



**Turf & Soil Diagnostics**

**MATERIALS TEST REPORT FOR**  
Bulldog Field Equipment

**Report to:** Bulldog Field Equipment  
Chad Kropff  
4250 Longwood Ave.  
Roanoke, VA 24017

**Date Received** Aug-13-2020  
**Date Reported** Aug-24-2020  
**Condition of Sample** Normal

**Particle Size Evaluation\***

Lab ID#	Sample Name	% Sand 2.0 - 0.05 mm	% Silt 0.05-0.002mm	% Clay < 0.002mm	Silt : Clay Ratio	USDA Textural Classification	Dry Color
46190-2	Infield Mix	71.4	11.3	17.3	0.7	Sandy Loam	10YR 4/4 Dark Yellowish Brown
Ballfield Guidelines**		60 - 75	-	≥ 13	≤ 1	-	-

\*\*Guidelines developed by Dr. Norm Hummel

Lab ID#	Sample Name	% Passing mm (US sieve)							
		Gravel 6.3 (1/4")	Gravel 4.0 (5)	Gravel 2.0 (10)	V. Coarse 1.0 (18)	Coarse 0.5 (35)	Medium 0.25 (60)	Fine 0.15 (100)	V. Fine 0.05 (270)
46190-2	Infield Mix	100.0	100.0	99.6	97.6	85.9	46.6	31.3	28.7
ASTM F2107 Standard Guide for Skinned Areas				85 - 100	62 - 90	48 - 84	38 - 71	27 - 60	19 - 40

Lab ID#	Sample Name	% Retained***							
		Gravel 6.3 (1/4")	Gravel 4.0 (5)	Gravel 2.0 (10)	V. Coarse 1.0 (18)	Coarse 0.50 (35)	Medium 0.25 (60)	Fine 0.10 (140)	V. Fine 0.05 (270)
46190-2	Infield Mix	0.0	0.0	0.4	2.0	11.7	39.5	16.9	1.1
Ballfield Guidelines**		-	0	≤ 3	-	> 50% of total sand		-	-

\*ASTM F1632 Method B

\*\*\*Data reported using USDA definitions of soil classification

Samples were tested as received and comments pertain only to the samples shown.

This report may not be reproduced in part, but only in full.

Samples were received with a transmittal letter.

**Duane Otto**  
Digitally signed by Duane Otto  
Date: 2020.08.24 23:26:43 -04'00'

Reviewed by \_\_\_\_\_



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**Standard Proctor\* and ASTM C29 (Loose Density)\*\***

Lab ID#	Sample Name	Standard Optimum Water Content %	Standard Maximum Dry Unit Weight		ASTM C29 (Loose) Dry Unit Weight	
			lb/ft3	g/cc	lb/ft3	g/cc
46190-2	Infield Mix	14.6	117.0	1.88	81.1	1.30

\*ASTM D698 (Method A) with automatic rammer and moist preparation.

\*\*ASTM C29

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Sample condition upon receipt was normal.  
Samples were received with a transmittal letter.

Reviewed by \_\_\_\_\_  
Digitally signed by Duane Otto  
Date: 2020.08.24 23:26:52 -04'00'



**Turf & Soil Diagnostics**

**Standard Proctor (ASTM D698)  
Bulldog Field Equipment  
Lab ID 346190  
CU Soil**

