



MONTHLY OPERATIONAL REPORT
City of Broken Arrow Lynn Lane Water Reclamation Facility
August-23

WEATHER					INFLUENT							EAST OXIDATION DITCH					WEST OXIDATION DITCH					SLUDGE WASTING					DIGESTER			FINAL EFFLUENT																				NOTES					
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. Sett.	SVI (ml/gm)	MLSS (mg/L)	Sl. Age (Days)	D.O. (mg/L)	30 Min. Sett.	SVI (ml/gm)	MLSS (mg/L)	Sl. Age (Days)	WAS (MGD)	WAS MLSS (mg/L)	CAKE (%)	LANDFILL (Tons)	LANDFILL (D.M. Tons)	THK EFFL % MLVSS (mg/L)	BP FEED % MLVSS (mg/L)	VECTOR ATT-RED. (%)	°C	D.O. (mg/L)	TDS (mg/L)	TDS (lbs)	pH	Alk.	TSS (mg/L)	TSS (lbs)	BOD (mg/L)	BOD (lbs)	Hg (mg/L)	Hg (lbs.)	E.Coli	Cl2 Res	CL2 lbs/day	Effl. Flow (MGD)	Non-Potable (MGD)								
1	Tue	103	0.00	Clear	4.760	6.317	23	7.4	252	28	294	266						0.2	740	243	3,050	17	0.193	4,450	16	35.43	5.50						24	6.9			7.6	241	6.30	244.53	9.00	349.33	0.00005	0.0019	16.8	0.04	80	4.654	0.000	Electrical Usage :	38,593				
2	Wed	104	0.00	Clear	4.773	6.288	23	7.5	253	32	302	292						0.4	580	228	2,540	14	0.193	4,290				15,050					24	6.8	463	18,230	7.7	237	5.10	200.80	9.00	354.36				0.04	160	4.721	0.000	Labor :	55,521				
3	Thu	105	0.00	Clear	4.694	6.297	24	7.5	259	35	372	313						0.4	520	182	2,860	13	0.193	4,150	15	16.36	2.38						26	6.8			7.7	247	6.70	255.19	10.00	380.89				0.04	160	4.567	0.000	Natural Gas :	160				
4	Fri	105	0.00	Clear	4.729	6.366	26	7.3	268	33	392	335						0.6	530	193	2,750	12	0.160	4,300	15	13.12	1.91	14,975					26	6.6			7.6	246							0.04	160	4.504	0.000	Chemical, Laboratory	34,586					
5	Sat	88	0.46	P Cloudy	9.452	6.329	23	7.4	259	28								0.2	750				0.160									24	6.6			7.5	245							0.04	160	9.012	0.000	Supplies & Services :							
6	Sun	88	0.57	Cloudy	6.039	6.251	23	7.3	220	20								0.3	360				0.160									23	6.9			7.6	216	52.00	2291.57	21.00	925.44				0.04	160	5.284	0.000	Repairs, Maintenance,	58,453					
7	Mon	90	0.80	Cloudy	6.298	6.242	22	7.4	206	16	204	203						1.1	480	177	2,710	17	0.160	4,820				14,575				23	6.8			7.6	210	93.30	4243.88	31.00	1410.08		866.4	0.04	160	5.454	0.000	Services & Admin. :							
8	Tue	88	1.15	Cloudy	7.086	8.515	23	7.1	145	13	234	204						1.1	360	151	2,390	12	0.160	4,320								24	6.5			7.5	205	11.30	583.26	8.00	412.93		2419.6	0.04	160	6.189	0.000	Sludge (Generation &	12,924						
9	Wed	89	0.21	Cloudy	7.085	8.427	23	7.5	243	15	210	184						1.0	400	151	2,650	14	0.160	3,950				12,000				24	6.9			7.6	205	11.50	609.70	9.00	477.16				0.04	160	6.357	0.000	Transportation) :						
10	Thu	94	0.00	Cloudy	6.434	8.470	24	7.5	268	14	174	196						0.8	480	183	2,620	19	0.160	3,940								25	6.9			7.6	237	8.60	422.31	9.00	441.95				0.04	160	5.888	0.000	TOTAL COSTS :	200,236					
11	Fri	99	0.00	Clear	5.545	8.522	24	7.3	284	19	316	238						0.3	550	171	3,210	15	0.160	4,330				11,425				25	6.9			7.6	231							0.04	160	5.175	0.000	COSTS - 1,000 GAL.	1.28						
