



ANALYTICAL REPORT

PREPARED FOR

Watersavers Turf
4316 Redwood Hwy, Ste 100
San Rafael, CA 94903

Generated 11/3/2023 9:15:13 AM Revision 1

JOB DESCRIPTION

Universal Play

JOB NUMBER

410-126654-1

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Authorized for release by
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11/3/2023 9:15:13 AM
Revision 1

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Definitions/Glossary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Qualifiers

LCMS

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.
cn	Refer to Case Narrative for further detail
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Job ID: 410-126654-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-126654-1

REVISION

The report being provided is a revision of the original report sent on 6/30/2023. The report (revision 1) is being revised due to the client request to change the sample ID and job description to Artificial Grass Product.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 5/15/2023 11:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

PFAS

Method CIC_Fluorine: Reporting limits were raised for the following sample due to interference from the sample matrix. Artificial Grass Product (410-126654-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 7471B: The following sample was analyzed outside of analytical holding time due to analysis requested after the hold time had expired: Artificial Grass Product (410-126654-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Watersavers Turf
 Project/Site: Universal Play

Job ID: 410-126654-1

Client Sample ID: Artificial Grass Product

Lab Sample ID: 410-126654-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Fluorine (TF)	95000	cn	410	250	ng/g	1		ELLE SOP	Total/NA
Barium	1.7		0.40	0.18	mg/Kg	2		6020B	Total/NA
Chromium	0.50		0.32	0.12	mg/Kg	2		6020B	Total/NA
Cobalt	0.45		0.20	0.058	mg/Kg	2		6020B	Total/NA
Copper	0.72		0.40	0.087	mg/Kg	2		6020B	Total/NA
Lead	0.11	J	0.20	0.075	mg/Kg	2		6020B	Total/NA
Molybdenum	0.41		0.20	0.091	mg/Kg	2		6020B	Total/NA
Nickel	6.9	B ^2	0.40	0.16	mg/Kg	2		6020B	Total/NA
Vanadium	0.29	J	0.79	0.20	mg/Kg	2		6020B	Total/NA
Zinc	330		150	20	mg/Kg	10		6020B	Total/NA
Barium	0.12	B	0.050	0.019	mg/L	1		6020B	STLC Citrate
Chromium	0.018	J	0.050	0.0084	mg/L	1		6020B	STLC Citrate
Cobalt	0.025	B	0.013	0.0039	mg/L	1		6020B	STLC Citrate
Copper	0.012	J	0.025	0.0091	mg/L	1		6020B	STLC Citrate
Lead	0.0079	J	0.013	0.0018	mg/L	1		6020B	STLC Citrate
Molybdenum	0.022		0.013	0.0033	mg/L	1		6020B	STLC Citrate
Nickel	0.010	J	0.025	0.010	mg/L	1		6020B	STLC Citrate

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Client Sample ID: Artificial Grass Product

Lab Sample ID: 410-126654-1

Date Collected: 05/11/23 00:00

Matrix: Solid

Date Received: 05/15/23 11:20

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluoroheptanoic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorooctanoic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorononanoic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorodecanoic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorotridecanoic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorotetradecanoic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorobutanesulfonic acid	ND		1.9	0.37	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorohexanesulfonic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorooctanesulfonic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
NEtFOSAA	ND		1.9	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
NMeFOSAA	ND		1.9	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
10:2 FTS	ND		1.9	0.56	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluoropentanesulfonic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluoroheptanesulfonic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorononanesulfonic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorodecanesulfonic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorooctanesulfonamide	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorobutanoic acid	ND		1.9	0.74	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluoropentanoic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
NMeFOSE	ND		1.9	0.46	ng/g		06/01/23 12:24	06/24/23 16:37	1
NMeFOSA	ND		1.9	0.46	ng/g		06/01/23 12:24	06/24/23 16:37	1
NEtFOSE	ND		1.9	0.46	ng/g		06/01/23 12:24	06/24/23 16:37	1
NEtFOSA	ND		1.9	0.46	ng/g		06/01/23 12:24	06/24/23 16:37	1
HFPODA	ND		1.9	0.93	ng/g		06/01/23 12:24	06/24/23 16:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.8	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
9Cl-PF3ONS	ND		1.9	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
11Cl-PF3OUdS	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluorododecanoic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
4:2 Fluorotelomer sulfonic acid	ND		1.9	0.56	ng/g		06/01/23 12:24	06/24/23 16:37	1
Perfluoroundecanoic acid	ND		0.56	0.19	ng/g		06/01/23 12:24	06/24/23 16:37	1
6:2 Fluorotelomer sulfonic acid	ND		1.9	0.56	ng/g		06/01/23 12:24	06/24/23 16:37	1
8:2 Fluorotelomer sulfonic acid	ND		2.8	0.56	ng/g		06/01/23 12:24	06/24/23 16:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	161		10 - 200	06/01/23 12:24	06/24/23 16:37	1
M2-8:2 FTS	155		15 - 200	06/01/23 12:24	06/24/23 16:37	1
M2-6:2 FTS	149		10 - 200	06/01/23 12:24	06/24/23 16:37	1
13C5 PFHxA	135		10 - 174	06/01/23 12:24	06/24/23 16:37	1
13C4 PFHpA	137		10 - 178	06/01/23 12:24	06/24/23 16:37	1
13C8 PFOA	129		26 - 159	06/01/23 12:24	06/24/23 16:37	1
13C9 PFNA	133		26 - 165	06/01/23 12:24	06/24/23 16:37	1
13C6 PFDA	123		26 - 161	06/01/23 12:24	06/24/23 16:37	1
13C7 PFUnA	126		12 - 173	06/01/23 12:24	06/24/23 16:37	1
13C2-PFDoDA	120		11 - 166	06/01/23 12:24	06/24/23 16:37	1
13C2 PFTeDA	114		10 - 169	06/01/23 12:24	06/24/23 16:37	1
13C3 PFBS	118		27 - 179	06/01/23 12:24	06/24/23 16:37	1
13C3 PFHxS	129		24 - 171	06/01/23 12:24	06/24/23 16:37	1
13C8 PFOS	126		41 - 154	06/01/23 12:24	06/24/23 16:37	1

