CITY OF BROKEN ARROW
Where opportunity lives

MONTHLY OPERATIONAL REPORT

City of Broken Arrow Lynn Lane Water Reclamation Facility

February-24

		WEATHER			INFLUENT								EAST OXIDATION DITCH					WEST OXIDATION DITCH					SLUDGE WASTING					DIGESTER			FINAL EFFLUENT																
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. Settl.	SVI (ml/gm)	MLSS (mg/L)	Sl. Age (Days)	D.O. (mg/L)	30 Min. Settl.	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	Thu	72	0.00	P Cloudy	6.057	8.099	17	7.5	297	27	364	353						1.0	710	171	4,160	15	0.200	6,290	11	34.52	3.68				17	7.3			7.4	203	2.00	97.58	4.00	195.16				0.04	0	5.850	0.256
2	Fri	67	0.00	P Cloudy	5.707	8.104	17	7.5	303	18	278	306						0.9	760	189	4,020	20	0.200	5,800	11	50.14	5.35	20,050	13,125	35	18	7.4			7.5	198								0.04	0	4.616	0.243
3	Sat	60	0.63	Cloudy	5.620	8.081	18	7.5	282	16								1.1	800				0.200								19	7.4			7.5	207								0.04	0	4.632	0.216
4	Sun	52	0.28	Cloudy	6.762	8.087	17	7.3	205	17								1.3	690				0.200								18	6.5	441	21,384	7.4	183	3.80	184.26	6.00	290.93	0.00005	0.0024		0.04	0	5.814	0.196
5	Mon	57	0.00	Clear	7.792	8.122	16	7.5	258	14	238	188						1.0	680	202	3,360	14	0.200	6,530	12	40.40	4.70	21,275	12,525	41	17	7.3			7.4	168	2.60	143.63	3.00	165.73			1.0	0.04	0	6.624	0.194
6	Tue	64	0.00	Clear	7.616	8.106	16	7.5	272	10	176	190						0.3	730	201	3,630	22	0.200	6,290	13	64.81	8.17				17	7.1			7.4	180	2.70	137.70	3.00	153.00				0.04	0	6.115	0.236
7	Wed	65	0.00	P Cloudy	7.321	8.106	16	7.5	287	14	230	176						1.0	760	205	3,710	18	0.200	6,190	11	38.03	4.06	22,700	16,750	26	17	6.9			7.4	196	2.40	117.47	3.00	146.84				0.04	0	5.869	0.206
8	Thu	72	0.00	Clear	7.055	8.086	17	7.5	288	13	178	205						1.0	740	208	3,550	23	0.200	6,040	12	35.41	4.12				18	6.9			7.4	205	2.40	116.43	4.00	194.06				0.04	0	5.817	0.193
9	Fri	73	0.00	Cloudy	6.233	8.051	17	7.5	298	17	298	306						0.8	700	193	3,620	16	0.200	5,450	11	34.47	3.68	22,375	14,450	35	18	7.2			7.4	203								0.04	0	5.024	0.204
10	Sat	53	0.00	Cloudy	5.567	8.168	17	7.5	288	7								1.2	710				0.200								18	7.6			7.5	202								0.04	0	4.565	0.193
11	Sun	43	0.19	Cloudy	5.515	8.163	18	7.6	305	20								0.8	630				0.200								17	7.6			7.5	193	2.40	90.11	3.00	112.64				0.04	0	4.502	0.187
12	Mon	51	0.42	Snow	5.778	8.173	17	7.4	249	19	316	262						0.8	720				0.200	5,400	11	38.34	4.09	14,825			17	7.3			7.5	204	2.60	104.08	3.00	120.10			4.1	0.04	0	4.800	0.191
13	Tue	62	0.00	Clear	6.796	8.116	16	7.5	264	16	300	290						1.1	690	204	3,380	13	0.200	4,330	12	52.68	6.13				16	7.8			7.4	180	2.90	134.35	3.00	138.99				0.04	0	5.555	0.176
14	Wed	69	0.00	Clear	6.024	8.112	18	7.5	289	20	422	232						0.9	670	201	3,340	11	0.200	5,230	12	54.96	6.40	18,650	13,275	29	17	7.7			7.5	180	2.20	87.41	3.00	119.20				0.04	0	4.764	0.195
15	Thu	60	0.00	Clear	6.526	8.067	16	7.5	291	19	368	324						1.0	680	202	3,360	11	0.200	5,380	12	36.72	4.28				17	7.4			7.5	208	2.20	101.32	2.00	92.11				0.04	0	5.522	0.199
16	Fri	46	0.00	Cloudy	5.693	7.991	17	7.5	299	17	288	259						0.7	660	199	3,310	16	0.200	5,320	12	35.64	4.15	19,700	14,125	28	17	7.4			7.5	195								0.04	0	4.506	0.169
17	Sat	34	0.00	Cloudy	5.486	8.002	16	7.6	287	20								0.3	640				0.200								16	7.7			7.5	200								0.04	0	4.457	0.164
