



April 15, 2025

Mr. Isaiah Murrell-Thomas
WA State Dept. of Ecology
Southwest Region
PO Box 47775
Olympia, WA 98504-7775

Subject: Sections S4.E and S4.F of NPDES Permit No. WA-0023973. Infiltration and Inflow Evaluation and Wasteload Assessment Annual Reports for 2024.

Dear Mr. Murrell-Thomas,

Enclosed are the 2024 I & I Evaluation and Wasteload Assessment annual reports for the City of Port Angeles (COPA.)

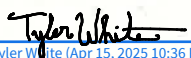
The Population Served values are generated from the number of utility billing accounts in the City's financial system. In 2024 641 new feet of sewer main line were added

The Wasteload Assessment shows that during all the months in 2024 the COPA Wastewater Treatment Plant, for all parameters, is below the 85% of design threshold for maximum monthly average.

In general, 2024 shows no significant increase in I&I or plant wasteload.

Please contact me with any questions you may have.

Sincerely,


Tyler White (Apr 15, 2025 10:36 PDT)

Tyler White
Wastewater Treatment Plant Superintendent
twhite@cityofpa.us
360-417-4690

Cc: Electronic File

The following tables and guidelines have been developed to assist in preparing an Annual Infiltration/Inflow

Port Angeles Wastewater Treatment Plant

Annual Infiltration/Inflow (I/I) Report

Reporting Year: From: 01/01/24 To: 12/31/24

Average Design Flow: 3.3 MGD Design Population Equivalent: 24800

Peak Design Flow: 13.4 MGD


	Average Monthly Flow (MGD)			Total Monthly Rainfall (inches)			Population Served number of billing accounts			Additional Sewer Lines Added (feet)		
	Year			Year			Year			Year		
Month	2022	2023	2024	2022	2023	2024	2022	2023	2024	2022	2023	2024
January	4.99	2.56	3.24	3.84	0.70	2.55	7,932	8,062	8,226	0	0	0
February	2.79	2.31	2.96	3.53	1.33	2.22	8,069	8,388	8,196	0	0	0
March	2.92	2.24	2.41	1.08	1.09	1.27	8,037	8,136	8,217	0	0	0
April	3.44	1.8	1.73	3.57	0.69	0.53	8,070	8,112	8,211	0	0	0
May	2.03	1.66	1.62	0.9	0.58	0.97	8,022	8,160	8,200	0	0	0
June	1.83	1.49	1.54	0.67	0.29	0.58	8,035	8,253	8,240	0	0	0
July	1.59	1.45	1.47	0.15	0.57	0.08	8,087	8,191	8,248	0	0	0
August	1.5	1.39	1.48	0.04	0.18	1.32	8,091	8,179	8,249	0	0	0
September	1.41	1.36	1.40	0.06	0.25	0.87	8,128	8,220	8,228	0	0	641
October	1.65	1.50	1.68	2.81	1.95	2.3	8,138	8,223	8,226	0	0	0
November	2.65	1.67	2.92	3.68	1.87	3.59	8,093	8,176	6,573	0	0	0
December	3.12	2.68	3.61	2.58	3.25	2.95	8,053	8,184	9,814	0	0	0
TOTAL	29.92	22.11	26.06	22.91	12.75	19.23	Total (feet)			0	0	641
Low	1.41	1.36	1.4				Total (miles)			0.00	0.00	0.12
High	4.99	2.68	3.61									
Average	2.493	1.8425	2.172									
I/I	3.58	1.32	2.21									

Base Year 2017 Base Year I/I: 3.08 MGD

Infiltration/Inflow Summary

Year	I/I	% increase from base I/I	% of avg. design flow
2022	3.58	16	108
2023	1.32	-57	40
2024	2.21	-28	67

Comments: Base year has been changed from 2003 to 2017 based on completion of CSO Reduction Facilities
 ≈6110ft of sewer pressure main was upsized, in 2024, for capacity improvements.


 Tyler White (Apr 15, 2025 10:36 PDT)

WWTP Superintendent

Signature and Title

Port Angeles**Wastewater Treatment Plant****Annual Treatment Facility Review Report (Wasteload Assessment)**

Reporting Year: From: 1/2/2024 To: 12/31/2024

Design Parameters:

Max monthly design flow (dry):	3.3 MGD	Design Population Equivalent:	24800
Max monthly design flow (wet):	10.8 MGD	Present Population Served:	18970
Peak daily design flow:	13.4 MGD	Projected Population growth:	5%
Design Influent BOD loading:	8100 lbs/day	Compliance with effluent permit limitation?	
Design Influent TSS loading:	11750 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)	CBOD (lbs/day)	TSS (lbs/day)
January	3.24	6.78	2365	4741
February	2.96	6.45	2925	4252
March	2.41	3.53	2752	4825
April	1.73	2.11	2539	3224
May	1.62	2.24	2807	4812
June	1.54	2.19	2742	3847
July	1.47	1.72	3102	4268
August	1.48	2.30	2790	3906
September	1.40	2.28	2494	3961
October	1.68	3.65	2517	4625
November	2.92	6.80	2783	5099
December	3.61	10.02	3440	7358

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	October	1.6800	3.3000	50.91%	1.66	1.20%
Wet Weather Flow MGD	December	3.6100	10.8000	33.43%	2.68	34.70%
Peak Flow MGD	December	10.0200	13.4000	74.78%	7.47	34.14%
BOD (lbs/day)	December	3440.0	8100.0	42.47%	3104.00	10.82%
TSS (lbs/day)	December	7358.0	11750.0	62.62%	7470.00	-1.50%

* 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.

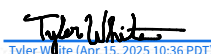
Table 3, Maximum Monthly Average Data for the Last Three Years (For Plotting)

Year	Flow (MGD)	BOD (lbs/day)	TSS
2024	3.61	3440	7358
2023	2.68	3104	7470
2022	4.99	3141	7112

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

>2035

Comments:

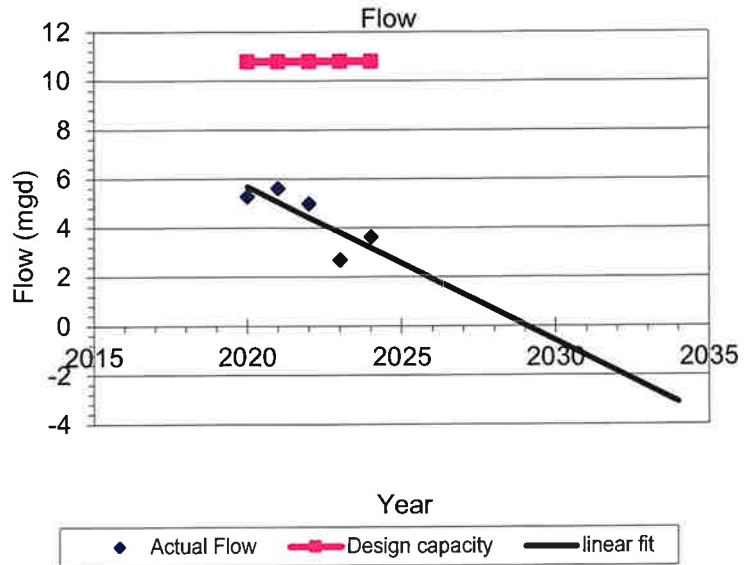


Tyler White (Apr 15, 2025 10:36 PDT)

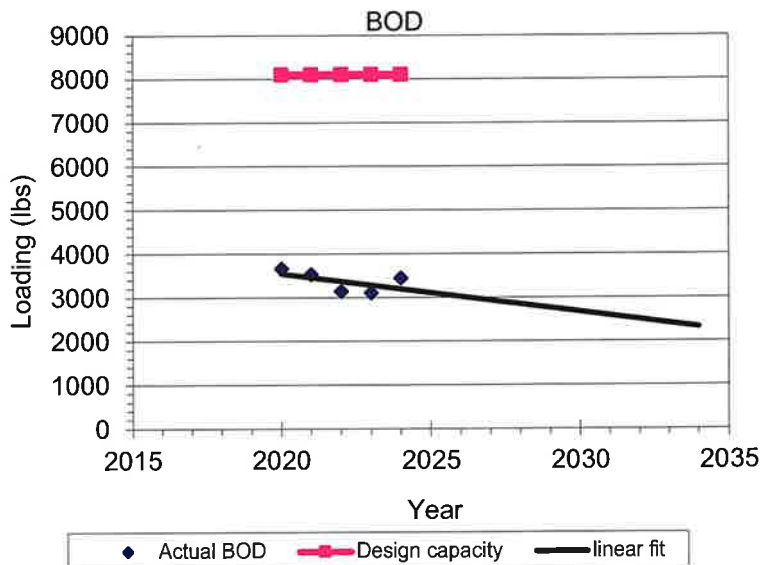
WWTP Superintendent

Signature and Title

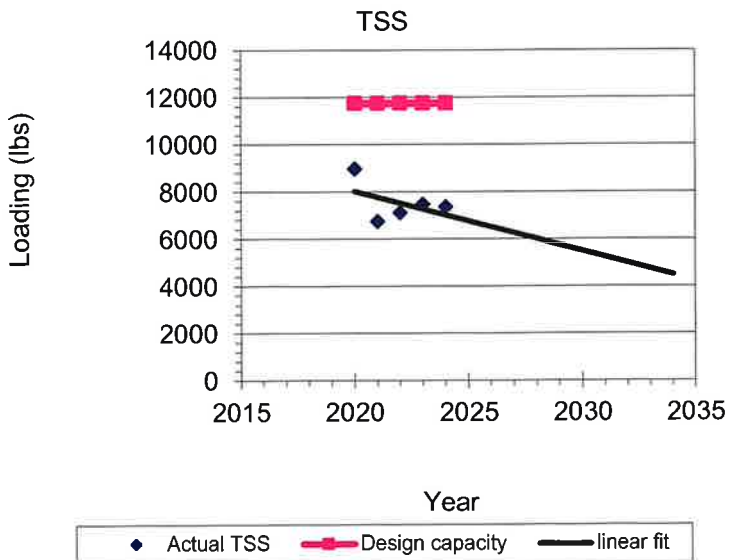
Year	Max month Flow, mgd	Design cap, mgd
2024	3.61	10.8
2023	2.68	10.8
2022	4.99	10.8
2021	5.62	10.8
2020	5.28	10.8



Year	Max month BOD, lbs/day	Design lbs/day
2024	3440	8100
2023	3104	8100
2022	3141	8100
2021	3530	8100
2020	3665	8100



Year	Max month TSS, lbs/day	Design lbs/day
2024	7358	11750
2023	7470	11750
2022	7112	11750
2021	6743	11750
2020	8979	11750








2024 Wasteload_II report

Final Audit Report

2025-04-15

Created:	2025-04-15
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"2024 Wasteload_II report" History

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