Client Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Client Sample ID: Artificial Grass Product

Lab Sample ID: 410-126654-1

Date Collected: 05/11/23 00:00

Matrix: Solid

Date Received: 05/15/23 11:20

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	128		10 - 178	06/01/23 12:24	06/24/23 16:37	1
d5-NEtFOSAA	152		10 - 193	06/01/23 12:24	06/24/23 16:37	1
13C8 FOSA	116		14 - 163	06/01/23 12:24	06/24/23 16:37	1
13C4 PFBA	124		28 - 153	06/01/23 12:24	06/24/23 16:37	1
13C5 PFPeA	126		24 - 161	06/01/23 12:24	06/24/23 16:37	1
d7-N-MeFOSE-M	110		10 - 179	06/01/23 12:24	06/24/23 16:37	1
d3-NMePFOSA	103		10 - 175	06/01/23 12:24	06/24/23 16:37	1
d9-N-EtFOSE-M	109		10 - 185	06/01/23 12:24	06/24/23 16:37	1
d5-NEtPFOSA	103		10 - 180	06/01/23 12:24	06/24/23 16:37	1
13C3 HFPO-DA	90		10 - 169	06/01/23 12:24	06/24/23 16:37	1

Method: ELLE - Lancaster ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Extractable Organic Fluorine (EOF)	ND		280	130	ng/g		05/19/23 12:53	05/28/23 18:07	1
Total Fluorine (TF)	95000	cn	410	250	ng/g		05/21/23 16:54	05/22/23 06:13	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.20	0.079	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Arsenic	ND		0.40	0.13	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Barium	1.7		0.40	0.18	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Beryllium	ND		0.099	0.024	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Cadmium	ND		0.099	0.040	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Chromium	0.50		0.32	0.12	mg/Kg		06/29/23 19:41	06/30/23 11:00	2
Cobalt	0.45		0.20	0.058	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Copper	0.72		0.40	0.087	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Lead	0.11	J	0.20	0.075	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Molybdenum	0.41		0.20	0.091	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Nickel	6.9	B ^2	0.40	0.16	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Selenium	ND		0.40	0.099	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Silver	ND		0.099	0.040	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Thallium	ND		0.099	0.039	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Vanadium	0.29	J	0.79	0.20	mg/Kg		06/28/23 00:25	06/28/23 20:27	2
Zinc	330		150	20	mg/Kg		06/28/23 00:25	06/28/23 20:29	10

Method: SW846 6020B - Metals (ICP/MS) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.025	0.0050	mg/L		05/29/23 19:52	06/01/23 18:14	1
Arsenic	ND		0.050	0.017	mg/L		05/29/23 19:52	06/01/23 18:14	1
Barium	0.12	B	0.050	0.019	mg/L		05/29/23 19:52	06/01/23 18:14	1
Beryllium	ND		0.013	0.0030	mg/L		05/29/23 19:52	06/01/23 18:14	1
Cadmium	ND		0.013	0.0038	mg/L		05/29/23 19:52	06/01/23 18:14	1
Chromium	0.018	J	0.050	0.0084	mg/L		05/29/23 19:52	06/01/23 18:14	1
Cobalt	0.025	B	0.013	0.0039	mg/L		05/29/23 19:52	06/01/23 18:14	1
Copper	0.012	J	0.025	0.0091	mg/L		05/29/23 19:52	06/01/23 18:14	1
Lead	0.0079	J	0.013	0.0018	mg/L		05/29/23 19:52	06/01/23 18:14	1
Molybdenum	0.022		0.013	0.0033	mg/L		05/29/23 19:52	06/01/23 18:14	1
Nickel	0.010	J	0.025	0.010	mg/L		05/29/23 19:52	06/01/23 18:14	1
Selenium	ND		0.025	0.0070	mg/L		05/29/23 19:52	06/01/23 18:14	1
Silver	ND		0.013	0.0025	mg/L		05/29/23 19:52	06/01/23 18:14	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Client Sample ID: Artificial Grass Product

Lab Sample ID: 410-126654-1

Date Collected: 05/11/23 00:00

Matrix: Solid

Date Received: 05/15/23 11:20

Method: SW846 6020B - Metals (ICP/MS) - STLC Citrate (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.013	0.0033	mg/L		05/29/23 19:52	06/01/23 18:14	1
Vanadium	ND		0.10	0.020	mg/L		05/29/23 19:52	06/01/23 18:14	1
Zinc	ND		0.25	0.10	mg/L		05/29/23 19:52	06/01/23 18:14	1

