

TEST REPORT

DATE: 07-24-2025

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TEST NUMBER: 0321135

CLIENT	Challenger Turf Inc.
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TEST METHOD CONDUCTED	EPA Method 1633 Analysis of Per- and Polyfluoroalkyl Substances PFAS in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	TenCate PIVOT
CONSTRUCTION	Turf

GENERAL PRINCIPLE

Specimens are prepared and extracted using method-specific procedures. Sample extracts are subjected to cleanup procedures designed to remove interferences. Analyses of the sample extracts are conducted by LC-MS/MS in the multiple reaction monitoring (MRM) mode. Sample concentrations are determined by isotope dilution or extracted internal standard quantification using isotopically labeled compounds added to the samples before extraction.

TEST RESULTS

Sample ID	PIVOT Turf				
Sampling Date	7/15/2025 4:00 PM				
Matrix	Solid				
Dilution Factor	1				
Units	ng/kg				
Prep Level	Cryogenic Grinding				
LCMS - 1633	CAS#	Result	Q	Abbreviation	PQL
HFPODA	13252-13-6	ND	U	HFPO-DA	190
Perfluorotetradecanoic acid	376-06-7	ND	U	PFMPA	190
Perfluoro-3-methoxypropanoic acid	377-73-1	ND	U	PFAS	190
8:2 Fluorotelomer sulfonic acid	39108-34-4	ND	U	8:2FTS	190
NETFOSA	4151-50-2	ND	U	NETFOSA	190
Perfluorononanesulfonic acid	68259-12-1	ND	U	PFNS	190
Perfluorotridecanoic acid	72629-94-8	ND	U	PFTriA	190
Perfluoroctanesulfonamide	754-91-6	ND	U	FOSA	340
9CI-PF3ONS	756426-58-1	ND	U	9CI-PF3ONS	190
4:2 Fluorotelomer sulfonic acid	757124-72-4	ND	U	4:2FTS	190
11CI-PF3OUdS	763051-92-9	ND	U	11CI-PF3OUdS	190
Perfluorododecanesulfonic acid	79780-39-5	ND	U	PFDoS	190
Perfluoro-4-isopropoxybutanoic acid	801212-59-9	ND	U	PFIB	190
7:3 FTCA	812-70-4	ND	U	7:3FTCA	1000
Perfluoro(4-methoxybutanoic acid)	863090-89-5	ND	U	PFMBA	190
5:3 FTCA	914637-49-3	ND	U	5:3FTCA	1000

APPROVED BY:



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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Allsport Ultra
CONSTRUCTION	Turf

LCMS - 1633	CAS#	Result	Q	Abbreviation	PQL
Perfluoro-4-ethylcyclohexanesulfonic acid	133201-07-7	ND	U	PFECHS	190
Nonano fluoro-3,6-dioxaheptanoic acid	151772-58-6	ND	U	NFDHA	190
Perfluorooctanesulfonic acid	1763-23-1	ND	U	PFOS	190
Perfluoroundecanoic acid	2058-94-8	ND	U	PFUnA	190
NMeFOSAA	2355-31-9	ND	U	NMeFOSAA	190
NMeFOSE	24448-09-7	ND	U	NMeFOSA	190
Perfluoropentanoic acid	2706-90-3	ND	U	PPPeA	190
Perfluoropentanesulfonic acid	2706-91-4	ND	U	PPPeS	190
6:2 Fluorotelomer sulfonic acid	27619-97-2	ND	U	6:2FTS	940
NEtFOSAA	2991-50-6	ND	U	NEtFOSAA	940
Perfluorohexanoic acid	307-24-4	ND	U	PFHxA	190
Perfluorododecanoic acid	307-55-1	ND	U	PFDoA	190
NMeFOSA	31506-32-8	ND	U	NMeFOSA	190
Perfluorooctanoic acid	335-67-1	ND	U	PFOA	190
Perfluorodecanoic acid	335-76-2	ND	U	PFDA	190
Perfluorodecanesulfonic acid	335-77-3	ND	U	PFDS	190
Perfluorohexanesulfonic acid	355-46-4	ND	U	PFHxS	190
3:3 FTCA	356-02-5	ND	U	3:3FTCA	300
Perfluorobutanoic acid	375-22-4	ND	U	PFBA	190
Perfluorobutanesulfonic acid	375-73-5	ND	U	PFBS	190
Perfluoroheptanoic acid	375-85-9	ND	U	PFHxA	190
Perfluoroheptanesulfonic acid	375-92-8	ND	U	PFHps	190
Perfluorononanoic acid	375-95-1	ND	U	PFNA	190
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ND	U	ADONA	190

*1 : LCS/LCSD RPD exceeds control limits.

B : Compound was found in the blank and sample.

I : Value is EMPC (estimated maximum possible concentration).

J : Result is less than the PQL but greater than or equal to the MDL and the concentration value.

U : Indicates the analyte was analyzed for but not detected.

Bold indicates detected result.

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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Allsport Ultra
CONSTRUCTION	Turf

Finished Turf Specimen [Solid] Sampled 7/15/2025 4 :00PM

1633-40 Compounds 40 Compounds

321135

Sample Receipt Log

Default Cooler

Samples Received at: 20.0° C

Were Custody Seals present and signed?	Yes	Container/preservative correct for test requested?	Yes
Received on Ice	No	Sufficient amount sent for tests requested?	Yes
Within proper temp	Yes	Required containers sealed in separate bags?	Yes
Were all samples received at ambient?	Yes	Were all samples inspected and sampled correctly?	Yes
Was a chain of custody received?	Yes	Were bubbles absent in volatile samples?	NA
COCs complete/signed in the appropriate places?	Yes	Sufficient remaining holding time for analyses?	Yes
Were all samples listed on COC received?	Yes	If Applicable pH documented for necessary samples?	No
Did all samples/container labels agree with COCs?	Yes	If applicable, was the chlorine test negative?	NA
Did all containers arrive in good condition?	Yes	If applicable, samples free of oxidizers?	NA
Containers Intact	Yes	Thermometer # 10003954 used?	YES

APPROVED BY:

A handwritten signature in black ink that reads "Lee Phillips".

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