

BROOKSIDE LABORATORIES, INC.

** WATER ANALYSIS REPORT **

Los Robles Greens Golf Course
299 South Moorpark Road
91361

File Number: 80417
Date Received: 12/9/2022
Date Reported: 12/12/2022

Submitted By: Soil and Water Consulting

Lab Number	2685
Sample Location	IRRIGATION WATER
Sample Description	POTABLE

pH	7.72
Hardness (ppm)	167.13
Hardness (grains/gal)	9.77
Conductivity (mmhos/cm)	0.68
Sodium Adsorp. Ratio	2.61
Adjusted SAR	4.25
Adjusted RNa	2.87
pHc	7.77
Residual Sodium Carbonate (RSC)	-0.76

		(ppm)	meq/l	lbs/ac in
Calcium (Ca)		46.04	2.30	10.44
Magnesium (Mg)		12.63	1.04	2.86
Potassium (K)		3.51	0.09	0.80
Sodium (Na)		77.46	3.37	17.57
Iron (Fe)		< 0.10		
Total Alkalinity (CaCO ₃)		128.82		29.22
Carbonate (CO ₃)		0.00		
Bicarbonate (HCO ₃)		157.19	2.58	35.65
Hydroxide (OH)		0.00		
Chloride (Cl)		67.23	1.90	15.25
Sulfur as (S04)		122.61	2.55	27.81
Salt Concentration (TDS)		434.56		98.56
Boron (B)		0.18		0.04

Manganese (Mn)	< 0.020
Copper (Cu)	< 0.020
Zinc (Zn)	< 0.040
Aluminum (Al)	< 0.200

Cation/Anion Ratio	0.96
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NO ₃ -N (ppm)	0.95
Total P (ppm)	< 0.20

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Lab Number	2686
Sample Location	IRRIGATION WATER
Sample Description	WELL

pH	7.34
Hardness (ppm)	860.97
Hardness (grains/gal)	50.35
Conductivity (mmhos/cm)	1.99
Sodium Adsorp. Ratio	1.81
Adjusted SAR	4.43
Adjusted RNa	2.19
pHc	6.95
Residual Sodium Carbonate (RSC)	-9.88

		(ppm)	meq/l	lbs/ac in
Calcium	(Ca)	145.20	7.25	32.93
Magnesium	(Mg)	118.90	9.78	26.97
Potassium	(K)	3.96	0.10	0.90
Sodium	(Na)	121.20	5.27	27.49
Iron	(Fe)	5.03		1.14
Total Alkalinity	(CaCO ₃)	357.39		81.06
Carbonate	(CO ₃)	0.00		
Bicarbonate	(HCO ₃)	436.09	7.15	98.91
Hydroxide	(OH)	0.00		
Chloride	(Cl)	173.78	4.90	39.41
Sulfur as	(S04)	505.50	10.52	114.65
Salt Concentration	(TDS)	1270.40		288.13
Boron	(B)	0.19		0.04
Manganese	(Mn)	0.149		0.034
Copper	(Cu)	< 0.020		
Zinc	(Zn)	< 0.040		
Aluminum	(Al)	< 0.200		

Cation/Anion Ratio	0.99
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NO ₃ -N (ppm)	< 0.10
Total P (ppm)	< 0.20

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Lab Number	2687
Sample Location	IRRIGATION WATER
Sample Description	HOLE #14

pH	7.38
Hardness (ppm)	407.09
Hardness (grains/gal)	23.81
Conductivity (mmhos/cm)	1.23
Sodium Adsorp. Ratio	1.98
Adjusted SAR	4.13
Adjusted RNa	2.36
pHc	7.31
Residual Sodium Carbonate (RSC)	-3.52

		(ppm)	meq/l	lbs/ac in
Calcium (Ca)	82.17	4.10	18.64	
Magnesium (Mg)	48.99	4.03	11.11	
Potassium (K)	3.92	0.10	0.89	
Sodium (Na)	91.78	3.99	20.82	
Iron (Fe)	0.15		0.03	
Total Alkalinity (CaCO ₃)	230.28		52.23	
Carbonate (CO ₃)	0.00			
Bicarbonate (HCO ₃)	280.99	4.61	63.73	
Hydroxide (OH)	0.00			
Chloride (Cl)	115.23	3.25	26.13	
Sulfur as (SO ₄)	258.09	5.37	58.53	
Salt Concentration (TDS)	789.76		179.12	
Boron (B)	0.18		0.04	

Manganese (Mn)	< 0.020	
Copper (Cu)	0.420	0.095
Zinc (Zn)	0.262	0.059
Aluminum (Al)	< 0.200	

Cation/Anion Ratio	0.92
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NO ₃ -N (ppm)	0.80
Total P (ppm)	< 0.20

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Lab Number	2688
Sample Location	IRRIGATION WATER
Sample Description	LAKE

pH	7.88
Hardness (ppm)	373.16
Hardness (grains/gal)	21.82
Conductivity (mmhos/cm)	1.15
Sodium Adsorp. Ratio	1.97
Adjusted SAR	3.92
Adjusted RNa	2.32
pHc	7.41
Residual Sodium Carbonate (RSC)	-3.65

		(ppm)	meq/l	lbs/ac in
Calcium (Ca)		78.74	3.93	17.86
Magnesium (Mg)		42.48	3.49	9.63
Potassium (K)		3.73	0.10	0.85
Sodium (Na)		87.39	3.80	19.82
Iron (Fe)		0.95		0.22
Total Alkalinity (CaCO ₃)		188.67		42.79
Carbonate (CO ₃)		0.00		
Bicarbonate (HCO ₃)		230.22	3.77	52.21
Hydroxide (OH)		0.00		
Chloride (Cl)		96.00	2.71	21.77
Sulfur as (SO ₄)		232.47	4.84	52.72
Salt Concentration (TDS)		732.80		166.20
Boron (B)		0.19		0.04
Manganese (Mn)		0.057		0.013
Copper (Cu)		< 0.020		
Zinc (Zn)		< 0.040		
Aluminum (Al)		< 0.200		

Cation/Anion Ratio	1.00
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NO ₃ -N (ppm)	0.22
Total P (ppm)	< 0.20

Reviewed by:

