

LABORATORY TESTING HEAVY METALS ANALYSIS



Project Information

Project Name	Infill Heavy Metals Analysis F3188 TTII Play-Safe 65 Black EPDM	Job no.	93147/3277
Client Information	Target Technologies International Inc 8535 Eastlake Drive Burnaby, BC V5A 4T7		
Date of Report	March 22, 2018	Sample Arrival	3/9/2018
Report Status	Final		
Prepared by	Jeffrey Gentile Laboratory Director		
Checked by	Kieran O'Donnell Field Operation Manager		

Notes:

1. This report has been prepared by Sports Labs USA with all reasonable skill, care and diligence within the terms of the contract with the Client and within the limitations of the resources devoted to it.
2. This report is confidential to the Client and Sports Labs USA accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.
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Standard / Regulation:

ASTM F3188-16, Standard Specification for Extractable Hazardous Metals in Synthetic Turf Infill Materials

Requirements:

This specification relates to the amount of certain metals that have the potential to be extracted from synthetic turf infill materials if ingested. The time, temperature, and pH of the extraction fluid approximate the conditions the infill material would experience in the stomach during the digestive process. The levels of extractable metals are compared to maximum levels allowed in children's toys.

This specification applies to all materials (man-made or natural) that are intended for use as infill materials for synthetic turf sports surfaces.

Results:

All results were found to be below the limit criteria referenced above.

INFORMATION, ADVICE & KNOW-HOW: FROM THE SYNTHETIC SPORTS SURFACE EXPERTS



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Results Table:

Analyte	Analytical Method	*Suggested Concentration Limit (mg/kg)	Sample Result (mg/kg)	PASS / FAIL
Antimony	ASTM F3188	60	< 0.5	PASS
Arsenic	ASTM F3188	25	< 0.5	PASS
Barium	ASTM F3188	1000	0.65	PASS
Cadmium	ASTM F3188	75	< 0.5	PASS
Chromium	ASTM F3188	60	< 0.5	PASS
Lead	ASTM F3188	90	< 0.5	PASS
Mercury	ASTM F3188	60	< 0.02	PASS
Selenium	ASTM F3188	500	< 2.5	PASS

*The suggested concentration limits shown are based on screening levels per ASTM F3188-16 Migration of Certain Elements. These limits have been included for reference and are not project specific.

End of Report

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Chain of Custody No. 103818
 Multiple COC's Yes No



317 Elm Street Milford, NH 03055
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CUSTOMER INFORMATION PROJECT INFORMATION SAMPLE INFORMATION

CUSTOMER: Sports Labs USA
 ADDRESS: 155 River Rd, Unit #2
 CITY/STATE/ZIP: Bow, NH 03304
 TELEPHONE: 603 715-5453
 REPORT TO: Carol Vincent
 EMAIL TO: carol@sportslabsusa.com

JOB NAME: T111 PLAY-SAFE 65 BLACK EPDM
 JOB NUMBER: 93191/3319
 LOCATION:
 INVOICE EMAIL: carol@sportslabsusa.com
 INVOICE TO: Carol Vincent
 P.O. NUMBER:

TURNAROUND TIME: (CIRCLE ONE)
 10 DAY STANDARD RUSH (MUST BE PRE-APPROVED)
 7 day 5 day 4 day 3 day 2 day 1 day Same Day
 MCP YES NO GW1 GW2 GW3

STATION #	SAMPLE IDENTIFICATION & LOCATION	COLLECTED		SAMPLE TYPE	COM	MATRIX	# OF CONTAINERS	CONTAINER AND PRESERVATIVE	ANALYSIS
		DATE	TIME						
	10-18 EPDM	3/18	1:50			S			F3188
		DATE	TIME						
		DATE	TIME						
		DATE	TIME						
		DATE	TIME						
		DATE	TIME						
		DATE	TIME						

SAAMPLER: Carol Vincent
 SIGNATURE: [Signature]
 DATE: 3/18 TIME: 11:01
 MILITARY TIME

REINQUISHED: [Signature]
 DATE: DATE: TIME: TIME:

REINQUISHED: [Signature]
 DATE: DATE: TIME: TIME:

REINQUISHED: [Signature]
 DATE: DATE: TIME: TIME:

RECEIVED FOR LAB: [Signature]
 DATE: 3-19-18 TIME: 8:00

GROUP # 18030138 #12

FIELD READINGS & COMMENTS:

TEMP BLANK: 4/9°C

SAMPLE CHECK LIST:
 RECEIVED WITHIN HOLD TIME: YES OR NO
 RECEIVED IN GOOD CONDITION: YES OR NO
 SHIPPED OR HAND DELIVERED: YES OR NO
 SAMPLES WERE PROPERLY PRESERVED: YES OR NO
 SAMPLES WERE FILTERED IN FIELD: YES OR NO
 IF NO EXPLAIN: N/A