



SOIL AND WATER CONSULTING

Data Collection Report

Summer 2018

Date of Collection: 6/6/18

Client: Silver Lakes Sports Complex



Testing Results

	<u>6/6/18</u>
Humidity/Air Temperature	50%/80°
Field Temperature	86.6°

WATER	Acceptable Range For Water Sample	Irrigation Water 6/20/17	Stadium 6/6/18
pH	6.50	6.32	7.62
EC	<2.25 mmhos/cm	1.08	0.92
Sodium		114.70	106.30
Calcium	20 - 60 ppm	82.01	42.36
Magnesium	10 - 25 ppm	13.67	15.73
Potassium	5 - 20 ppm	16.88	12.68
Phosphorus	0.1 - 0.4 ppm	1.83	n/t
Nitrate	5 - 50 ppm	<0.10	n/t
Sulfur	30 - 90 ppm	95.55	109.29
Bicarbonate	<120 ppm	311.46	163.35
Boron	<0.67 ppm	0.26	0.27
Chloride	<177 ppm	130.04	147.23



FIELD	Acceptable Range For Tissue Sample	5,6,9,10 6/6/18
Nitrogen	3.34%-5.10%	3.58
Phosphorus	0.35% - 0.55%	0.34
Potassium	2.0% - 3.42%	1.27
Calcium	0.25%-0.5%	0.45
Magnesium	0.16%-0.32%	0.14
Sodium	229-1107 ppm	3,090.00

FIELD	Acceptable Range For Tissue Sample	12,16,17 6/6/18
Nitrogen	3.34%-5.10%	2.71
Phosphorus	0.35% - 0.55%	0.36
Potassium	2.0% - 3.42%	1.33
Calcium	0.25%-0.5%	0.62
Magnesium	0.16%-0.32%	0.15
Sodium	229-1107 ppm	2,750.00

<i>FIELDS</i>	Acceptable Range For Alkaline Soils Sample	The Six Plus 6/6/18	The Stadium 6/6/18	9-13 6/6/18	The Quad 6/6/18	The Field House 6/6/18
Organic Matter (Humus)	2 - 3%	1.39	2.27	1.38	2.61	2.15
Sulfur	12 - 16 ppm	74.00	210.00	77.00	105.00	420.00
Olsen - Phosphorus	13 - 20 ppm	17.00	91.00	10.00	9.00	45.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	4,614.00	5,540.00	4,900.00	4,480.00	6,332.00
Magnesium	>7% base saturation or at least 200 lbs/acre	9.14%/314	10.32%/450	9.38%/342	19.63%/772	16.25%/852
Potassium - TEC of 0 - 35	150 ppm	201.00	352.00	152.00	127.00	133.00
Manganese	>50 ppm	40.00	40.00	59.00	78.00	60.00

<i>FIELDS</i>	Acceptable Range For Saturated Paste Sample	The Six Plus 6/6/18	The Stadium 6/6/18	9-13 6/6/18	The Quad 6/6/18	The Field House 6/6/18
Nitrate - Bandera Bermuda	10 -15 ppm	<0.5	<0.5	<0.5	<0.5	<0.5
Phosphorus	2 - 10 ppm	0.66	1.34	0.41	0.59	0.62
Potassium	40 - 100 ppm	58.33	112.33	46.03	16.15	24.92
Calcium	60 - 200 ppm	103.25	305.74	171.29	155.48	499.33
Magnesium	20 - 70 ppm	22.83	65.36	36.17	40.00	146.71
Sodium	0 - 30 ppm	151.89	279.81	197.19	213.92	395.40
Soluble Salts	<1,920 ppm	883.00	1,758.00	1,116.00	1,086.00	2,389.00
Bicarbonate	<60 ppm	251.36	280.65	322.13	297.73	266.00
Chloride	<1,000 ppm	147.00	258.00	175.00	194.00	342.00
SAR	<4%	3.52	3.79	3.57	3.96	4.00