

Fort Columbia St. Park**Wastewater Treatment Plant****Annual Treatment Facility Review Report (Wasteload Assessment)**

Reporting Year:

From: **Jan. 1** 2023To: **Dec. 31** 2023**Design Parameters:**

Max monthly design flow (dry):	0.005 MGD	Design Population Equivalent:	50
Max monthly design flow (wet):	0.005 MGD	Present Population Served:	
Peak daily design flow:	0.005 MGD	Projected Population growth:	
Design Influent BOD loading:	1.8 lbs/day	Compliance with effluent permit limitation?	
Design Influent TSS loading:	1.8 lbs/day	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Table 1, Influent Monthly Average Loading & Peak Daily Flow (From Monthly DMR)

Month	Avg flow (MGD)	Peak Flow (MGD)	BOD (lbs/day)	TSS (lbs/day)
January	0.000715	0.003211	0.57	0.19
February	0.000604	0.001161	0.37	0.13
March	0.000669	0.001033	0.43	0.14
April	0.000776	0.000975	0.73	0.39
May	0.000851	0.001483	0.54	0.35
June	0.000970	0.001604	0.44	0.23
July	0.001084	0.001549	1.20	0.94
August	0.001023	0.001543	0.60	0.29
September	0.000891	0.001510	0.65	0.31
October	0.000760	0.001307	0.66	0.22
November	0.000808	0.001519	0.67	0.27
December	0.000846	0.002915	0.36	0.19

Table 2, Maximum Influent Monthly Average Loading (Highest Month)

	Month	Monthly Value	Design Capacity	% Design Capacity	Previous year Monthly value	% Increase / Decrease
Dry Weather Flow MGD	July	0.001084	0.005000	21.68%	0.0008	43.96%
Wet Weather Flow MGD	December	0.000846	0.005000	16.92%	0.0007	25.89%
Peak Flow MGD	January	0.003211	0.005000	64.22%	0.0030	6.18%
BOD (lbs/day)	July	1.200000	1.800000	66.67%	0.8	44.58%
TSS (lbs/day)	July	0.940000	1.800000	52.22%	0.2	526.67%

* Flow or wasteload reached 85% of design capacity; ** Flow or wasteload reached or exceeded its design capacity

If actual flow or wasteload reaches 85% of design capacity for three consecutive months, the permittee shall submit a plan and schedule in accordance with their

permit.

Table 3, Maximum Monthly Average Data for the Last Three Years (For Plotting)

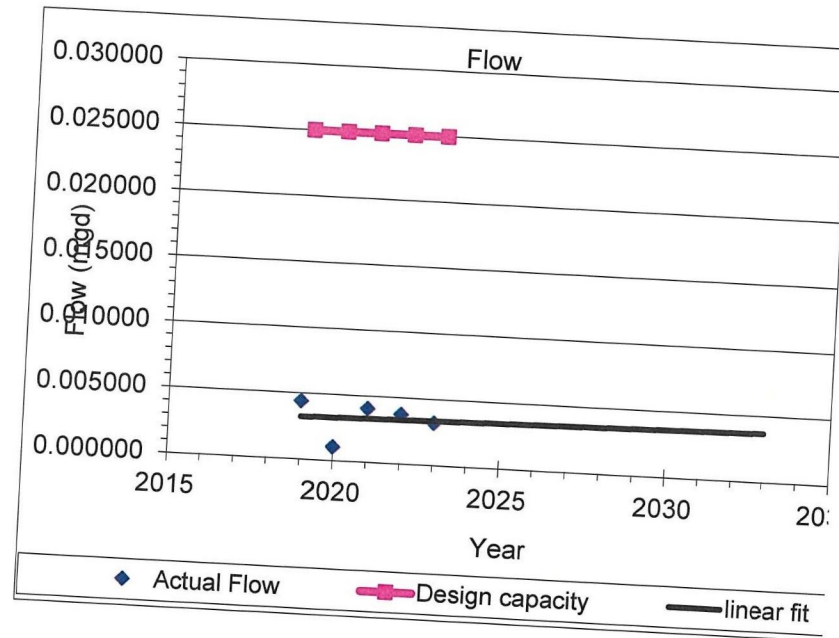
Year	Flow (MGD)	BOD (lbs/day)	TSS (lbs/day)
2021	0.000918	1.9	1.63
2022	0.000753	0.8	0.2
2023	0.001084	1.2	0.94

Estimated year when the design capacity is projected to be reached:
Comments:

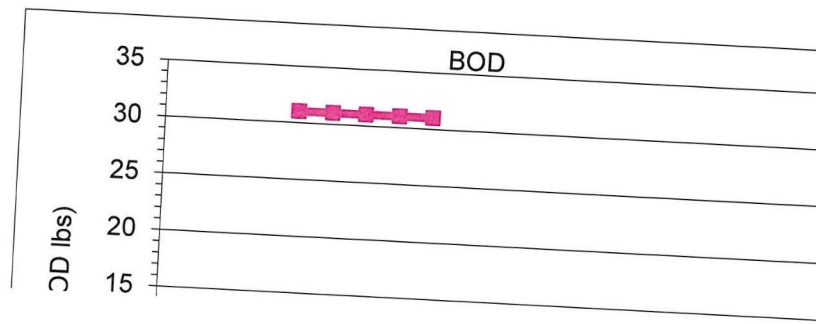
2050

Devin Lindstrand (Group 1) Construction & Maintenance P Supervisor
Signature and Title

Year	Max month Flow, mgd	Design cap, mgd
2019	0.004400	0.025000
2020	0.001030	0.025000
2021	0.004059	0.025000
2022	0.003741	0.025000
2023	0.003211	0.025000



Year	Max month BOD, lbs/day	Design lbs/day
2019	1.02	31
2020	0.95	31
2021	1.9	31
2022	1.41	31
2023	1.2	31



2020

Year	Max month TSS, lbs/day	Design lbs/day
2019	1.86	20
2020	0.55	20
2021	1.63	20
2022	0.29	20
2023	0.94	20

