



# SOIL AND WATER CONSULTING

## Data Collection Report

Summer 2022

Date of Collection: 8/10/22

Client: Diamante Cabo San Lucas



# Testing Results

	<b><u>8/10/22</u></b>
Humidity/Air Temperature	85%/85°
Fairways Soil Temperature	(avg)85.2°

<b>WATER</b>	<b>Acceptable Range For Water Sample</b>	<b>Dunes Hole #1 <u>8/10/22</u></b>	<b>El Cardonal Hole #10 <u>8/10/22</u></b>
EC	<2.25 mmhos/cm	1.73	1.49
Sodium	0-100 ppm	299.50	245.60
Nitrate	0-3 ppm	3.24	5.57
Calcium	20 - 60 ppm	35.91	27.39
Magnesium	10 - 25 ppm	11.03	9.06
Potassium	5 - 20 ppm	38.35	31.06
Sulfur	30 - 90 ppm	139.50	109.50
Bicarbonate	<120 ppm	233.00	160.66
Boron	<0.67 ppm	1.19	1.23
Chloride	<177 ppm	339.22	299.40

<b>DUNES COURSE FAIRWAYS</b>	<b>Acceptable Range For Tissue Sample</b>	<b>1,8,9 (avg) <u>8/10/22</u></b>
Nitrogen	2.0%-2.8%	4.42
Phosphorus	0.3%-0.6%	0.55
Potassium	2.0%-4.0%	3.85
Calcium	0.2%-1.5%	0.32
Magnesium	0.2%-0.6%	0.25
Sulfur	0.2%-0.6%	0.86
Boron	5-60 ppm	22.20
Iron	50-500 ppm	375.00
Manganese	50-300 ppm	33.53
Copper	5-50 ppm	11.50
Zinc	20-250 ppm	53.37
Aluminum	n/r	343.33
Sodium	n/r	4,366.67

<b>EL CARDONAL COURSE FAIRWAYS</b>	<b>Acceptable Range For Tissue Sample</b>	<b>1 <u>8/10/22</u></b>
Nitrogen	2.0%-2.8%	2.11
Phosphorus	0.3%-0.6%	0.39
Potassium	2.0%-4.0%	1.74
Calcium	0.2%-1.5%	0.64
Magnesium	0.2%-0.6%	0.21
Sulfur	0.2%-0.6%	0.53
Boron	5-60 ppm	42.40
Iron	50-500 ppm	2,080.00
Manganese	50-300 ppm	92.10
Copper	5-50 ppm	13.70
Zinc	20-250 ppm	82.70
Aluminum	n/r	1,870.00
Sodium	n/r	5,700.00

# Testing Results

<b>DUNES FAIRWAY</b>	<b>Acceptable Range For Alkaline Soils Sample</b>	<b>9 8/10/22</b>
Organic Matter (Humus)	2 - 3%	1.65
Sulfur	12 - 16 ppm	43.00
Olsen - Phosphorus	13 - 20 ppm	27.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	1,776.00
Magnesium	>7% base saturation or at least 200 lbs/acre	14.77%/268
Potassium - TEC of 0 - 35	100 ppm	217.00
Manganese	>50 ppm	22.00

<b>EL CARDONAL FAIRWAY</b>	<b>Acceptable Range For Alkaline Soils Sample</b>	<b>1 8/10/22</b>
Organic Matter (Humus)	2 - 3%	1.29
Sulfur	12 - 16 ppm	26.00
Olsen - Phosphorus	13 - 20 ppm	19.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	958.00
Magnesium	>7% base saturation or at least 200 lbs/acre	13.86%/152
Potassium - TEC of 0 - 35	100 ppm	152.00
Manganese	>50 ppm	9.00

	Dunes Course Fairway #9 0-2"	Dunes Course Fairway #9 Below 2 "	El Cardonal Course Fairway #1 0-3"	El Cardonal Course Fairway #1 Below 3"	Greens Topdressing 8/10/2022
Clay	4.70	3.90	6.40	1.90	0.30
Silt	4.70	2.10	1.40	0.70	0.40
Sand	89.10	93.90	89.80	93.30	99.30
Gravel	1.50	0.10	2.40	4.10	0.00
Organic Material	5.75	0.44	2.81	0.390	<0.10
<i>Sieve #:</i>					
Fine Gravel 10	1.50	0.10	2.40	4.10	0.00
Very Coarse Sand 18	1.40	0.30	2.50	3.00	1.30
Coarse Sand 35	12.10	5.40	23.10	22.90	38.60
Medium Sand 60	55.80	58.10	48.40	47.80	41.20
Fine Sand 100	13.60	22.80	11.90	15.60	14.30
Very Fine Sand 140	3.50	4.50	2.50	2.60	2.90
Very Fine Sand 270	2.60	2.80	1.30	1.50	1.00
Infiltration Rate in/hr	n/r	0.3"	n/r	0.9"	n/r



El Cardonal Course Fairway #1



Dunes Course Fairway #9