

Date: 5/5/2017
Report Number: E61010
Grower: Anyone who waters
Client: Planet Turf
Well ID: 16 Creek
Description: High Salinity, Low Sodium
Sampler: Planet Turf
Date Sampled: 4/27/2017
Lab Number:

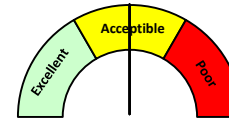


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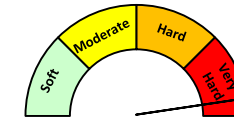
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Irrigation Water Analysis Report

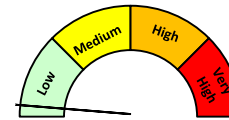
Parameter	Unit			
pH	8.23			
Electrical Conductivity	0.788	mS/cm		
Total Dissolved Salts (From EC)	504.32	ppm		
Sodium Adsorption Ratio (SAR)	0.93			
Hardness	351.66	ppm in CaCO3		
Alkalinity	210.00	ppm as CaCO3		
Residual Sodium Carbonate (RSC)	-2.84	meq/L		
Catio/Anion Ratio	0.93			
Cations	ppm	meq/L	lbs/acres-ft	% of total
Calcium	83.10	4.16	226.03	46.6%
Magnesium	35.10	2.89	95.47	32.4%
Potassium	5.09	0.13	13.84	1.5%
Sodium	40.20	1.75	109.34	19.6%
Total Cations		8.92		
Anions	ppm	meq/L	lbs/acres-ft	% of total
Bicarbonate	210.00	4.20	571.20	43.8%
Carbonate	0.00	0.00	0.00	0.0%
Chloride	51.20	1.44	139.26	15.1%
Sulfate (SO4-S)	164.00	3.41	446.08	35.6%
Nitrate (NO3-N)	7.28	0.52	19.80	5.4%
Total Anions		9.58		
Other				
Phosphorus	0.065			
Total Nitrogen	7.62			



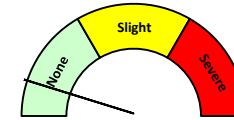
Total Salts



Hardness

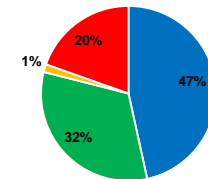


SAR



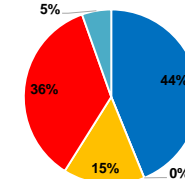
Bicarbonate Hazard

■ Calcium ■ Magnesium ■ Potassium ■ Sodium



Cation Percentage

■ Bicarbonate ■ Carbonate ■ Chloride
■ Sulfate (SO4-S) ■ Nitrate (NO3-N)



Anion Percentage

Date: 5/5/2017
Report Number: E61009
Grower: Meadow Springs GC
Client: Planet Turf
Well ID: 16 Ground Water Pipe
Description: Medium Salinity, Low Sodium
Sampler: Jared Whitaker
Date Sampled: 4/27/2017
Lab Number: E61009

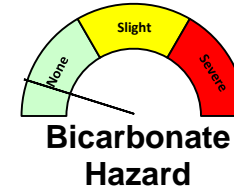
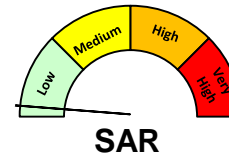
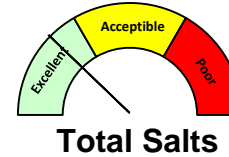


