

[illegible]

CALENDAR YEAR 2025
WASTEWATER TREATMENT PLANT

	Mean Flow	# Days	A/F	A/F Return
Jan	0.419	31	39.86	38.67
Feb	0.424	28	36.44	35.34
Mar		31	0.00	0.00
Apr		30	0.00	0.00
May		31	0.00	0.00
Jun		30	0.00	0.00
Jul		31	0.00	0.00
Aug		31	0.00	0.00
Sep		30	0.00	0.00
Oct		31	0.00	0.00
Nov		30	0.00	0.00
Dec		31	0.00	0.00
TOTAL	0.843	365	76.30	74.01

Daily mean flow x #days mo X 1,000,000 = gal/mo
divided by 7.48 divided by 43560 = A/F mo

CITY OF NEEDLES
WATER ACCOUNTING
MONTHLY CALCULATION SHEET
CALENDAR YEAR 2025

Diversions												
Pumped from Wells	Pumped (Acre-Feet)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Well #8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Well # 15 (FKA #10)	92.79	77.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Well #11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Well #12	26.95	31.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total	119.74	109.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delivered to Ft. Mojave Indian Tribe (AZ)	11.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delivered to Ft. Mojave Indian Tribe (CA)	33.20	7.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total	44.24	7.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City of Needles' Net Diversion	75.50	101.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total												177.07

Return and Other Credits												
Measured Returns												
Sewer Plant's Rapid Infiltration Ponds ¹	38.67	35.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unmeasured Returns												
Percolation from Golf Course ²	0.17	12.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Percolation from Parks ³	2.15	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Percolation from Large Commercial Users ⁴	0.46	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
System Losses ⁵	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Septic Tank Returns ⁶	4.12	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Unmeasured Returns	6.90	18.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Returns	45.57	54.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total												99.57

Footnotes:

- 1/Calculated as WWTP Total Discharge*0.97.
- 2/Calculated as Monthly Delivery to Golf Course*Efficiency-Monthly ET. Efficiency =0.9
- 3/Calculated as Delivery to Parks, Ballparks, Cemetery*0.40.
- 4/Calculated as 24% of Deliveries to Commercial Accounts*0.10.
- 5/Calculated as City of Needles' Net Diversions-Total Uses.
- 6/Total Annual UMRF from septic tanks = 50, assumes 210 septic units*0.6 AF/yr*0.40 (where 0.40 = UMRF Factor). Annual volume is distributed monthly using a monthly distribution factor.

Consumptive Use												
Diversion	75.50	101.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Measured Returns	38.67	35.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unmeasured Returns	6.90	18.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumptive Use	29.93	47.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total												177.07