



SOIL AND WATER CONSULTING

Data Collection Report

Spring 2023

Date of Collection: 3/13/23

Client: Parks Department Fields



SOUTHSIDE PARK	Acceptable Range For Alkaline Soils Sample	Football 3/22/21	Football 3/16/22	Football 3/13/23
Organic Matter (Humus)	2 - 3%	4.37	5.16	5.47
Sulfur	12 - 16 ppm	40.00	25.00	13.00
Olsen - Phosphorus	13 - 20 ppm	60.00	67.00	85.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	5,434.00	4,802.00	5,348.00
Magnesium	>7% base saturation or at least 200 lbs/acre	27.45%/1,452	27.18%/1270	26.80%/1,352
Potassium - TEC of 0 - 35	100 ppm	454.00	423.00	403.00
Manganese	>50 ppm	51.00	48.00	52.00

CENTENNIAL PARK SOCCER	Acceptable Range For Alkaline Soils Sample	South 3/22/21	North 3/22/21	South 3/16/22	North 3/16/22	South 3/13/23	North 3/13/23
Organic Matter (Humus)	2 - 3%	5.10	5.70	6.24	4.46	5.87	5.51
Sulfur	12 - 16 ppm	32.00	46.00	15.00	14.00	9.00	7.00
Olsen - Phosphorus	13 - 20 ppm	93.00	56.00	49.00	24.00	44.00	33.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	5,670.00	4,832.00	4,094.00	4,500.00	4,548.00	4,336.00
Magnesium	>7% base saturation or at least 200 lbs/acre	29.79%/1,790	30.91%/1,650	33.72%/1590	30.08%/1436	29.92%/1394	28.76%/1,234
Potassium - TEC of 0 - 35	100 ppm	707.00	686.00	590.00	575.00	477.00	396.00
Manganese	>50 ppm	48.00	46.00	54.00	92.00	49.00	50.00

SOUTHSIDE PARK	Acceptable Range For Saturated Paste Sample	Football 3/22/21	Football 3/16/22	Football 3/13/23
Nitrate - Cool season mix	5 - 10 ppm	4.40	<0.5	<0.5
Phosphorus	2 - 10 ppm	5.00	5.44	6.76
Potassium	40 - 100 ppm	26.18	30.49	52.25
Calcium	60 - 200 ppm	58.02	75.69	114.47
Magnesium	20 - 70 ppm	28.61	45.20	61.40
Sodium	0 - 30 ppm	60.97	60.22	48.96
Soluble Salts	<1,920 ppm	482.00	522.00	671.00
Bicarbonate	<60 ppm	150.66	242.40	483.31
Chloride	<1,000 ppm	79.00	67.00	64.00
SAR	<4%	1.64	1.35	0.92

CENTENNIAL PARK SOCCER	Acceptable Range For Saturated Paste Sample	South 3/22/21	North 3/22/21	South 3/16/22	North 3/16/22	South 3/13/23	North 3/13/23
Nitrate - Cool season mix	5 - 10 ppm	<0.5	12.10	<0.5	<0.5	<0.5	<0.5
Phosphorus	2 - 10 ppm	7.42	9.55	8.39	6.28	9.83	11.97
Potassium	40 - 100 ppm	28.78	61.71	44.00	43.39	46.04	68.64
Calcium	60 - 200 ppm	43.45	68.07	49.21	63.75	97.86	107.33
Magnesium	20 - 70 ppm	25.36	42.77	30.15	38.61	53.56	66.70
Sodium	0 - 30 ppm	53.32	97.94	55.56	62.09	40.60	45.53
Soluble Salts	<1,920 ppm	394.00	694.00	422.00	529.00	563.00	704.00
Bicarbonate	<60 ppm	120.13	158.99	205.59	167.56	403.68	470.46
Chloride	<1,000 ppm	55.00	149.00	51.00	65.00	44.00	60.00
SAR	<4%	1.59	2.29	1.54	1.51	0.82	0.85