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DOLGEVILLE WWTF ANNUAL PERFORMANCE REPORT

2021

Parameter	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual Ave
Flow (mgd) Average	0.733	0.61	0.95	0.81	0.78	0.67	1.0	0.800	0.7	0.9	0.8	0.8	0.80
Max. Daily Flow	1	0.8	1.4	1	1.3	0.84	2.0	1.5	1.1	1.5	0.9	1	2.00
BOD Influent (mg/l)	68.2	122	70	65.8	88	75.8	46.8	107	97.1	36.8	84.8	78.6	78.4
BOD Influent (lbs/day)	465.9	608.2	468	441.1	599.1	407.7	413	698	540.8	291.2	547	528.8	500.7
BOD Effluent (mg/l)	20.7	4.8	5	5	5.8	7.9	5.1	3.6	5.6	5.1	6.3	7.8	6.9
BOD Effluent (lbs/day)	132.5	24.1	36	33.6	40.5	43.5	49.7	23.8	30.5	47	41.3	57.4	46.7
Percent % Removal	70	96	93	92	94	90	89	97	94	86	93	90	90.3
Susp. Solids Influent (mg/l)	85	116	61.3	58.8	75.4	89.3	37	131.1	63.6	28.9	58.3	53	71.5
Susp. Solids Influent (lbs/day)	563.7	579.3	421	391.4	365.8	476.5	328.6	835.5	354.5	217.2	380.5	358.4	439.4
Susp. Solids Effluent (mg/l)	7.2	6.3	3.5	4.1	6.3	10.7	7	5.6	4	7.4	8.2	8.6	6.6
Suspended Solids Effluent (lbs/day)	48.8	31.4	24	26.4	32.4	59.2	65.8	37.4	21.6	63.5	53.5	61	43.8
Percent % Removal	92	95	94	93	92	88	81	96	94	74	86	84	89.1
NH3 mg/l Influent (mg/l)	7	12.3	5.7	6.2	5.4	6.6	3	6.1	8.6	4.8	4.2		6.35
NH3 mg/l Effluent (mg/l)	0.34	2.6	5.6	0.9	0.7	0.8	0.2	0.3	1.8	0.1	0.2		1.23
Effluent (lbs/day)	48.4	11.7	33.5	6.2	5.4	5.4	1.3	1.7	9.2	0.8	1.5		11.37
TKN mg/l Influent (mg/l)	16.5	18.7	11.5	15.4	13.2	12.9	7.8	13.2	16.5	9.3	12.6		13.42
TKN mg/l Effluent (mg/l)	3.4	4.3	8	4.2	2.6	2.4	2.3	2.7	4.5	2	2.1		3.50
Effluent (lbs/day)	23.7	20.1	50.8	27.9	17.8	11.9	24.4	17.9	23.9	7.4	14.9		21.88
Phosphorus Infl. Conc. (mg/l)	2.5	2.3	2.2	2	2.3	2.1	1.1	1.8	2.1	1.3	1.6		1.94
Phosphorus Infl. (lbs/day)	17.5	10.6	15.9	13.9	16.1	10.3	9.6	11.7		10.3	11.6		12.75
Phosphorus Eff. Conc. (mg/l)	1.4	1	1.3	1.4	1.1	1.5	0.8	1.3	1.7	0.9	1.1		1.23
Phosphorus Eff. (lbs/day)	9.5	4.8	9.1	9.4	8.1	7.3	6.6	8.6		7.4	7.8		7.86
Mercury Eff. Conc. (Quarterly)			10.6			3.4			1.8			1.4	4.30
pH Influent Min	7.3	7.3	7.2	7.3	7.2	7.1	7.1	7.1	7.1	7.2	7.3	7.3	7.21
pH Influent Max	7.7	7.9	7.7	7.7	7.7	7.6	7.5	7.5	7.5	7.5	7.6	7.6	7.63
pH Effluent Min	7	7.1	7.1	7.1	7	6.9	6.9	7	7	7	6.7	7.3	7.01
pH Effluent Max	7.9	7.6	7.8	7.7	7.5	7.4	7.5	7.4	7.4	7.6	7.7	7.8	7.61
Settl. Solids Infl. Max (ml/l)	8	9.5	9.5	10	13	7.5	9	15	10	9	8	27	11.29
Settl. Solids Eff. Max (ml/l)	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0.03
Screenings Removed (cu. ft)	10.1	7.03	16.8	21.1	16.8	10.1	10.1	14.1	14.4	12.1	10.1	8	150.73
Grit Removed (cu. ft)	4.69	2.68	23.5	10.7	9.8	8.3	27.4	9.7	8	12.1	7.6	6.7	131.17
Grease Removed (cu. ft)	2.01	5.36	0	0	3.2	5.4	14.7	6.7	2	7.4	0.7	6.7	54.17
Digested Sludge Cake (ton)	10.0	0.0	0.0	0.0	0.0		8.0	0.0	0.0	20.0	0.0	10.0	38.0
Sludge cake % solids	20									22		22	21
Septage - outside hauler (gal)	2,000	2,000	3,000	9,300	1,500	12,000	5,000	5,000	7,000	7,000	5,000	4,000	62,800
Polymer gals.	15	0	0	0	0	0	15	0	0	30	0	15	75
Chlorine lbs					598	501	644	582	549	570			3444
Sulfur Dioxide lbs.					243	197	276	186	172.5	208.7			1283.2
Cl2 Effl. Residual max (mg/l)					0.08	0.06	0.09	0.1	0.09	0.12			0.12
Fecal coliform (cfu)					2.3	52.8	5.7	9.6	16.8	17.7			17.5
Total WWTP Flow (mgd)	22.7	17.1	29.5	24.3	24.2	20.10	31.60	24.10	20.43	26.58	23.10	26.12	289.86
Total Water Plant Flow (mgd)	14.97	14.18	16.40	15.17	16.69	16.55	15.77	17.32	15.80	15.56	14.36	14.57	187.34
Inflow/Infiltration (mgd-calculated)	7.75	2.90	13.13	9.13	7.51	3.55	15.83	6.78	4.63	11.02	8.74	11.55	102.52
Precipitation (in.)	3.9	2.4	0.7	2.6	2.5	3.4	10.3	5.1	3.2	8.5	4.5	4.0	51.1
Natural Gas Consumed (Therms)	1,050	712	774	1,268	889	616	453	401	479	570	924	1,429	9565
Diesel Fuel Consumed													0
Gasoline													0
Digester gas wasted (cu. ft)	0	0	0	0	0	0	0	0	0	0	0	0	0
Digester gas used in boiler (cu. ft)	53,200	0	0	0	0	0	0	0	0	0	0	0	53,200
Electric Commercial (kwh)	14,720	13,640	15,200	12,720	11,720	12,040	11,880	11,080	11,440	11,440	13,000	15,200	154,080
Pimephales promelas													Acute
Pimephales promelas													Chronic
Ceriodaphnia dubia													Acute
Ceriodaphnia dubia													Chronic

NOTE