



MONTHLY OPERATIONAL REPORT

City of Broken Arrow Lynn Lane Water Reclamation Facility

September-19

		WEATHER			INFLUENT								OXIDATION DITCH					SLUDGE				FINAL EFFLUENT														STREAM SURVEILLANCE															
Date	Day	°F	Rain	Cloud Conditions	Flow (MGD)	RAS (MGD)	°C	pH	Alk.	Sett. Solids	TSS (mg/L)	BOD (mg/L)	D.O. (mg/L)	30 Min. Settlt.	SVI (ml/gm)	MLSS (mg/L)	Sl. Age (Days)	WAS (MGD)	CAKE (%)	LANDFILL (Tons)	LANDFILL (D.M. Tons)	°C	D.O. (mg/L)	TDS (mg/L)	TDS (lbs)	pH	Alk.	TSS (mg/L)	TSS (lbs)	BOD (mg/L)	BOD (lbs)	Hg	Hg (lbs.)	E.Coli	Cl2 Res	Flow (MGD)	°C Upstr.	°C Dnstr.	D.O. Upstr.	D.O. Dnstr.	pH Upstr.	pH Dnstr.	App. Upstr.	App. Dnstr.	Fec. Coli. Upstr.	Fec. Coli. Dnstr.	Hrdss.				
1	Sun	99	0.00	Clear	6.087	4.244	24	7.3	271	12			0.7	200				0.230				24	7.1			7.5	166	3.00	96.05	8.00	256.14				0.05	3.839															
2	Sat	95	0.00	Clear	5.347	3.606	24	7.4	313	13	198	193	0.2	200				0.209				24	6.9			7.4	166	2.00	56.35	4.00	112.69				0.05	3.378															
3	Mon	95	0.00	P.Cloudy	5.888	3.688	24	7.3	285	16	140	191	0.2	220	69	3,175	15	0.223	18	38.98	6.81	24	6.8	435	13,285	7.5	185	3.00	91.62	5.00	152.71	0.00005	0.0015	1.0	0.05	3.662															
4	Tue	96	0.00	Clear	5.369	3.725	24	7.5	306	17	258	254	0.2	260	103	2,520	7	0.228	19	18.17	3.35	25	7.0			7.4	182	1.00	23.99	4.00	95.98				1.0	0.05	2.877														
5	Wed	96	0.00	P.Cloudy	5.052	3.632	24	7.4	303	18	312	268	0.1	210	53	3,957	10	0.214	17	16.44	2.71	23	6.8			7.7	189	2.00	53.21	5.00	133.02				0.05	3.190															
6	Thu	97	0.00	P.Cloudy	4.926	3.675	23	7.3	267	15	360	237	0.5	210	99	2,119	5	0.222	17	18.40	3.03	24	7.0			7.4	188								0.05	3.124															
7	Fri	96	0.00	Clear	4.632	3.560	24	7.3	275	17			0.2	230				0.212				24	6.9			7.4	179								0.05	2.942															
8	Sat	96	0.00	Clear	4.860	3.413	23	7.3	268	18			0.2	230				0.219				24	6.8			7.5	173	2.00	51.64	5.00	129.10				0.05	3.096															
9	Sun	93	0.00	Clear	4.836	3.468	24	6.9	325	17	270	241	0.1	210	77	2,744	8	0.230	19			24	6.8			7.4	176	3.00	79.61	7.00	185.77				3.0	0.05	3.182														
10	Mon	91	0.00	Clear	4.731	3.414	23	7.4	268	15	116	171	0.2	230	88	2,625	19	0.222	19	32.99	6.08	23	6.9			7.5	181	4.00	99.68	5.00	124.60				1.0	0.05	2.988														
11	Tue	92	0.00	Clear	4.553	3.463	24	7.4	313	14	184	200	0.2	200	75	2,680	13	0.222	17	35.67	5.88	24	7.1			7.5	180	4.00	96.68	6.00	145.02				0.05	2.898															
12	Wed	93	0.35	Clear	4.688	3.335	24	7.5	312	16	200	242	0.2	210				0.223	17	34.16	5.63	24	6.8			7.5	188	3.00	74.16	5.00	123.60				0.05	2.964															
13	Thu	81	0.14	Cloudy	4.935	3.172	24	7.4	281	19	196	237	0.3	210	92	2,280	9	0.224	17	33.34	5.50	24	6.8			7.5	185								0.05	3.127															
14	Fri	92	0.01	Cloudy	4.817	3.166	23	7.3	265	18			0.2	200				0.218				23	6.1			7.5	172								0.05	3.023															
15	Sat	91	0.00	Clear	4.660	3.246	22	7.2	255	20			0.3	220				0.222				23	6.6			7.5	169	3.00	75.54	6.00	151.07				0.05	3.019															