Method: SW846 7470A - Mercury (CVAA) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		8.0	3.2	ug/L		05/29/23 19:56	05/31/23 08:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	H cn	0.058	0.019	mg/Kg		06/28/23 00:53	06/28/23 12:35	1

Isotope Dilution Summary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
410-126654-1	Artificial Grass Product	161	155	149	135	137	129	133	123
410-126654-1 MS	Artificial Grass Product	149	138	123	130	121	124	131	122
410-126654-1 MSD	Artificial Grass Product	144	128	121	128	123	124	127	119
LCS 410-381955/2-B	Lab Control Sample	130	137	121	126	123	126	131	123
MB 410-381955/1-B	Method Blank	133	145	142	134	131	135	141	124

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDODA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
410-126654-1	Artificial Grass Product	126	120	114	118	129	126	128	152
410-126654-1 MS	Artificial Grass Product	126	114	119	120	120	125	130	142
410-126654-1 MSD	Artificial Grass Product	122	110	117	114	120	125	131	152
LCS 410-381955/2-B	Lab Control Sample	128	121	119	120	128	125	128	137
MB 410-381955/1-B	Method Blank	128	128	115	116	131	128	120	141

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
410-126654-1	Artificial Grass Product	116	124	126	110	103	109	103	90
410-126654-1 MS	Artificial Grass Product	120	125	128	110	106	115	105	90
410-126654-1 MSD	Artificial Grass Product	117	123	123	113	104	118	103	88
LCS 410-381955/2-B	Lab Control Sample	113	113	116	115	111	115	110	85
MB 410-381955/1-B	Method Blank	112	115	120	116	104	108	103	81

Surrogate Legend

- M242FTS = M2-4:2 FTS
- M282FTS = M2-8:2 FTS
- M262FTS = M2-6:2 FTS
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFDODA = 13C2-PFDODA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- PFOSA = 13C8 FOSA
- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- NMFM = d7-N-MeFOSE-M
- d3NMFSA = d3-NMePFOSA
- NEFM = d9-N-EtFOSE-M
- d5NPFSA = d5-NEtPFOSA
- HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-381955/1-B

Matrix: Solid

Analysis Batch: 390283

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 381955

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluoroheptanoic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorooctanoic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorononanoic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorodecanoic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorotridecanoic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorotetradecanoic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorobutanesulfonic acid	ND		2.0	0.40	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorohexanesulfonic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorooctanesulfonic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
NEtFOSAA	ND		2.0	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
NMeFOSAA	ND		2.0	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
10:2 FTS	ND		2.0	0.60	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluoropentanesulfonic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluoroheptanesulfonic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorononanesulfonic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorodecanesulfonic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorooctanesulfonamide	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorobutanoic acid	ND		2.0	0.80	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluoropentanoic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
NMeFOSE	ND		2.0	0.50	ng/g		06/01/23 12:24	06/24/23 16:13	1
NMeFOSA	ND		2.0	0.50	ng/g		06/01/23 12:24	06/24/23 16:13	1
NEtFOSE	ND		2.0	0.50	ng/g		06/01/23 12:24	06/24/23 16:13	1
NEtFOSA	ND		2.0	0.50	ng/g		06/01/23 12:24	06/24/23 16:13	1
HFPODA	ND		2.0	1.0	ng/g		06/01/23 12:24	06/24/23 16:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		3.0	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
9Cl-PF3ONS	ND		2.0	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
11Cl-PF3OUdS	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluorododecanoic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.60	ng/g		06/01/23 12:24	06/24/23 16:13	1
Perfluoroundecanoic acid	ND		0.60	0.20	ng/g		06/01/23 12:24	06/24/23 16:13	1
6:2 Fluorotelomer sulfonic acid	ND		2.0	0.60	ng/g		06/01/23 12:24	06/24/23 16:13	1
8:2 Fluorotelomer sulfonic acid	ND		3.0	0.60	ng/g		06/01/23 12:24	06/24/23 16:13	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
M2-4:2 FTS	133		10 - 200	06/01/23 12:24	06/24/23 16:13	1
M2-8:2 FTS	145		15 - 200	06/01/23 12:24	06/24/23 16:13	1
M2-6:2 FTS	142		10 - 200	06/01/23 12:24	06/24/23 16:13	1
13C5 PFHxA	134		10 - 174	06/01/23 12:24	06/24/23 16:13	1
13C4 PFHpA	131		10 - 178	06/01/23 12:24	06/24/23 16:13	1
13C8 PFOA	135		26 - 159	06/01/23 12:24	06/24/23 16:13	1
13C9 PFNA	141		26 - 165	06/01/23 12:24	06/24/23 16:13	1
13C6 PFDA	124		26 - 161	06/01/23 12:24	06/24/23 16:13	1
13C7 PFUnA	128		12 - 173	06/01/23 12:24	06/24/23 16:13	1
13C2-PFDoDA	128		11 - 166	06/01/23 12:24	06/24/23 16:13	1
13C2 PFTeDA	115		10 - 169	06/01/23 12:24	06/24/23 16:13	1
13C3 PFBS	116		27 - 179	06/01/23 12:24	06/24/23 16:13	1
13C3 PFHxS	131		24 - 171	06/01/23 12:24	06/24/23 16:13	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-381955/1-B
Matrix: Solid
Analysis Batch: 390283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 381955

