

Boulder County LID – Eldorado Springs Wastewater Plant

Operations Report

March 2021

Prepared by Gabby Begeman, ORC Water Professionals

WWTP

- Please see the attached results for the samples and flows collected from the WWTF.
- The box housing the vent valve that was damaged during the incident last year has been replaced.
- The UPS (uninterrupted power supply) has gone out and needs to be replaced. ORC will obtain and install a replacement uninterrupted power supply
- The field has been smoothed and the ruts are filled in.
- A new estimate for the DO control has been obtained. It is attached.

Collections system

- No grinders required replacement/repair in March.

ELDORADO SPRINGS WWTP

PERMIT# CO 0047651

Permitted Flow 0.032 (MGD)

Permitted Loading 73#/day

(cells highlighted contain formulas)

Parameter	21-Mar	21-Feb	21-Jan	20-Dec	20-Nov	20-Oct	20-Sep	20-Aug	20-Jul	20-Jun	20-May	20-Apr
INFLUENT - MONTHLY												
Average Influent/Effluent Flow (MGD)	0.018371	0.018914	0.017811	0.018146	0.0202	0.017167	0.016911	0.018469	0.01663	0.020489	0.028993	0.02416
Maximum Influent/Effluent flow (MGD)	0.02275	0.021802	0.01886	0.02229	0.0209	0.022265	0.020842	0.01974	0.018864	0.02825	0.0347	0.02939
Influent BOD (mg/L)	528	394	311	259	229	343	347	354	333	453	359	381
Influent BOD (#s/d)	80.95	55.33	48.76	38.77	35.16	49.26	54.12	55.05	52.39	65.76	38.17	63.55
Influent TSS (mg/L)	409	494	338	374	218	294	747	337	312	558	273	460
Influent TKN (mg/L)	97.20	84.80	87.30	109.60	63.10	90.62	112.00	109.40	61.10	80.60	42.80	86.50
* Plant Capacity Hydraulic P (%)	57.41%	59.11%	55.66%	56.71%	63.13%	53.65%	52.85%	57.72%	51.97%	64.03%	90.60%	75.50%
* Plant Capacity Organic Q (%)	110.90%	75.79%	66.80%	53.11%	48.16%	67.48%	74.13%	75.41%	71.77%	90.08%	52.29%	87.06%
Day of sample Influent/Effluent Flow (MGD)	0.018	0.017	0.019	0.018	0.018	0.017	0.019	0.019	0.019	0.017405	0.01275	0.020
EFFLUENT - MONTHLY												
Temperature (Nov-Apr)												
Ammonia Nitrogen (mg/L)	0.19	0.44	0.42	0.89	0.34	1.85	3.43	9.3	1.8	0.05	0.19	0.115
Ammonia Nitrogen RA - See Tab												
TIN(mg/L) 10 max	2.26	7.33	4.44	8.69	14.69	9.36	6.13	9.975	4.67	4.57	3.43	11.53
TIN RA 1.5 Beginning 1/1/22	7.256	7.177	6.787	6.835	6.635	6.310	5.982	7.119	8.370	8.573	9.268	13.902
NO2+NO3 (mg/L)	2.07	6.88	4.02	7.8	14.34	7.52	2.69	0.67	2.87	4.52	3.24	11.415
Ecoli (#/100 ml) use actual result on DMR	1	1	1	1	1	1	1	3	1	1	4838	1
* Ecoli RA 127	404.25	404.25	404.25	404.33	404.33	404.33	404.33	404.33	404.17	408.18	408.18	28.77
pH (Minimum) 6.5	6.94	6.81	6.86	6.85	6.90	6.75	6.78	6.82	6.81	6.59	6.54	6.80
pH (Maximum) 9.0	7.42	7.13	7.30	7.08	7.49	7.16	7.03	7.02	7.21	6.91	7.12	7.49
Effluent TKN	3.10	3.80	2.90	1.00	1.10	1.90	4.80	13.70	1.80	0.03	1.10	1.15
* Average #'s Nitrate	0.32	0.97	0.63	1.17	2.20	1.08	0.42	0.10	0.45	0.66	0.34	1.90