12	Sat	91	0.00	Rain														0.2	640				0.160								25	6.9			7.6	234							0.04	160	5.110	0.000	TREATED :								
13	Sun	97	0.00	Cloudy	5.125	8.340	23	7.4	265	17								0.6	680				0.160								24	6.9			7.6	231	134.00	5457.05	43.00	1751.14				0.04	160	4.883	0.000	Non-Potable Water	0						
14	Mon	85	0.67	P Cloudy	6.190	8.256	24	7.3	210	15	208	203						0.4	540	176	3,060	19	0.160	5,070				12,600	8,700	31	24	6.8			7.5	216	430.00	20323.00	79.00	3733.76		44.3	0.04	160	5.667	0.000	Use Savings :								
15	Tue	85	0.00	Clear	6.112	8.067	23	7.5	259	50	727	253						0.9	750	207	3,630	7	0.160	5,130							24	7.1			7.5	231	26.70	1255.24	14.00	658.18		25.0	0.04	160	5.637	0.000									
16	Wed	87	0.00	Clear	5.310	8.234	22	7.4	246	18	168	209						1.0	570	159	3,590	32	0.160	4,870	14	13.99	1.90	14,450	6,725	53	23	7.8			7.5	230	22.00	923.64	12.00	503.80				0.04	160	5.034	0.000	Note: East Oxidation Ditch out of service.							
17	Thu	93	0.00	Clear	5.144	8.271	23	7.4	243	18	192	221						0.9	710	199	3,560	29	0.160	4,830	14	14.18	1.93				24	6.9			7.6	246	55.00	2187.54	21.00	835.24				0.04	160	4.769	0.000	08-07 High inflow/infiltration event.							
18	Fri	95	0.00	Clear	5.104	8.359	24	7.4	269	19	254	241						0.2	830	200	4,140	26	0.160	5,500	14	30.06	4.08	14,725	7,425	50	25	6.6			7.5	239							0.04	160	5.052	0.000	08-08 High inflow/infiltration event.								
19	Sat	101	0.00	Clear	5.081	8.283	24	7.4	260	25								0.2	770				0.160								24	6.7			7.5	227							0.04	160	4.568	0.000	08-20 Pumped FEB into the process at a high								
20	Sun	106	0.00	Clear	4.998	8.357	24	7.4	256	35								0.2	750				0.160								25	6.6			7.5	220	136.00	5164.19	43.00	1632.80				0.04	160	4.553	0.000	rate, resulting in high TSS and BOD.							
21	Mon	103	0.00	Clear	5.191	6.624	24	7.6	283	26	292	279						0.2	640	201	3,180	17	0.160	4,630	14	15.92	2.16	14,500	7,950	45	25	6.8			7.4	226	5.70	220.91	7.00	271.29		2.0	0.04	160	4.647	0.000									
22	Tue	100	0.00	Clear	5.157	6.342	25	7.5	268	26	298	283						0.5	640	191	3,350	17	0.160	4,980	13	13.51	1.70				26	6.9			7.6	235	4.50	181.46	6.00	241.94		5.2	0.04	160	4.835	0.000									
23	Wed	98	0.00	Clear	5.114	6.330	24	7.5	254	19	196	216						0.6	640	180	3,550	28	0.160	5,010	13	33.70	4.25	15,050	8,025	47	26	6.7			7.6	233	3.70	151.36	8.00	327.26				0.04	160	4.905	0.000								
24	Thu	101	0.00	Clear	4.989	6.355	24	7.5	258	21	234	245						0.5	780	238	3,280	22	0.160	4,790							26	6.7			7.6	234	5.30	212.26	8.00	320.39				0.04	160	4.802	0.000								
25	Fri	102	0.00	Clear	5.036	6.306	25	7.6	298	20	240	231						0.3	680	207	3,280	22	0.160	5,190	14	49.48	6.72	14,325	8,275	42	26	6.5			7.6	237							0.04	160	4.591	0.000									
26	Sat	96	0.00	P Cloudy	5.063	6.283	24	7.5	255	19								0.5	700				0.160								25	6.4			7.5	235							0.04	160	4.667	0.000	PARTIAL WEEKLY AVG.NO.'s								
27	Sun	89	0.00	P Cloudy	4.903	6.267	24																																																