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOS	128		41 - 154	06/01/23 12:24	06/24/23 16:13	1
d3-NMeFOSAA	120		10 - 178	06/01/23 12:24	06/24/23 16:13	1
d5-NEtFOSAA	141		10 - 193	06/01/23 12:24	06/24/23 16:13	1
13C8 FOSA	112		14 - 163	06/01/23 12:24	06/24/23 16:13	1
13C4 PFBA	115		28 - 153	06/01/23 12:24	06/24/23 16:13	1
13C5 PFPeA	120		24 - 161	06/01/23 12:24	06/24/23 16:13	1
d7-N-MeFOSE-M	116		10 - 179	06/01/23 12:24	06/24/23 16:13	1
d3-NMePFOSA	104		10 - 175	06/01/23 12:24	06/24/23 16:13	1
d9-N-EtFOSE-M	108		10 - 185	06/01/23 12:24	06/24/23 16:13	1
d5-NEtPFOSA	103		10 - 180	06/01/23 12:24	06/24/23 16:13	1
13C3 HFPO-DA	81		10 - 169	06/01/23 12:24	06/24/23 16:13	1

Lab Sample ID: LCS 410-381955/2-B
Matrix: Solid
Analysis Batch: 390283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 381955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorohexanoic acid	25.0	18.2		ng/g		73	59 - 132
Perfluoroheptanoic acid	25.0	20.6		ng/g		82	59 - 137
Perfluorooctanoic acid	25.0	20.0		ng/g		80	59 - 131
Perfluorononanoic acid	25.0	20.3		ng/g		81	61 - 134
Perfluorodecanoic acid	25.0	20.8		ng/g		83	56 - 133
Perfluorotridecanoic acid	25.0	21.0		ng/g		84	53 - 143
Perfluorotetradecanoic acid	25.0	21.1		ng/g		84	62 - 134
Perfluorobutanesulfonic acid	22.1	18.3		ng/g		83	54 - 130
Perfluorohexanesulfonic acid	22.8	18.2		ng/g		80	59 - 129
Perfluorooctanesulfonic acid	23.1	19.0		ng/g		82	61 - 126
NEtFOSAA	25.0	20.5		ng/g		82	57 - 127
NMeFOSAA	25.0	20.4		ng/g		81	60 - 134
10:2 FTS	24.1	18.0		ng/g		74	46 - 143
Perfluoropentanesulfonic acid	23.5	19.8		ng/g		84	57 - 133
Perfluoroheptanesulfonic acid	23.8	19.0		ng/g		80	59 - 132
Perfluorononanesulfonic acid	24.0	19.0		ng/g		79	60 - 132
Perfluorodecanesulfonic acid	24.1	19.5		ng/g		81	57 - 132
Perfluorooctanesulfonamide	25.0	19.2		ng/g		77	47 - 149
Perfluorobutanoic acid	25.0	19.4		ng/g		78	60 - 128
Perfluoropentanoic acid	25.0	19.3		ng/g		77	58 - 134
NMeFOSE	25.0	19.5		ng/g		78	60 - 130
NMeFOSA	25.0	21.1		ng/g		84	60 - 129
NEtFOSE	25.0	18.6		ng/g		74	60 - 126
NEtFOSA	25.0	18.9		ng/g		76	60 - 123
HFPODA	25.0	16.1		ng/g		65	49 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	23.6	19.4		ng/g		82	57 - 137
9Cl-PF3ONS	23.3	19.1		ng/g		82	62 - 130
11Cl-PF3OUdS	23.3	19.5		ng/g		84	55 - 135
Perfluorododecanoic acid	25.0	20.7		ng/g		83	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	18.2		ng/g		78	58 - 131
Perfluoroundecanoic acid	25.0	21.3		ng/g		85	60 - 134

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-381955/2-B
Matrix: Solid
Analysis Batch: 390283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 381955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
6:2 Fluorotelomer sulfonic acid	23.7	17.9		ng/g		75	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	18.2		ng/g		76	55 - 133

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	130		10 - 200
M2-8:2 FTS	137		15 - 200
M2-6:2 FTS	121		10 - 200
13C5 PFHxA	126		10 - 174
13C4 PFHpA	123		10 - 178
13C8 PFOA	126		26 - 159
13C9 PFNA	131		26 - 165
13C6 PFDA	123		26 - 161
13C7 PFUnA	128		12 - 173
13C2-PFDoDA	121		11 - 166
13C2 PFTeDA	119		10 - 169
13C3 PFBS	120		27 - 179
13C3 PFHxS	128		24 - 171
13C8 PFOS	125		41 - 154
d3-NMeFOSAA	128		10 - 178
d5-NEtFOSAA	137		10 - 193
13C8 FOSA	113		14 - 163
13C4 PFBA	113		28 - 153
13C5 PFPeA	116		24 - 161
d7-N-MeFOSE-M	115		10 - 179
d3-NMePFOSA	111		10 - 175
d9-N-EtFOSE-M	115		10 - 185
d5-NEtPFOSA	110		10 - 180
13C3 HFPO-DA	85		10 - 169

