



SOIL AND WATER CONSULTING

Data Collection Report

Spring 2021

Date of Collection: 3/15/21

Client: Seven Oaks Country Club



Testing Results

<u>3/15/21</u>	
Humidity/Air Temperature	rain/50°
Greens Temperature	(avg)51.5°
Fairway Temperature	(avg)54°

WATER	Acceptable Range For Water Sample	Irrigation Pond 3/15/21
pH	6.3-6.5	7.86
EC	<2.25 mmhos/cm	0.22
Sodium		21.23
Calcium	20 - 60 ppm	24.36
Magnesium	10 - 25 ppm	0.52
Potassium	5 - 20 ppm	2.67
Sulfur	30 - 90 ppm	15.21
Bicarbonate	<120 ppm	118.07
Boron	<0.67 ppm	0.13

BROOKSIDE LABORATORIES, INC.

** LIMING MATERIAL REPORT **

Seven Oaks CC
Bakersfield, CA

File Number: 73606
Date Received: 3/19/2021
Date Reported: 3/22/2021

Submitted By: Soil and Water Consulting

Lab Number L67
Location GYPSUM
Description

PERCENTAGES (%) As Is

Calcium (Ca) 13.870
as Ca Oxide 19.407
as Ca Carbonate 34.638

Magnesium (Mg) 0.588
as Mg Oxide 0.975
as Mg Carbonate 2.039
as CaCO3 equivalent 2.420

Total Neutralizing Power (C.C.E.)
in terms of CaCO3 < 1.00

Sodium (Na) 0.081
Potassium (K) 0.139
Sulfur (S) 9.905

PARTS PER MILLION (ppm)

Iron (Fe) 9190.00
Manganese (Mn) 113.00
Copper (Cu) < 10.00
Zinc (Zn) 30.25
Boron (B) 37.80

FINESS TEST Sieve Number % Passing

8 95.0
20 86.9
60 67.5
100 56.3

E.C.C. %

pH 8.01

Reviewed by:

[Signature]

ROUGH	Acceptable Range For Alkaline Soils Sample	Oaks 1/2 3/15/21
Organic Matter (Humus)	2 - 3%	4.48
Sulfur	12 - 16 ppm	65.00
Olsen - Phosphorus	13 - 20 ppm	38.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	2,956.00
Magnesium	>7% base saturation or at least 200 lbs/acre	7.26%/202
Potassium - TEC of 0 - 35	100 ppm	302.00
Manganese	>50 ppm	16.00

FAIRWAYS	Acceptable Range For Alkaline Soils Sample	Lakes 4 3/15/21	Oaks 5 3/15/21
Organic Matter (Humus)	2 - 3%	2.98	3.24
Sulfur	12 - 16 ppm	43.00	40.00
Olsen - Phosphorus	13 - 20 ppm	23.00	17.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	2,222.00	2,408.00
Magnesium	>7% base saturation or at least 200 lbs/acre	12.78%/266	11.55%/232
Potassium - TEC of 0 - 35	100 ppm	300.00	189.00
Manganese	>50 ppm	14.00	14.00

GREENS	Acceptable Range For Alkaline Soils Sample	Lakes 1 3/15/21	Oaks 6 3/15/21	Island 4 3/15/21
Organic Matter (Humus)	2 - 3%	1.04	1.04	0.57
Sulfur	12 - 16 ppm	71.00	76.00	25.00
Olsen - Phosphorus	13 - 20 ppm	13.00	28.00	18.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	2,542.00	1,712.00	1,066.00
Magnesium	>7% base saturation or at least 200 lbs/acre	10.99%/226	12.95%/184	15.45%/142
Potassium - TEC of 0 - 35	150 ppm	189.00	172.00	116.00
Manganese	>50 ppm	54.00	85.00	49.00

ROUGH	Acceptable Range For Saturated Paste Sample	Oaks 1/2 3/15/21
Nitrate - Ryegrass	5 - 10 ppm	16.70
Phosphorus	2 - 10 ppm	2.14
Potassium	40 - 100 ppm	51.62
Calcium	60 - 200 ppm	75.89
Magnesium	20 - 70 ppm	9.67
Sodium	0 - 30 ppm	76.97
Soluble Salts	<1,920 ppm	515.00
Bicarbonate	<60 ppm	49.03
Chloride	<1,000 ppm	47.00
SAR	<4%	2.21

FAIRWAYS	Acceptable Range For Saturated Paste Sample	Lakes 4 3/15/21	Oaks 5 3/15/21
Nitrate - Ryegrass	10-15 ppm	<0.5	<0.5
Phosphorus	2 - 10 ppm	0.81	0.70
Potassium	40 - 100 ppm	43.36	33.27
Calcium	60 - 200 ppm	36.03	41.00
Magnesium	20 - 70 ppm	9.04	9.00
Sodium	0 - 30 ppm	47.10	38.12
Soluble Salts	<1,920 ppm	327.00	339.00
Bicarbonate	<60 ppm	86.57	75.90
Chloride	<1,000 ppm	22.00	21.00
SAR	<4%	1.82	1.40

GREENS	Acceptable Range For Saturated Paste Sample	Lakes 1 3/15/21	Oaks 6 3/15/21	Island 4 3/15/21
Nitrate - Dominator Bentgrass	1-3 ppm	<0.5	<0.5	<0.5
Phosphorus	2 - 7 ppm	1.82	4.18	3.45
Potassium	25-40 ppm	24.49	58.10	28.52
Calcium	50- 75 ppm	66.67	75.84	22.23
Magnesium	15-30 ppm	14.28	17.71	6.33
Sodium	0 - 30 ppm	47.84	44.68	20.77
Soluble Salts	<1,000 ppm	444.00	511.00	209.00
Bicarbonate	<60 ppm	70.21	64.39	60.57
Chloride	<200 ppm	11.00	14.00	7.00
SAR	<4%	1.39	1.20	1.00