



MONTHLY OPERATIONAL REPORT
City of Broken Arrow Lynn Lane Wastewater Treatment Facility
July-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.	Hrds.		
1	Mon	91	0.03	clear	5.169	2.840	22	7.4	323	65	214	193	0.2	140	28	5,015	18	0.198	26	44.44	11.21	23	7.1			7.5	172	2.00	52.84	4.00	105.68			1.0	0.05	3.168													
2	Tue			cloudy	5.016	3.224	22	7.4	263	16	248	221	0.2	150	37	4,008	13	0.214	28	22.49	6.11	23	7.1			7.5	188	2.00	48.84	6.00	146.52			2.0	0.05	2.928													
3	Wed			clear	5.190	3.260	22	7.4	214	12	320	213	0.2	150	40	3,780	9	0.208	20	40.28	7.82	22	7.1			7.4	177	3.00	72.83	5.00	121.39				0.05	2.911													
4	Thur			p. cloudy	5.335	3.131	23	7.3	275	16	358	226	0.1	160				0.189	20	18.59	3.61	23	6.9			7.4	165	2.00	55.54	5.00	138.86				0.05	3.330													
5	Fri			clear	5.043	3.185	22	7.4	320	19	474	261	0.1	180				0.202	20	64.39	12.49	24	6.9			7.4	171							0.05	3.185														
6	Sat	92	0.02	cloudy	4.837	2.982	22	7.3	309	18			0.1	200				0.199	20	44.78	8.69	24	7.1			7.4	175							0.05	3.041														
7	Sun			cloudy	5.257	2.883	22	7.2	245	17			0.2	200				0.197				23	6.9	450	12,374	7.3	160	2.00	54.99	4.00	109.99	0.00005	0.0014		0.05	3.297													
8	Mon			cloudy	5.280	2.755	23	7.5	327	15	306	193	0.2	160	23	7,105	18	0.215	17	18.43	3.04	24	6.9			7.4	160	2.00	55.48	4.00	110.96			1.0	0.05	3.326													
9	Tue			clear	5.152	3.282	23	7.4	330	17	290	221	0.2	190	40	4,795	13	0.208	17	24.88	4.10	22	7.1			7.4	170	2.00	53.39	4.00	106.79			1.0	0.05	3.201													
10	Wed	95	0.16	p. cloudy	4.932	3.159	23	7.3	266	18	272	233	0.3	190	34	5,585	17	0.183	25	42.64	10.34	24	6.7			7.4	160	2.00	51.81	4.00	103.62				0.05	3.106													
11	Thur			clear	4.890	3.089	23	7.5	335	8	142	140	0.3	190	56	3,377	19	0.197	24	42.59	9.92	24	7.1			7.4	178	2.00	65.99	6.00	197.96				0.05	3.956													
12	Fri			clear	4.788	3.210	22	7.3	270	5	94	176	0.2	200	45	4,488	40	0.197	24	37.49	8.73	23	7.0			7.5	191							0.05	2.968														
13	Sat			clear	4.654	3.210	22	7.3	268	6			0.2	220				0.196				24	7.0			7.5	184							0.05	2.928														
14	Sun			clear	4.611	3.108	22	7.3	265	15			0.1	250				0.206				24	7.0			7.4	155	2.00	48.12	5.00	120.30				0.05	2.885													
15	Mon			cloudy	4.609	2.992	23	7.3	267	3	92	154	0.2	160	28	5,779	55	0.473	21	22.17	4.52	23	7.0			7.5	165	2.00	48.16	4.00	96.31			1.0	0.05	2.887													
16	Tue	96	0.01	clear	4.361	2.879	23	7.1	225	1.5	166	138	0.2	210	72	2,910	16	0.203	21	42.00	8.56	23	6.9			7.5	183	2.00	43.94	3.00	65.90			1.0	0.33	2.634													
17	Wed			clear	4.945	2.534	23	7.5	354	1	64	154	0.2	200	63	3,175	40	0.197	22	43.28	9.24	23	6.9			7.5	190	2.00	51.74	5.00	129.35				0.05	3.102													
18	Thur			clear	4.749	2.520	24	7.6	358	7	110	186	0.3	220	75	2,930	22	0.190	21	41.24	8.40	24	6.8			7.5	194	2.00	49.01	6.00	147.02				0.05	2.938													
19	Fri			clear	4.767	2.547	24	7.5	355	5.5	118	192	0.5	230	77	3,005	21	0.188	23	39.16	8.74	24	6.9			7.5	196							0.05	2.893														
20	Sat			clear	4.690	3.244	23	7.3	272	4			0.2	240				0.208	23	20.23	4.51	24	6.7			7.4	194							0.05	2.412														
21	Sun			p. cloudy	4.690	3.004	23	7.3	266	6			0.1	260				0.206				24	6.8			7.4	178	3.00	63.93	6.00	127.85				0.05	2.555													
22	Mon			cloudy	4.811	2.932	23	7.4	254	5	168	150	0.2	250	92	2,715	13	0.191	25	40.69	9.87	23	6.9			7.4	169	2.00	48.56	5.00	121.39			1.0	0.05	2.911													
23	Tue			clear	4.885	2.940	23	6.6	382	250	2336	134	0.2	300	78	3,850	1	0.224	21	40.55	8.26	23	7.0			7.5	186	2.00	50.72	5.00	126.81			2.0	0.05	3.041													
24	Wed			clear	4.367	2.748	24	7.5	344	11	216	194	0.4	320	132	2,430	10	0.200	16	137.80	21.39	24	6.8			7.4	184	2.00	45.60	5.00	114.01				0.05	2.734	PARTIAL WEEKLY AVG.NO.'s												
25	Thur			clear	4.714	2.713	24	7.5	348	5	138	235	0.4	280	102	2,755	17	0.190	21	62.74	12.78	23	6.7			7.4	191	3.00	71.48	5.00	119.14				0.05	2.857	Date	Week No.	TSS	BOD									
26	Fri	88	0.00	clear	5.980	2.625	24	7.5	313	18	212	240	0.2	270	109	2,470	8	0.204	18	15.29	2.67	24	6.8			7.5	200							0.05	2.732	6/30	1	2.00	4.00										
27	sat			clear	3.851	2.624	2	7.4	285	16			0.2	280				0.197				24	6.9			7.4	198							0.05	2.962	8/1	5	2.00	4.00										
28	Sun	94	0.00	clear	4.228	2.491	23	7.3	278	14			0.2	270				0.200				25	6.8			7.4	176	2.00	44.17	4.00	88.34				0.05	2.648													
29	Mon	91	0.35	cloudy	4.389	2.579	24	7.3	263	7	122	187	0.1	280	129	2,175	16	0.210	19			24	6.7			7.5	167	2.00	46.80	4.00	93.61			1.0	0.05	2.806													
30	Tue	93	0.01	clear	4.821	3.498	24	7.5	286	2	120	137	0.1	250	125	2,005	14	0.201	19	21.33	3.93	24	6.9			7.5	182	2.00	50.26	5.00	125.64			1.0	0.05	3.013													

REMARKS : High effluent CL2 due to plant/head works coming back online
Weather station didn't provide any data

Electrical Costs :	18,328.78
Labor Costs :	46,566.87
Chemicals, Lab Supplies & Services :	14,768.84
Repairs, Maint., Services & Admin. :	15,122.84
Sludge (Generation & Transportation) :	27,084.49
TOTAL COSTS :	121,871.82
COST / TRTD. 1000 GAL :	1.32