18	Sun	56	0.00	Clear	5.246	8.078	16	7.5	295	19								0.2	700				0.200								14	7.8			7.5	199	2.70	93.95	3.00	104.38				0.04	0	4.172	0.168
19	Mon	63	0.00	Clear	5.631	8.199	17	7.5	300	20	340	299						0.9	690	220	3,130	13	0.200	4,440	12	34.95	4.07	20,650	12,000	42	17	7.5			7.4	186	2.60	95.52	3.00	110.21				0.04	0	4.405	0.153
20	Tue	73	0.00	Clear	5.695	8.172	18	7.5	297	20	302	311						0.8	660	218	3,030	14	0.200	4,640	12	34.79	4.05				18	7.2			7.4	197	2.10	79.90	4.00	152.19			6.3	0.04	0	4.562	0.164
21	Wed	83	0.00	Clear	5.306	8.235	17	7.5	297	20	404	298						0.7	600	176	3,400	13	0.200	5,160	12	48.61	5.66	17,975	13,625	24	18	7.3			7.5	204	2.30	81.85	4.00	142.35				0.04	0	4.267	0.258
22	Thu	72	0.00	Clear	5.377	8.204	18	7.5	302	20	352	310						0.9	740	226	3,280	14	0.190	4,730	12	17.77	2.07				19	7.0			7.5	201	2.30	83.36	4.00	144.98				0.04	0	4.346	0.275
23	Fri	68	0.00	Clear	5.437	8.197	17	7.6	301	20	448	342						0.7	710	227	3,130	10	0.190	4,810	12	18.57	2.16	19,050			18	7.3			7.5	203								0.04	0	4.309	0.283
24	Sat	71	0.00	Clear	4.924	8.149	17	7.6	294	21								0.2	720				0.190		12	7.50	0.87				17	7.6			7.6	204								0.04	0	3.705	0.277
25	Sun	78	0.00	Clear	5.337	8.218	18	7.5	304	24								0.9	700				0.190								19	7.1			7.5	191	2.50	85.53	4.00	136.84				0.04	0	4.102	0.277
26	Mon	83	0.00	P Cloudy	5.569	8.133	18	7.5	279	19	372	287						0.7	690	217	3,180	12	0.190	4,510	11	15.24	1.63	23,075	13,025	44	19	7.0			7.5	203	2.00	70.76	3.00	106.13			7.4	0.04	0	4.242	0.280
27	Tue	80	0.00	Cloudy	5.463	8.165	19	7.6	331	22	420	308						0.7	670	220	3,040	11	0.190	4,570	12	51.75	6.02				20	6.9			7.4	211	2.10	76.41	4.00	145.55				0.04	0	4.363	0.281
28	Wed	45	0.00	Clear	4.297	8.181	16	7.6	329	20	416	310						1.0	750	241	3,110	14	0.190	4,670	13	41.56	5.24	20,500	12,375	40	17	7.7			7.5	214	2.00	64.77	5.00	161.92				0.04	0	3.883	0.278
29	Thu	54	0.00	P Cloudy	5.147	8.199	17	7.6	329	20	370	335						1.1	750	236	3,180	13	0.190	4,920	12	31.48	3.67				17	7.8			7.4	190	2.00	63.15	4.00	126.30				0.04	0	3.786	0.274
30																																																
31																																																
TOTAL :			1.52		170.977																		5.720			818.34	94.26															3.7		0	139.174	6.386
MIN :		34	0.00		4.297	7.991	16	7.3	205	7	176	176						0.2		171	3,030	10	0.190	4,330	11	53.00				24	14	6.5			7.4	168	2.00		2.00				1.0	0.04		3.705	0.153
MAX :		83	0.63		7.792	8.235	19	7.6	331	27	448	353						1.3		241	4,160	23	0.200	6,530	13	64.81	8.17			44	20	7.8	441		7.6	214	2.78		4.00		0.05000		7.4	0.04		6.624	0.283
AVG :		63			5.896	8.130	17			18	328	281								208	3,396		0.197	5,271	12	37.20	4.28			34			441	21,384			2.42	100.45	3.57	145.70	0.05000	0.0024				4.799	0.220

NOTES	
Electrical Usage :	34,901
Labor :	68,556
Natural Gas :	384
Chemical, Laboratory Supplies & Services :	19,720
Repairs, Maintenance, Services & Admin. :	78,166
Sludge (Generation & Transportation) :	32,198
TOTAL COSTS :	233,925
COSTS - 1,000 GAL.	1.68
TREATED :	
Non-Potable Water Use Savings :	5,339

East Oxidation Ditch out of service.

2-19 Holiday

PARTIAL WEEKLY AVG.NO.'s

Date	Week No.	TSS	BOD

WEEK	1	2	3	4	5
TSS	2.78	2.46	2.40	2.12	
BOD	3.80	2.80	3.60	4.00	

I hereby certify the above to be correct to the best of my knowledge.

Signed : Laurel Hardy

Title : *Lynn Lane Water Reclamation Facility Manager (WRF)*