #1			Primary Digester #2			Primary Digester #3			Secondary Digester #4			Secondary Digester #5		
	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk	pH	VA	Alk
DATE	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L	s.u.	mg/L	mg/L
1-Nov															
2-Nov	ns		ns	7.0	124	4120	7.0	117	4240	6.9	28	1460	6.9		1140
3-Nov															
4-Nov	ns		ns	7.1		4320	7.0		4020	6.9		380	6.9		4260
5-Nov															
6-Nov	ns		ns	5.7	954	1020	6.7	101	3800	6.8		4000	7.1	55	4380
7-Nov															
8-Nov															
9-Nov	ns		ns	6.9	90	4060	7.0	78	4900	6.6	156	3400	6.7	80	2040
10-Nov															
11-Nov	ns		ns	ns		ns	ns		ns	ns		ns	ns		ns
12-Nov															
13-Nov	ns		ns	6.9	143	3960	6.8	108	4500	6.7	81	4200	6.8	186	4140
14-Nov															
15-Nov															
16-Nov	ns		ns	7.0	81	4120	6.9	117	4200	7.3	46	740	7.0	41	4000
17-Nov															
18-Nov	ns		ns	7.1	71	3740	7.2	64	4280	7.0	21	3800	7.5	64	4480
19-Nov															
20-Nov	ns		ns	7.0		4240	7.0		3680	7.1		200	7.2		3300
21-Nov															
22-Nov															
23-Nov	ns		ns	7.0	133	4000	7.0	74	4460	7.5	97	360	7.5	11	320
24-Nov															
25-Nov	ns		ns	6.9	172	3600	7.1	46	4440	6.8	69	4060	6.7	161	4180
26-Nov															
27-Nov															
28-Nov															
29-Nov															
30-Nov	ns		ns	7.1	1030	4200	7.1	142	4460	8.4	103	4140	7.6	269	300
Total	0.0	0	0	75.7	2798	41380	76.7	847	46980	77.8	601	26740	78.0	867	32540
Week 1	#DIV/0!	#DIV/0!	#DIV/0!	6.6	539	3153	6.9	109	4020	6.9	28	1947	7.0	55	3260
Week 2	#DIV/0!	#DIV/0!	#DIV/0!	6.9	116	4010	6.9	93	4700	6.7	118	3800	6.8	133	3090
Week 3	#DIV/0!	#DIV/0!	#DIV/0!	7.0	76	4033	7.0	91	4053	7.1	34	1580	7.2	53	3927
Week 4	#DIV/0!	#DIV/0!	#DIV/0!	6.9	153	3800	7.0	60	4450	7.1	83	2210	7.1	86	2250
Monthly				6.9	311	3762	7.0	94	4271	7.1	75	2431	7.1	108	2958
Min =	0.0	0	0	5.7	71	1020	6.7	46	3680	6.6	21	200	6.7	11	300
Max =	0.0	0	0	7.1	1030	4320	7.2	142	4900	8.4	156	4200	7.6	269	4480

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Dissolved Oxygen -November 2009

	Operator Dissolved Oxygen Readings by the operators						Laboratory	Lowest DO reading for the day/Operator and Lab	
11/1/2009	7.6	7.8	8.3	7.7	7.4	8.6	7.9	7.4	
11/2/2009	8.3	8.1	8.4	7.8	7.2	7.4	9.1	7.2	
11/3/2009	8.3	8.2	8.0	7.4	7.2	7.7	9.6	7.2	
11/4/2009	7.7	7.9	7.8	7.5	7.5	8.7	8.9	7.5	
11/5/2009	8.0	8.6	8.1	8.7	8.4	7.4	9.4	7.4	
11/6/2009	7.2	8.5	8.2	7.4	7.9	9.0	8.4	7.2	
11/7/2009	9.1	8.5	8.6	8.1	7.6	8.3	8.9	7.6	
11/8/2009	8.7	8.1	8.4	8.2	7.8	8.8	9.8	7.8	
11/9/2009	8.6	8.2	8.2	8.4	7.4	7.4	8.3	7.4	
11/10/2009	7.6	7.1	7.2	7.2	7.0	7.1	8.9	7.0	
11/11/2009	7.0	7.1	6.8	7.3	7.3	7.3	6.5	6.5	
11/12/2009	7.7	7.8	7.8	7.9	7.8	8.0	10.7	7.7	
11/13/2009	8.3	7.8	7.8	8.1	7.6	7.7	10.3	7.6	
11/14/2009	7.8	7.6	7.6	7.8	7.4	7.5	8.4	7.4	
11/15/2009	7.6	7.4	7.4	7.8	7.6	7.3	8.4	7.3	
11/16/2009	7.3	7.4	7.7	8.0	7.7	7.3	8.7	7.3	
11/17/2009	7.4	7.0	6.9	7.7	7.7	7.5	7.7	6.9	
11/18/2009	7.7	7.4	7.4	7.8	7.8	8.2	8.1	7.4	
11/19/2009	8.2	7.8	7.9	7.9	7.5	7.2	8.0	7.2	
11/20/2009	7.1	7.0	6.9	7.4	7.8	8.0	7.4	6.9	
11/21/2009	7.8	7.9	7.6	7.9	7.8	8.0	8.2	7.6	
11/22/2009	8.3	7.8	8.2	7.8	8.0	7.7	8.3	7.7	
11/23/2009	7.6	7.6	8.0	8.1	7.6	7.4	7.8	7.4	
11/24/2009	7.6	7.4	7.3	7.4	7.1	7.4	7.5	7.1	
11/25/2009	7.4	7.4	7.3	7.2	7.4	7.1	7.6	7.1	
11/26/2009	7.2	7.3	7.0	7.3	7.2	7.2	7.2	7.0	
11/27/2009	7.3	7.5	7.7	7.7	7.4	8.3	8.1	7.3	
11/28/2009	8.4	7.8	7.7	8.2	8.2	8.0	8.6	7.7	
11/29/2009	8.2	8.1	8.0	7.9	7.6	7.7	8.6	7.6	
11/30/2009	7.8	7.2	7.2	7.4	7.3	7.4	7.5	7.2	
Min	7.00	7.00	6.80	7.20	7.00	7.10	6.5	Min	6.53
Max	9.10	8.60	8.60	8.70	8.40	9.00	10.7	Max	7.80
								Avg	7.32

	November 2009 Total Residual Chlorine							
	2 AM	6 AM	10 AM	2 PM	6 PM	10 PM	Daily Average	Extra Analysis
1-Nov	0.02	0.01	0.02	0.03	0.02	0.00	0.02	
2-Nov	0.01	0.01	0.01	0.02	0.01	0.02	0.01	
3-Nov	0.01	0.03	0.02	0.01	0.03	0.01	0.02	
4-Nov	0.03	0.02	0.01	0.00	0.02	0.02	0.02	
5-Nov	0.03	0.02	0.03	0.01	0.01	0.02	0.02	
6-Nov	0.04	0.07	0.04	0.02	0.02	0.01	0.03	
7-Nov	0.03	0.05	0.02	0.02	0.02	0.02	0.03	
8-Nov	0.02	0.11	0.03	0.05	0.01	0.02	0.04	
9-Nov	0.02	0.03	0.01	0.02	0.01	0.02	0.02	
10-Nov	0.02	0.05	0.03	0.02	0.02	0.02	0.03	
11-Nov	0.02	0.04	0.03	0.01	0.02	0.10	0.04	
12-Nov	0.02	0.07	0.02	0.02	0.02	0.01	0.03	
13-Nov	0.01	0.03	0.02	0.01	0.02	0.03	0.02	
14-Nov	0.02	0.05	0.04	0.05	0.01	0.01	0.03	
15-Nov	0.02	0.02	0.03	0.03	0.02	0.01	0.02	
16-Nov	0.03	0.01	0.03	0.02	0.03	0.02	0.02	
17-Nov	0.01	0.03	0.02	0.02	0.02	0.01	0.02	
18-Nov	0.14	0.03	0.02	0.07	0.01	0.02	0.05	
19-Nov	0.02	0.02	0.04	0.08	0.02	0.03	0.04	
20-Nov	0.02	0.02	0.01	0.02	0.03	0.01	0.02	
21-Nov	0.02	0.02	0.02	0.02	0.01	0.00	0.02	
22-Nov	0.02	0.02	0.03	0.02	0.03	0.01	0.02	
23-Nov	0.03	0.03	0.03	0.02	0.01	0.02	0.02	
24-Nov	0.01	0.03	0.01	0.00	0.02	0.02	0.02	
25-Nov	0.02	0.03	0.03	0.09	0.02	0.01	0.03	
26-Nov	0.03	0.01	0.01	0.02	0.02	0.02	0.02	
27-Nov	0.02	0.03	0.02	0.02	0.02	0.01	0.02	
28-Nov	0.01	0.01	0.01	0.02	0.01	0.01	0.01	
29-Nov	0.00	0.01	0.02	0.02	0.01	0.01	0.01	
30-Nov	0.01	0.02	0.01	0.03	0.01	0.00	0.01	
Average	0.02	0.03	0.02	0.03	0.02	0.02	0.02	
Minimum	0.00	0.01	0.01	0.00	0.01	0.00		
Maximum	0.14	0.11	0.04	0.09	0.03	0.10		

Discharge Monitoring Report Supplemental Bio-Solids Report *for the Month* November 2009

NPDES permit PAL026549

City of Reading
Reading City
Berks County

Bio-Solids (Sludge) Production Information *(prior to incineration)*

Hauled as liquid sludge

Gallons	X % Solids	X Conv. Factor	= Dry Tons
	X	X 0.0000417	= 0.00
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
	X	X 0.0000417	=
		TOTAL	= 0.00

Hauled as dewatered sludge

Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons
0.00	X 20.05	X 0.01	= 0.00
0.00	X 20.05	X 0.01	= 0.00
0.00	X 20.05	X 0.01	= 0.00
836.86	X 20.05	X 0.01	= 167.79
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
	X	X 0.01	=
		TOTAL	= 167.79

DISPOSAL SITE INFORMATION: Please list all sites, even if they were not used this month.

	SITE 1	*SITE 2*	*SITE 3*	*SITE 4*
Site Name:	Modern Landfill	Rolling Hills Landfill	Conestoga Landfill	Pioneer Crossing
County:	York	Berks	Berks	Berks
Permit Number:	100113	100345	101509	100346
Dry Tons Disposed:	0.00	0.00	0.00	167.79
Type: (Check one)				
Agricultural Utilization				
Composting				
Landfill	X	X	X	X
Other (explain)				

For Bio Solids that have been incinerated:

Pre- incineration weight = _____ dry tons

Post- incineration weight = _____ dry tons

Deborah A. S. Hong
Signature

Utilities Manager
Title

610-655-6258
Telephone

12/16/2009
Date

City of Reading 3-C Watershed *for the Month* November 2009

PA0026549

Bio-Solids received from other sources

Source Name: Include the specific treatment facility name	Gallons Received	% Solids	Dry Tons
Totals Received =	0		0

Comments: