

Boulder County LID - Eldorado Springs Wastewater Plant

Operations Report

January 2021

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WWTP

- Please see the attached results for the samples and flows collected from the WWTF.

ELDORADO SPRINGS WWTP

PERMIT# CO 0047651

Permitted Flow 0.032 (MGD)

Permitted Loading 73#/day

(cells highlighted contain formulas)

Parameter	21-Feb	21-Jan	20-Dec	20-Nov	20-Oct	20-Sep	20-Aug	20-Jul	20-Jun	20-May	20-Apr	20-Mar
INFLUENT - MONTHLY												
Average Influent/Effluent Flow (MGD)		0.017811	0.018146	0.0202	0.017167	0.016911	0.018469	0.01663	0.020489	0.028993	0.02416	0.0194
Maximum Influent/Effluent flow (MGD)		0.01886	0.02229	0.0209	0.022265	0.020842	0.01974	0.018864	0.02825	0.0347	0.02939	0.0244
Influent BOD (mg/L)	394	311	259	229	343	347	354	333	453	359	381	193
Influent BOD (#s/d)	0.00	48.76	38.77	35.16	49.26	54.12	55.05	52.39	65.76	38.17	63.55	20.35
Influent TSS (mg/L)	494	338	374	218	294	747	337	312	558	273	460	150
Influent TKN (mg/L)	84.80	87.30	109.60	63.10	90.62	112.00	109.40	61.10	80.60	42.80	86.50	68.30
* Plant Capacity Flow P (%)	0.00%	55.66%	56.71%	63.13%	53.65%	52.85%	57.72%	51.97%	64.03%	90.60%	75.50%	60.63%
* Plant Capacity Loading Q (%)	0.00%	66.80%	53.11%	48.16%	67.48%	74.13%	75.41%	71.77%	90.08%	52.29%	87.06%	27.88%
Day of sample Influent/Effluent Flow (MGD)		0.019	0.018	0.018	0.017	0.019	0.019	0.019	0.017405	0.01275	0.020	0.013
EFFLUENT - MONTHLY												
Temperature (Nov-Apr)												
Ammonia Nitrogen (mg/L)	0.44	0.42	0.89	0.34	1.85	3.43	9.3	1.8	0.05	0.19	0.115	0.45
Ammonia Nitrogen RA - See Tab												
TIN(mg/L) 10 max	7.33	4.44	8.69	14.69	9.36	6.13	9.975	4.67	4.57	3.43	11.53	1.31
TIN RA 1.5 Beginning 1/1/22	7.177	6.787	6.835	6.635	6.310	5.982	7.119	8.370	8.573	9.268	13.902	13.240
NO2+NO3 (mg/L)	6.88	4.02	7.8	14.34	7.52	2.69	0.67	2.87	4.52	3.24	11.415	0.86
Ecoli (#/100 ml)	1	1	1	1	1	1	3	1	1	4838	1	1
* Ecoli RA 127	404.25	404.25	404.33	404.33	404.33	404.33	404.33	404.17	408.18	408.18	28.77	28.77
pH (Minimum) 6.5		6.86	6.85	6.90	6.75	6.78	6.82	6.81	6.59	6.54	6.80	6.83
pH (Maximum) 9.0		7.30	7.08	7.49	7.16	7.03	7.02	7.21	6.91	7.12	7.49	7.89
Effluent TKN	3.80	2.90	1.00	1.10	1.90	4.80	13.70	1.80	0.03	1.10	1.15	1.90
* Average #'s Nitrate	0.00	0.63	1.17	2.20	1.08	0.42	0.10	0.45	0.66	0.34	1.90	0.09
Effluent Arsenic (ug/L)		6.00									4.40	2.70
2YR Arsenic									4.08			
Effluent Copper (ug/L)		9.50									5.00	5.50
2YR Copper									16.43			
EFFLUENT - QUARTERLY												
Effluent BOD (mg/L) 30/45 mg/L	2	6	6	2	2	6	5	5	2	7	10	5
Effluent TSS (mg/L) 30/45 mg/L	5	16	7	6	8	14	12	12	7	6	6	13
* BOD % Removal	99.49%	98.07%	97.68%	99.13%	99.42%	98.27%	98.59%	98.50%	99.56%	98.05%	97.38%	97.41%
* TSS % Removal	98.99%	95.27%	98.13%	97.25%	97.28%	98.13%	96.44%	96.15%	98.75%	97.80%	98.70%	91.33%