G-MAX TEST REPORT

CLIENTS:

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Department of General Services
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REPORT NUMBER
2019

Date 06-18-2019

DESCRIPTION

An independent analysis of synthetic turf relative to G-max was requested by the client. The Test was performed by a Licensed Professional Engineer at the below referenced location with ASTM certified and calibrated equipment via Triax "A" Missile SN30-9887 1683. The Test Methods are as follows;

Method A - **ASTM F 355**, *Test Method for Shock-Absorbing Properties of Playing Surface Systems and Materials.*
ASTM F 1936-10, *Standard Specification for Shock-Absorbing Properties of North American Football Field Playing Systems as Measured on the Field, (G-max)*

The particulars of this on-site analysis are described below.

TEST INFORMATION

Project Name – Emery Recreation Center
Site address - 5701 Georgia Ave NW, Washington, DC
Test Type - Onsite G-max Test - 10 Locations
Field Type - Football (Sand/Rubber)

Test Date -	06-18-2019
Time of Test -	9:45am
Weather -	Sun 78°F
Installation Date -	2009
Field Temp -	93°F Average

TEST RESULTS

The following test results indicate G-max values for ten individual locations with three separate tests performed at each location. A table has been provided indicating the values associated with each test and a location map showing the ten individual tests at designated and described locations. ***The test results reported herein reflects the conditions of the tested field at the time and temperatures noted.***

TEST CONCLUSION

The Synthetic Turf Athletic Football Field at Emery Recreation Center as characterized above and in the following report has been verified to be out of compliance for shock attenuation and does not meet the requirements for play based on the specifications as referenced in ASTM F1936-10 with locations above the maximum allowable limit of 200.

Emery Recreation Center – Football Field
Overall G-max = 161

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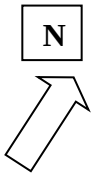
Emery Community Rec Center - Combination Football/Baseball Field									
G-max Values - 06.18.2019									
Test Location	Drop 1		Drop 2		Drop 3		Gmax Average	Infill Depth (mm)	Field Temp (°F)
	Gmax	HIC	Gmax	HIC	Gmax	HIC			
1	138	424	142	444	140	426	141.00	31	93
2	129	350	135	369	134	359	134.50	35	93
3	148	443	156	475	156	470	156.00	31	93
4	110	281	114	286	110	27	112.00	34	93
5	162	511	170	544	171	542	170.50	33	93
6	135	371	144	407	142	392	143.00	40	93
7	140	427	158	520	159	518	158.50	36	93
8	154	464	175	569	177	577	176.00	39	93
9	152	456	158	485	162	502	160.00	30	93
10	248	862	253	888	265	906	259.00	12	93
							161	Overall Average G-max	

Location	Specific Location Description
1	W goal line center of the field
2	W Soccer Goal area at center of field
3	SW 10yd line at the numbers
4	SW 25yd line at the hashes
5	Midfield at Centerfield
6	NE 25 yd line at the numbers
7	E center of the LAX circle
8	E Soccer Goal area at center of field
9	3ft off First Base Line toward 2nd base
10	Right handed batters box



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Location #1

Location#2

Location #3

Location #4

Location #5

Location #6

Location #7

Location #8

Location #9

Location #10