Lab Sample ID: 410-126654-1 MS
Matrix: Solid
Analysis Batch: 390283

Client Sample ID: Artificial Grass Product
Prep Type: Total/NA
Prep Batch: 381955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		22.9	17.2		ng/g		75	59 - 132
Perfluoroheptanoic acid	ND		22.9	19.5		ng/g		85	59 - 137
Perfluorooctanoic acid	ND		22.9	18.3		ng/g		80	59 - 131
Perfluorononanoic acid	ND		22.9	19.5		ng/g		85	61 - 134
Perfluorodecanoic acid	ND		22.9	19.8		ng/g		86	56 - 133
Perfluorotridecanoic acid	ND		22.9	19.7		ng/g		86	53 - 143
Perfluorotetradecanoic acid	ND		22.9	18.4		ng/g		80	62 - 134
Perfluorobutanesulfonic acid	ND		20.3	17.0		ng/g		84	54 - 130
Perfluorohexanesulfonic acid	ND		20.9	17.1		ng/g		82	59 - 129
Perfluorooctanesulfonic acid	ND		21.2	17.2		ng/g		81	61 - 126
NEtFOSAA	ND		22.9	18.9		ng/g		82	57 - 127
NMeFOSAA	ND		22.9	18.1		ng/g		79	60 - 134
10:2 FTS	ND		22.1	18.4		ng/g		83	46 - 143
Perfluoropentanesulfonic acid	ND		21.5	18.2		ng/g		85	57 - 133
Perfluoroheptanesulfonic acid	ND		21.8	17.5		ng/g		80	59 - 132

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-126654-1 MS

Matrix: Solid

Analysis Batch: 390283

Client Sample ID: Artificial Grass Product

Prep Type: Total/NA

Prep Batch: 381955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanesulfonic acid	ND		22.0	17.6		ng/g		80	60 - 132
Perfluorodecanesulfonic acid	ND		22.1	17.7		ng/g		80	57 - 132
Perfluorooctanesulfonamide	ND		22.9	16.9		ng/g		74	47 - 149
Perfluorobutanoic acid	ND		22.9	17.7		ng/g		77	60 - 128
Perfluoropentanoic acid	ND		22.9	17.2		ng/g		75	58 - 134
NMeFOSE	ND		22.9	17.6		ng/g		77	60 - 130
NMeFOSA	ND		22.9	17.3		ng/g		75	60 - 129
NEtFOSE	ND		22.9	17.3		ng/g		75	60 - 126
NEtFOSA	ND		22.9	16.0		ng/g		70	60 - 123
HFPODA	ND		22.9	17.2		ng/g		75	49 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		21.7	18.5		ng/g		85	57 - 137
9Cl-PF3ONS	ND		21.3	17.7		ng/g		83	62 - 130
11Cl-PF3OUdS	ND		21.3	17.8		ng/g		83	55 - 135
Perfluorododecanoic acid	ND		22.9	19.3		ng/g		84	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		21.4	16.1		ng/g		75	58 - 131
Perfluoroundecanoic acid	ND		22.9	19.0		ng/g		83	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		21.7	16.8		ng/g		77	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		22.0	17.0		ng/g		77	55 - 133

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
M2-4:2 FTS	149		10 - 200
M2-8:2 FTS	138		15 - 200
M2-6:2 FTS	123		10 - 200
13C5 PFHxA	130		10 - 174
13C4 PFHpA	121		10 - 178
13C8 PFOA	124		26 - 159
13C9 PFNA	131		26 - 165
13C6 PFDA	122		26 - 161
13C7 PFUnA	126		12 - 173
13C2-PFDoDA	114		11 - 166
13C2 PFTeDA	119		10 - 169
13C3 PFBS	120		27 - 179
13C3 PFHxS	120		24 - 171
13C8 PFOS	125		41 - 154
d3-NMeFOSAA	130		10 - 178
d5-NEtFOSAA	142		10 - 193
13C8 FOSA	120		14 - 163
13C4 PFBA	125		28 - 153
13C5 PFPeA	128		24 - 161
d7-N-MeFOSE-M	110		10 - 179
d3-NMePFOSA	106		10 - 175
d9-N-EtFOSE-M	115		10 - 185
d5-NEtPFOSA	105		10 - 180
13C3 HFPO-DA	90		10 - 169