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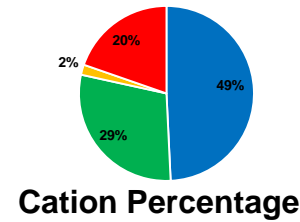
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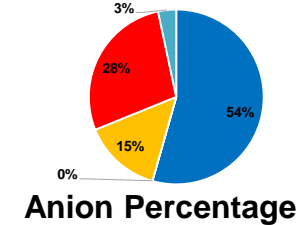
Parameter	Unit			
pH	7.82			
Electrical Conductivity	0.692	mS/cm		
Total Dissolved Salts (From EC)	442.88	ppm		
Sodium Adsorption Ratio (SAR)	0.88			
Hardness	304.66	ppm in CaCO ₃		
Alkalinity	208.00	ppm as CaCO ₃		
Residual Sodium Carbonate (RSC)	-1.94	meq/L		
Catio/Anion Ratio	1.02			
Cations	ppm	meq/L	lbs/acres-ft	% of total
Calcium	76.60	3.83	208.35	49.2%
Magnesium	27.60	2.27	75.07	29.2%
Potassium	5.70	0.15	15.50	1.9%
Sodium	35.20	1.53	95.74	19.7%
Total Cations		7.78		
Anions	ppm	meq/L	lbs/acres-ft	% of total
Bicarbonate	208.00	4.16	565.76	54.4%
Carbonate	0.00	0.00	0.00	0.0%
Chloride	39.20	1.11	106.62	14.5%
Sulfate (SO ₄ -S)	102.00	2.12	277.44	27.8%
Nitrate (NO ₃ -N)	3.58	0.26	9.74	3.3%
Total Anions		7.65		
Other				
Phosphorus	0.075			
Total Nitrogen	3.98			



■ Calcium ■ Magnesium ■ Potassium ■ Sodium



■ Bicarbonate ■ Carbonate ■ Chloride
■ Sulfate (SO₄-S) ■ Nitrate (NO₃-N)



Date: 5/5/2017
Report Number: E61008
Grower: Meadow Springs GC
Client: Planet Turf
Well ID: Irr. Sump
Description: Medium Salinity, Low Sodium
Sampler: Jared Whitaker
Date Sampled: 4/27/2017
Lab Number: E61008

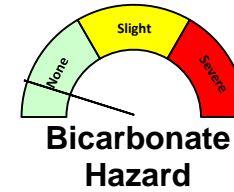
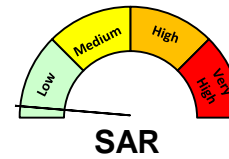
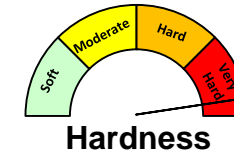
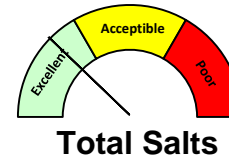


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Parameter	Unit			
pH	7.96			
Electrical Conductivity	0.737	mS/cm		
Total Dissolved Salts (From EC)	471.68	ppm		
Sodium Adsorption Ratio (SAR)	0.94			
Hardness	324.37	ppm in CaCO3		
Alkalinity	190.00	ppm as CaCO3		
Residual Sodium Carbonate (RSC)	-2.70	meq/L		
Catio/Anion Ratio	1.04			
Cations	ppm	meq/L	lbs/acres-ft	% of total
Calcium	75.30	3.77	204.82	45.2%
Magnesium	33.20	2.73	90.30	32.8%
Potassium	5.33	0.14	14.50	1.6%
Sodium	39.00	1.70	106.08	20.4%
Total Cations		8.33		
Anions	ppm	meq/L	lbs/acres-ft	% of total
Bicarbonate	190.00	3.80	516.80	47.3%
Carbonate	0.00	0.00	0.00	0.0%
Chloride	41.70	1.18	113.42	14.6%
Sulfate (SO4-S)	131.00	2.73	356.32	33.9%
Nitrate (NO3-N)	4.70	0.34	12.78	4.2%
Total Anions		8.04		
Other				
Phosphorus	0.077			
Total Nitrogen	5.35			



■ Calcium ■ Magnesium ■ Potassium ■ Sodium

■ Bicarbonate ■ Carbonate ■ Chloride
■ Sulfate (SO4-S) ■ Nitrate (NO3-N)

