



SOIL AND WATER CONSULTING

Data Collection Report

Spring 2018

Date of Collection: 3/12/18

Client: Silver Lakes Sports Complex



Testing Results

	<u>3/9/17</u>	<u>3/12/01</u>
Humidity/Air Temperature	51%/85°	75%/65°
Field Temperature	65°	59°

WATER	Acceptable Range For Water Sample	Stadium <u>3/9/17</u>	New Well <u>3/12/18</u>
pH	6.50	7.50	7.59
EC	<2.25 mmhos/cm	1.00	1.07
Sodium		87.89	101.80
Calcium	20 - 60 ppm	84.21	89.03
Magnesium	10 - 25 ppm	15.94	15.46
Potassium	5 - 20 ppm	6.11	11.64
Phosphorus	0.1 - 0.4 ppm	0.23	n/t
Nitrate	5 - 50 ppm	2.27	n/t
Sulfur	30 - 90 ppm	160.50	105.63
Bicarbonate	<120 ppm	198.70	289.68
Boron	<0.67 ppm	0.22	0.28
Chloride	<177 ppm	117.78	124.76

FIELDS	Acceptable Range For Alkaline Soils Sample	The Six Plus 3/9/17	The Six Plus 3/12/18	The Stadium 3/9/17	The Stadium 3/12/18	9-13 3/9/17	9-13 3/12/18	The Quad 3/9/17	The Quad 3/12/18	The Field House 3/12/18
Organic Matter (Humus)	2 - 3%	0.78	0.92	0.76	1.56	0.74	1.18	1.63	2.05	1.97
Sulfur	12 - 16 ppm	38.00	54.00	66.00	127.00	48.00	76.00	59.00	84.00	233.00
Olsen - Phosphorus	13 - 20 ppm	12.00	7.00	35.00	77.00	19.00	4.00	18.00	12.00	52.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	2,944.00	3,606.00	2,841.00	4,188.00	2,835.00	4,380.00	3,423.00	4,206.00	5,012.00
Magnesium	>7% base saturation or at least 200 lbs/acre	10.11%/217	9.30%/248	11.67%/251	10.00%/322	10.51%/219	9.87%/326	22.58%/692	19.80%/734	16.91%/698
Potassium - TEC of 0 - 35	150 ppm	136.00	162.00	152.00	218.00	110.00	137.00	146.00	162.00	95.00
Manganese	>50 ppm	n/a	33.00	n/a	39.00	n/a	51.00	n/a	71.00	65.00

FIELDS	Acceptable Range For Saturated Paste Sample	The Six Plus 3/9/17	The Six Plus 3/12/18	The Stadium 3/9/17	The Stadium 3/12/18	9-13 3/9/17	9-13 3/12/18	The Quad 3/9/17	The Quad 3/12/18	The Field House 3/12/18
Nitrate - Bandera Bermuda	10 -15 ppm	30.40	0.80	9.70	11.60	<0.5	9.50	<0.5	<0.5	87.10
Phosphorus	2 - 10 ppm	1.35	0.72	1.86	2.77	1.45	0.98	0.82	1.68	1.41
Potassium	40 - 100 ppm	44.17	78.67	41.86	99.71	32.14	62.47	17.55	20.91	18.82
Calcium	60 - 200 ppm	140.03	159.45	123.40	233.67	141.98	221.29	123.89	151.74	410.66
Magnesium	20 - 70 ppm	28.48	34.38	24.42	49.21	29.12	49.26	37.28	40.99	104.43
Sodium	0 - 30 ppm	46.08	118.22	53.76	173.80	66.03	173.22	117.34	226.66	199.12
Soluble Salts	<1,920 ppm	769.00	987.00	693.00	1,279.00	753.00	1,243.00	855.00	1,074.00	2,176.00
Bicarbonate	<60 ppm	202.55	229.40	263.56	236.72	295.29	258.68	222.08	224.52	253.80
Chloride	<1,000 ppm	70.00	80.00	68.00	136.00	71.00	133.00	99.00	120.00	168.00
SAR	<4%	0.93	2.21	1.16	2.70	1.32	2.74	2.37	4.21	2.27