QC Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-126654-1 MSD

Matrix: Solid

Analysis Batch: 390283

Client Sample ID: Artificial Grass Product

Prep Type: Total/NA

Prep Batch: 381955

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Perfluorohexanoic acid	ND		23.1	17.4		ng/g		75	59 - 132	1	30
Perfluoroheptanoic acid	ND		23.1	18.8		ng/g		81	59 - 137	4	30
Perfluorooctanoic acid	ND		23.1	19.0		ng/g		82	59 - 131	4	30
Perfluorononanoic acid	ND		23.1	19.4		ng/g		84	61 - 134	1	30
Perfluorodecanoic acid	ND		23.1	19.8		ng/g		86	56 - 133	0	30
Perfluorotridecanoic acid	ND		23.1	19.2		ng/g		83	53 - 143	3	30
Perfluorotetradecanoic acid	ND		23.1	19.6		ng/g		84	62 - 134	6	30
Perfluorobutanesulfonic acid	ND		20.5	17.4		ng/g		85	54 - 130	2	30
Perfluorohexanesulfonic acid	ND		21.1	17.1		ng/g		81	59 - 129	0	30
Perfluorooctanesulfonic acid	ND		21.4	17.0		ng/g		79	61 - 126	1	30
NEtFOSAA	ND		23.1	17.9		ng/g		77	57 - 127	6	30
NMeFOSAA	ND		23.1	18.4		ng/g		80	60 - 134	2	30
10:2 FTS	ND		22.3	19.2		ng/g		86	46 - 143	4	30
Perfluoropentanesulfonic acid	ND		21.7	18.9		ng/g		87	57 - 133	4	30
Perfluoroheptanesulfonic acid	ND		22.0	17.2		ng/g		78	59 - 132	1	30
Perfluorononanesulfonic acid	ND		22.2	17.1		ng/g		77	60 - 132	3	30
Perfluorodecanesulfonic acid	ND		22.3	17.2		ng/g		77	57 - 132	3	30
Perfluorooctanesulfonamide	ND		23.1	18.0		ng/g		78	47 - 149	6	30
Perfluorobutanoic acid	ND		23.1	18.0		ng/g		78	60 - 128	2	30
Perfluoropentanoic acid	ND		23.1	17.8		ng/g		77	58 - 134	3	30
NMeFOSE	ND		23.1	17.4		ng/g		75	60 - 130	1	30
NMeFOSA	ND		23.1	20.0		ng/g		87	60 - 129	15	30
NEtFOSE	ND		23.1	16.6		ng/g		72	60 - 126	4	30
NEtFOSA	ND		23.1	18.5		ng/g		80	60 - 123	15	30
HFPODA	ND		23.1	17.1		ng/g		74	49 - 135	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		21.9	18.6		ng/g		85	57 - 137	1	30
9Cl-PF3ONS	ND		21.5	16.9		ng/g		79	62 - 130	5	30
11Cl-PF3OUdS	ND		21.5	17.3		ng/g		80	55 - 135	3	30
Perfluorododecanoic acid	ND		23.1	20.2		ng/g		87	60 - 135	4	30
4:2 Fluorotelomer sulfonic acid	ND		21.6	16.5		ng/g		77	58 - 131	3	30
Perfluoroundecanoic acid	ND		23.1	20.7		ng/g		89	60 - 134	9	30
6:2 Fluorotelomer sulfonic acid	ND		21.9	17.2		ng/g		79	59 - 135	3	30
8:2 Fluorotelomer sulfonic acid	ND		22.2	18.7		ng/g		84	55 - 133	9	30

Isotope Dilution	MSD	MSD	Limits
	%Recovery	Qualifier	
M2-4:2 FTS	144		10 - 200
M2-8:2 FTS	128		15 - 200
M2-6:2 FTS	121		10 - 200
13C5 PFHxA	128		10 - 174
13C4 PFHpA	123		10 - 178
13C8 PFOA	124		26 - 159
13C9 PFNA	127		26 - 165
13C6 PFDA	119		26 - 161
13C7 PFUnA	122		12 - 173
13C2-PFDoDA	110		11 - 166
13C2 PFTeDA	117		10 - 169
13C3 PFBS	114		27 - 179
13C3 PFHxS	120		24 - 171

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 410-126654-1 MSD
Matrix: Solid
Analysis Batch: 390283

Client Sample ID: Artificial Grass Product
Prep Type: Total/NA
Prep Batch: 381955

Isotope Dilution	MSD		Limits
	%Recovery	Qualifier	
13C8 PFOS	125		41 - 154
d3-NMeFOSAA	131		10 - 178
d5-NEtFOSAA	152		10 - 193
13C8 FOSA	117		14 - 163
13C4 PFBA	123		28 - 153
13C5 PFPeA	123		24 - 161
d7-N-MeFOSE-M	113		10 - 179
d3-NMePFOSA	104		10 - 175
d9-N-EtFOSE-M	118		10 - 185
d5-NEtPFOSA	103		10 - 180
13C3 HFPO-DA	88		10 - 169

Method: ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Lab Sample ID: MB 410-377912/1-B
Matrix: Solid
Analysis Batch: 380923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 377912

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Extractable Organic Fluorine (EOF)	ND		300	140	ng/g		05/19/23 12:53	05/28/23 16:29	1

Lab Sample ID: LCS 410-377912/2-B
Matrix: Solid
Analysis Batch: 380923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 377912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LCSD 410-377912/3-B
Matrix: Solid
Analysis Batch: 380923

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 377912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit

Lab Sample ID: MB 410-378269/1-A
Matrix: Solid
Analysis Batch: 378466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 378269

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Fluorine (TF)	ND		200	120	ng/g		05/21/23 14:54	05/21/23 15:30	1

Lab Sample ID: LCS 410-378269/2-A
Matrix: Solid
Analysis Batch: 378466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 378269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

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QC Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method: ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography (Continued)

Lab Sample ID: LCSD 410-378269/3-A
Matrix: Solid
Analysis Batch: 378466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 378269

