

BROOKSIDE LABORATORIES, INC.

** WATER ANALYSIS REPORT **

Western Golf Properties
Lake Forest, CA

File Number: 80044
Date Received: 6/11/2018
Date Reported: 6/12/2018

Submitted By: Soil and Water Consulting

Lab Number	1195
Sample Location	BIRCH HILL GC
Sample Description	IRRIGATION HOLE #12

pH	7.78
Hardness (ppm)	266.72
Hardness (grains/gal)	15.60
Conductivity (mmhos/cm)	1.01
Sodium Adsorp. Ratio	2.64
Adjusted SAR	4.74
Adjusted RNa	3.03
pHc	7.61
Residual Sodium Carbonate (RSC)	-2.64

		(ppm)	meq/l	lbs/ac in
Calcium (Ca)		68.88	3.44	15.62
Magnesium (Mg)		22.97	1.89	5.21
Potassium (K)		5.27	0.13	1.20
Sodium (Na)		99.12	4.31	22.48
Iron (Fe)		< 0.10		
Total Alkalinity (CaCO ₃)		134.47		30.50
Carbonate (CO ₃)		0.00		
Bicarbonate (HCO ₃)		164.08	2.69	37.21
Hydroxide (OH)		0.00		
Chloride (Cl)		94.13	2.65	21.35
Sulfur as (S04)		224.82	4.68	50.99
Salt Concentration (TDS)		644.86		146.25
Boron (B)		0.14		0.03

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

Cation/Anion Ratio	0.97
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NO ₃ -N (ppm)	0.23
Total P (ppm)	< 0.20

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Lab Number	1196
Sample Location	YUKAIPA VALLEYT GC
Sample Description	IRRIGATION HOLE #9

pH	7.35
Hardness (ppm)	173.72
Hardness (grains/gal)	10.16
Conductivity (mmhos/cm)	0.73
Sodium Adsorp. Ratio	2.43
Adjusted SAR	3.63
Adjusted RNa	2.51
pHc	7.91
Residual Sodium Carbonate (RSC)	-1.41

		(ppm)	meq/l	lbs/ac in
Calcium	(Ca)	42.15	2.10	9.56
Magnesium	(Mg)	16.50	1.36	3.74
Potassium	(K)	4.85	0.12	1.10
Sodium	(Na)	73.51	3.20	16.67
Iron	(Fe)	0.31		0.07
Total Alkalinity	(CaCO ₃)	102.34		23.21
Carbonate	(CO ₃)	0.00		
Bicarbonate	(HCO ₃)	124.88	2.05	28.32
Hydroxide	(OH)	0.00		
Chloride	(Cl)	65.19	1.84	14.79
Sulfur as	(S04)	146.49	3.05	33.22
Salt Concentration	(TDS)	464.83		105.42
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	0.98
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NO ₃ -N (ppm)	0.41
Total P (ppm)	0.38

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Lab Number	1197
Sample Location	CAMARILLO
Sample Description	IRRIGATION BIG WELL

pH	7.24
Hardness (ppm)	390.39
Hardness (grains/gal)	22.83
Conductivity (mmhos/cm)	1.03
Sodium Adsorp. Ratio	1.11
Adjusted SAR	2.21
Adjusted RNa	1.25
pHc	7.41
Residual Sodium Carbonate (RSC)	-2.80

		(ppm)	meq/l	lbs/ac in
Calcium	(Ca)	58.44	2.92	13.25
Magnesium	(Mg)	59.35	4.88	13.46
Potassium	(K)	1.58	0.04	0.36
Sodium	(Na)	50.27	2.19	11.40
Iron	(Fe)	< 0.10		
Total Alkalinity	(CaCO3)	249.90		56.68
Carbonate	(CO3)	0.00		
Bicarbonate	(HCO3)	304.93	5.00	69.16
Hydroxide	(OH)	0.00		
Chloride	(Cl)	121.36	3.42	27.52
Sulfur as	(S04)	116.37	2.42	26.39
Salt Concentration	(TDS)	658.05		149.25
Boron	(B)	0.09		0.02

Manganese	(Mn)	0.104		0.024
Copper	(Cu)	< 0.020		
Zinc	(Zn)	< 0.040		
Aluminum	(Al)	< 0.200		

Cation/Anion Ratio	0.92
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NO3-N (ppm)	1.88
Total P (ppm)	< 0.20

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Lab Number	1198
Sample Location	CAMARILLO
Sample Description	IRRIGATION POND

pH	7.26
Hardness (ppm)	412.37
Hardness (grains/gal)	24.12
Conductivity (mmhos/cm)	1.66
Sodium Adsorp. Ratio	3.88
Adjusted SAR	8.26
Adjusted RNa	4.61
pHc	7.27
Residual Sodium Carbonate (RSC)	-2.01

		(ppm)	meq/l	lbs/ac in
Calcium	(Ca)	72.11	3.60	16.35
Magnesium	(Mg)	56.08	4.61	12.72
Potassium	(K)	4.06	0.10	0.92
Sodium	(Na)	181.00	7.87	41.05
Iron	(Fe)	0.83		0.19
Total Alkalinity	(CaCO ₃)	310.00		70.31
Carbonate	(CO ₃)	0.00		
Bicarbonate	(HCO ₃)	378.26	6.20	85.79
Hydroxide	(OH)	0.00		
Chloride	(Cl)	217.36	6.13	49.30
Sulfur as	(S ₀₄)	226.77	4.72	51.43
Salt Concentration	(TDS)	1061.57		240.76
Boron	(B)	0.42		0.10

Manganese	(Mn)	0.513		0.116
Copper	(Cu)	< 0.020		
Zinc	(Zn)	< 0.040		
Aluminum	(Al)	0.361		0.082

Cation/Anion Ratio	0.95
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NO ₃ -N (ppm)	0.52
Total P (ppm)	0.52

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