16	Sun	93	0.00	Clear	4.847	3.247	24	7.4	317	15	174	226	0.2	180	89	2,030	10	0.210	17	35.28	5.82	25	6.9			7.5	183	3.00	77.26	6.00	154.52				1.0	0.05	3.088														
17	Mon	93	0.00	Clear	4.644	3.152	24	7.5	316	21	296	244	0.1	190	97	1,950	6	0.227	18	34.11	5.96	24	6.5			7.5	183	2.00	49.32	5.00	123.31				1.0	0.05	2.957														
18	Tue	94	0.00	Clear	4.564	3.822	23	7.5	356	20	246	220	0.2	170	59	2,879	10	0.228	17	34.26	5.65	23	6.7			7.8	192	2.00	48.02	4.00	96.04				0.05	2.879															
19	Wed	90	0.00	Clear	4.497	3.747	24	7.4	309	17	182	194	0.2	190	101	1,885	9	0.221	15	36.81	5.36	25	6.8			7.5	192	3.00	68.93	5.00	114.88				0.05	2.755															
20	Thu	81	0.03	Cloudy	4.449	3.720	24	7.3	257	21	272	277	0.2	190				0.219				25	6.7			7.4	200								0.05	2.429															
21	Fri	87	0.05	Cloudy	4.232	3.643	24	7.3	285	20			0.2	210				0.221				25	6.7			7.5	191								0.05	2.488															
22	Sat	83	0.00	Cloudy	4.433	3.581	24	7.4	277	21			0.1	200				0.218				24	6.8			7.5	184	3.00	70.53	4.00	94.04				0.05	2.819															
23	Sun	89	0.00	P.Cloudy	4.621	3.590	24	7.4	313	20	258	219	0.2	190	106	1,790	6	0.227	15	18.77	2.73	25	6.8			7.5	187	4.00	97.91	6.00	146.87				1.0	0.05	2.935														
24	Mon	77	0.38	Cloudy	4.705	3.614	25	7.4	293	20	298	288	0.2	200	106	1,880	5	0.227	17	18.46	3.04	25	6.7			7.5	202	2.00	49.09	5.00	122.72				1.0	0.05	2.943	PARTIAL WEEKLY AVG.NO.'s													
25	Tue	93	0.00	Cloudy	5.488	3.635	25	7.4	317	17	250	240	0.2	200	103	1,950	6	0.225	16	31.53	4.89	24	6.8			7.5	186	2.00	57.08	5.00	142.70				0.05	3.422	Date	Week No.	TSS	BOD											
26	Wed	80	1.92	Cloudy	5.529	3.077	24	6.9	175	18	76	158	0.2	180	70	2,575	25	0.214	16	52.40	8.13	25	6.4			7.5	192	2.00	58.20	5.00	145.49				0.05	3.489															
27	Thu	90	0.00	Clear	6.798	3.263	24	7.3	256	10	200	195	0.2	210	95	2,205	6	0.223	16	8.36	1.30	24	6.9			7.5	173								0.05	4.207															
28	Fri	87	0.24	Cloudy	5.376	3.188	24	7.4	283	15			0.1	170				0.209				24	6.7			7.5	210								0.05	3.350															
29	Sat	86	0.00	Cloudy	4.970	3.188	24	7.4	281	15			0.2	200				0.228				25	6.7			7.5	183	3.00	124.35	7.00	290.15				0.05	4.970															
30	Sun	88	0.00	P.Cloudy	5.012	3.292	24	7.4	311	15	180	198	0.1	170	88	1,935	9	0.224	17	21.34	3.52	25	6.9			7.6	190	2.00	52.83	6.00	158.48				1.0	0.05	3.167														
31																																					1	2	3	4	5										
TOTAL :		3.12			149.546															519.47	85.41													1.1		95.207	TSS	2.20	3.20	2.60	2.60										
MIN :	77	0.00			4.232	3.077	22	6.9	175	10	76	158	0.1	150	53	1,790	5	0.209	15	32.00		23	6.1			7.4	166	1.00		4.00				1.0	0.05	2.429	BOD	5.20	5.60	5.20	5.00										
MAX :	99	1.92			6.798	4.244	25	7.5	356	77	360	288	0.7	200	106	3,957	25	0.230	19	52.40	8.13	25	7.1	435		7.8	210	3.20		5.60		0.05000		3.0	0.05	4.970															
AVG :	90				4.985	3.486	24			17	222	223		193	87			0.221	17	28.86	4.74			435	13,285			2.64	70.55	5.36	145.40	0.05000	0.0015			3.174															

REMARKS :

Electrical Costs :	20,539.72
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