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Fluorine (TF)	10100	11300		ng/g		112	50 - 150	2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-391522/1-A ^2
Matrix: Solid
Analysis Batch: 391998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.20	0.080	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Arsenic	ND		0.40	0.13	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Barium	ND		0.40	0.18	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Beryllium	ND		0.10	0.024	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Cadmium	ND		0.10	0.040	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Cobalt	ND		0.20	0.058	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Copper	ND		0.40	0.088	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Lead	ND		0.20	0.076	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Molybdenum	ND		0.20	0.092	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Nickel	0.357	J	0.40	0.16	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Selenium	ND		0.40	0.10	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Silver	ND		0.10	0.041	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Thallium	ND		0.10	0.039	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Vanadium	ND		0.80	0.20	mg/Kg		06/28/23 00:25	06/28/23 19:41	2
Zinc	ND		30	4.0	mg/Kg		06/28/23 00:25	06/28/23 19:41	2

Lab Sample ID: LCS 410-391522/2-A ^2
Matrix: Solid
Analysis Batch: 391998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.0		mg/Kg		100	80 - 120
Arsenic	50.0	48.7		mg/Kg		97	80 - 120
Barium	50.0	50.6		mg/Kg		101	80 - 120
Beryllium	5.00	5.12		mg/Kg		102	80 - 120
Cadmium	5.00	4.96		mg/Kg		99	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Copper	50.0	47.2		mg/Kg		94	80 - 120
Lead	5.00	4.87		mg/Kg		97	80 - 120
Molybdenum	5.00	4.94		mg/Kg		99	80 - 120
Nickel	50.0	48.7	B	mg/Kg		97	80 - 120
Selenium	10.0	9.71		mg/Kg		97	80 - 120
Silver	5.00	4.91		mg/Kg		98	80 - 120
Thallium	10.0	9.77		mg/Kg		98	80 - 120
Vanadium	50.0	49.5		mg/Kg		99	80 - 120
Zinc	50.0	48.2		mg/Kg		96	80 - 120

QC Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-392450/1-A ^2
Matrix: Solid
Analysis Batch: 392725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.40	0.15	mg/Kg		06/29/23 19:41	06/30/23 08:55	2

Lab Sample ID: LCS 410-392450/2-A ^2
Matrix: Solid
Analysis Batch: 392725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	50.0	49.2		mg/Kg		98	80 - 120

Lab Sample ID: MB 410-380799/1-A
Matrix: Solid
Analysis Batch: 382138

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 380799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.025	0.0050	mg/L		05/29/23 19:52	06/01/23 18:04	1
Arsenic	ND		0.050	0.017	mg/L		05/29/23 19:52	06/01/23 18:04	1
Barium	ND		0.050	0.019	mg/L		05/29/23 19:52	06/01/23 18:04	1
Beryllium	ND		0.013	0.0030	mg/L		05/29/23 19:52	06/01/23 18:04	1
Cadmium	ND		0.013	0.0038	mg/L		05/29/23 19:52	06/01/23 18:04	1
Chromium	ND		0.050	0.0084	mg/L		05/29/23 19:52	06/01/23 18:04	1
Cobalt	ND		0.013	0.0039	mg/L		05/29/23 19:52	06/01/23 18:04	1
Copper	ND		0.025	0.0091	mg/L		05/29/23 19:52	06/01/23 18:04	1
Lead	ND		0.013	0.0018	mg/L		05/29/23 19:52	06/01/23 18:04	1
Molybdenum	ND		0.013	0.0033	mg/L		05/29/23 19:52	06/01/23 18:04	1
Nickel	ND		0.025	0.010	mg/L		05/29/23 19:52	06/01/23 18:04	1
Selenium	ND		0.025	0.0070	mg/L		05/29/23 19:52	06/01/23 18:04	1
Silver	ND		0.013	0.0025	mg/L		05/29/23 19:52	06/01/23 18:04	1
Thallium	ND		0.013	0.0033	mg/L		05/29/23 19:52	06/01/23 18:04	1
Vanadium	ND		0.10	0.020	mg/L		05/29/23 19:52	06/01/23 18:04	1
Zinc	ND		0.25	0.10	mg/L		05/29/23 19:52	06/01/23 18:04	1

Lab Sample ID: LCS 410-380799/2-A
Matrix: Solid
Analysis Batch: 382138

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 380799

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	2.50	2.66		mg/L		107	80 - 120
Arsenic	12.5	12.9		mg/L		103	85 - 120
Barium	12.5	13.1		mg/L		105	80 - 120
Beryllium	1.25	1.28		mg/L		102	90 - 112
Cadmium	1.25	1.28		mg/L		102	86 - 113
Chromium	12.5	12.5		mg/L		100	90 - 115
Cobalt	12.5	12.5		mg/L		100	90 - 113
Copper	12.5	12.6		mg/L		101	80 - 120
Lead	1.25	1.29		mg/L		103	90 - 115
Molybdenum	1.25	1.31		mg/L		104	85 - 115
Nickel	12.5	12.4		mg/L		99	90 - 114
Selenium	2.50	2.56		mg/L		102	80 - 120
Silver	1.25	1.25		mg/L		100	88 - 113

QC Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-380799/2-A
Matrix: Solid
Analysis Batch: 382138

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 380799

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	2.50	2.54		mg/L		102	80 - 120
Vanadium	12.5	12.8		mg/L		102	90 - 115
Zinc	12.5	13.0		mg/L		104	90 - 115

Lab Sample ID: 410-126654-1 MS
Matrix: Solid
Analysis Batch: 382138

Client Sample ID: Artificial Grass Product
Prep Type: STLC Citrate
Prep Batch: 380799

