Environmental Monitoring and Technical Services
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Horticultural and Industrial Users Recycled Water Quality Report

North City Water Reclamation Plant (NCWRP)

September-2022

	Symbol	Unit of Measurement[4]	Recycled Water Permit Limit[3]	NCWRP Recycled Water
Alkalinity	$CaCO_3$	mg/L	-------	102 #
Hydrogen Ion Activity	pH	Units	6.5 - 8.5	7.02
Electrical Conductivity	ECw	umhos/cm	-------	1500
Total Dissolved Solids	TDS	mg/L	1,200	904
Calcium	Ca	mg/L	-------	76.3
Magnesium	Mg	mg/L	-------	29.4
Potassium	K	mg/L	-------	16.8
Sodium	Na	mg/L	-------	169
Sulfate	SO_4	mg/L	300	200
Iron	Fe	mg/L	0.3	.058
Zinc	Zn	mg/L	-------	.0136
Manganese[5]	Mn	mg/L	0.1	.0571
Boron	B	mg/L	0.75	.341
Ammonia - Nitrogen	NH_3-N	mg/L	-------	ND
Nitrate as N	NO_3-N	mg/L	-------	14.0
Total Nitrogen (Actual)	N	mg/L	-------	15.2
Phosphorus	P	mg/L	-------	1.2
Chloride	Cl	mg/L	300	220
Total Nitrogen (Actual)	N	lbs/ acre ft	-------	41.3
Phosphorus Pentoxide[1]	P_2O_5	lbs/ acre ft	-------	7.5
Potassium Oxide[2]	K_2O	lbs/ acre ft	-------	54.8
Residual Sodium Carbonate	RSC	meq/L	<1.25	-4.19 #
Adjusted Sodium Adsorption Ratio	SAR	Calculated	6	4.21 #

[1]Determined as Phosphorus in the elemental form (P); Phosphorus Pentoxide (P_2O_5) calculated by multiplying P by 2.3.

[2]Determined as Potassium in the elemental form (K); Potassium Oxide (K_2O) calculated by multiply K by 1.2.

[3] SDRWQCB Order #R9-2015-0091

[4]This value is presented in lbs/acre-ft of water applied 1 mg/L = 2.719 lbs/ac ft

[5]Compliance for Manganese is based on the annual average value.

* 1mg/L = 1ppm

-------- = No Permit Limits

Alkalinity, RSC and SAR are non-reportable due to Alkalinity analysis performed out of holding time; however, these values are believed to be representative based on historical data.