

PALO ALTO RECYCLED WATER ANALYSIS 2021

Date	1/6	2/12	3/5	4/2	5/11	6/8	7/7	8/12	9/3	10/4	11/09	12/07	AVE
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
LAB Sample ID	J000026-01	K000228-01	K000297-01	K000417-01	K000641-01	K000795-01	K000941-01	K001131-01	K001251-01	K001407-01	K001608-01	K001778-01	
Alkalinity, ALK	62.6	82	83	79	65	54	54	46	45	43	79	71	64
Boron, B		0.27			0.25			0.26			0.32		0.28
Calcium, Ca	41	47	49	46	39	39	38	38	36	35	48	39	41
Chloride, Cl ⁻	222	272	246	254	236	234	216	232	230	230	238	244	238
Conductivity	1270	1310	1420	1380	1320	1300	1290	1260	1250	1260	1330	1320	1309
Magnesium, Mg	27	30	33	29	25	27	27	24	23	24	31	27	27
Manganese, Mn		42			130			33			40		61
Molybdenum, Mo	2.8	3.4	5.2	6.9	8.6	3.0	3.7	3.2	2.8	3.2	5.6	6.1	4.5
Sodium, Na	140	150	160	150	150	150	150	150	150	140	180	150	152
Nitrate-N (NO ₃ -N)		32			30			29			29		30
Nitrite-N (NO ₂ -N)		<.0033			<0.0033			<0.0033			<0.0033		<.0033
pH	6.7	6.7	6.8	6.7	6.7	6.6	6.6	6.5	6.6	6.5	6.7	6.8	6.7
Phosphate, PO ₄	13.9	13.8	14.6	15.1	14.9	15.4	14.7	15.2	15.6	16.5	14.7	14.3	14.9
Sulfate, SO ₄		81			73			66			71		73
TDS	730	818	830	796	778	748	768	774	754	758	782	758	775
Hardness as CaCO ₃		262			221			198			217		225
Potassium, K		16			17			17			18		17
S.A.R.		4.2			4.5			4.6			5.0		4.6
Salinity	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6
Silica, SiO ₂		14			11			12			16		13

Report Comments

1. All analyte units are in mg/L, except the following;

* Manganese and molybdenum: ug/L

*Salinity: ppt

*Conductivity: μS/cm

*pH: SU

*SAR: ratio of milliequivalents/liter

2. TDS - total dissolved solids

3. S.A.R.- sodium absorption ratio of sodium, calcium, and magnesium

4. Darker shaded cells are DNQ values (estimated results detected below the RL and above the MDL)

5. Lighter shaded cells are ND (non-detect < than MDL) for purposes of calculating AVE the MDL is used.

$$S.A.R. = \frac{Na^{+}}{\sqrt{\frac{1}{2}(Ca^{2+} + Mg^{2+})}}$$