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		2.50	2.65		mg/L		106	75 - 125
Arsenic	ND		12.5	12.8		mg/L		102	75 - 125
Barium	0.12	B	12.5	13.3		mg/L		105	75 - 125
Beryllium	ND		1.25	1.26		mg/L		101	75 - 125
Cadmium	ND		1.25	1.29		mg/L		103	75 - 125
Chromium	0.019	J	12.5	12.5		mg/L		100	75 - 125
Cobalt	0.024	B ^2	12.5	12.5		mg/L		100	80 - 125
Copper	0.011	J	12.5	12.5		mg/L		100	75 - 125
Lead	0.0080	J	1.25	1.31		mg/L		104	75 - 125
Molybdenum	0.022		1.25	1.32		mg/L		104	81 - 125
Nickel	ND		12.5	12.2		mg/L		98	75 - 125
Selenium	ND		2.50	2.56		mg/L		102	75 - 125
Silver	ND		1.25	1.25		mg/L		100	75 - 125
Thallium	ND		2.50	2.59		mg/L		103	75 - 125
Vanadium	ND		12.5	12.8		mg/L		102	75 - 125
Zinc	ND		12.5	12.8		mg/L		102	75 - 125

Lab Sample ID: 410-126654-1 MSD
Matrix: Solid
Analysis Batch: 382138

Client Sample ID: Artificial Grass Product
Prep Type: STLC Citrate
Prep Batch: 380799

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	ND		2.50	2.64		mg/L		106	75 - 125	0	20
Arsenic	ND		12.5	12.7		mg/L		102	75 - 125	1	20
Barium	0.12	B	12.5	13.2		mg/L		105	75 - 125	1	20
Beryllium	ND		1.25	1.26		mg/L		101	75 - 125	0	20
Cadmium	ND		1.25	1.28		mg/L		103	75 - 125	1	20
Chromium	0.019	J	12.5	12.2		mg/L		98	75 - 125	2	20
Cobalt	0.024	B ^2	12.5	12.3		mg/L		98	80 - 125	2	20
Copper	0.011	J	12.5	12.4		mg/L		99	75 - 125	1	20
Lead	0.0080	J	1.25	1.28		mg/L		101	75 - 125	3	20
Molybdenum	0.022		1.25	1.33		mg/L		105	81 - 125	1	20
Nickel	ND		12.5	12.2		mg/L		97	75 - 125	1	20
Selenium	ND		2.50	2.55		mg/L		102	75 - 125	0	20
Silver	ND		1.25	1.24		mg/L		99	75 - 125	0	20
Thallium	ND		2.50	2.53		mg/L		101	75 - 125	2	20
Vanadium	ND		12.5	12.6		mg/L		100	75 - 125	2	20
Zinc	ND		12.5	12.6		mg/L		100	75 - 125	2	20

QC Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-126654-1 DU
Matrix: Solid
Analysis Batch: 382138

Client Sample ID: Artificial Grass Product
Prep Type: STLC Citrate
Prep Batch: 380799

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	ND		ND		mg/L		NC	20
Arsenic	ND		ND		mg/L		NC	20
Barium	0.12	B	0.116		mg/L		0.2	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.019	J	0.0214	J	mg/L		12	20
Cobalt	0.024	B ^2	0.0240		mg/L		1	20
Copper	0.011	J	0.0134	J	mg/L		17	20
Lead	0.0080	J	0.00808	J	mg/L		0.9	20
Molybdenum	0.022		0.0204		mg/L		9	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-380800/1-A
Matrix: Solid
Analysis Batch: 381532

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 380800

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		8.0	3.2	ug/L		05/29/23 19:56	05/31/23 08:43	1

Lab Sample ID: LCS 410-380800/2-A
Matrix: Solid
Analysis Batch: 381532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 380800

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Mercury	40.0	38.1		ug/L		95	80 - 118

Lab Sample ID: 410-126654-1 MS
Matrix: Solid
Analysis Batch: 381532

Client Sample ID: Artificial Grass Product
Prep Type: STLC Citrate
Prep Batch: 380800

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Mercury	ND		40.0	36.2		ug/L		91	80 - 120

Lab Sample ID: 410-126654-1 MSD
Matrix: Solid
Analysis Batch: 381532

Client Sample ID: Artificial Grass Product
Prep Type: STLC Citrate
Prep Batch: 380800

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Mercury	ND		40.0	38.3		ug/L		96	80 - 120	5	20

QC Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 410-126654-1 DU
Matrix: Solid
Analysis Batch: 381532

Client Sample ID: Artificial Grass Product
Prep Type: STLC Citrate
Prep Batch: 380800

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	ND		ND		ug/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-391526/1-A
Matrix: Solid
Analysis Batch: 391777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.036	0.012	mg/Kg		06/28/23 00:53	06/28/23 12:07	1

Lab Sample ID: LCS 410-391526/2-A
Matrix: Solid
Analysis Batch: 391777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.100	0.0955		mg/Kg		95	80 - 120

QC Association Summary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

LCMS

Prep Batch: 377912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	CIC Prep	
MB 410-377912/1-B	Method Blank	Total/NA	Solid	CIC Prep	
LCS 410-377912/2-B	Lab Control Sample	Total/NA	Solid	CIC Prep	
LCSD 410-377912/3-B	Lab Control Sample Dup	Total/NA	Solid	CIC Prep	

Cleanup Batch: 377918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	Extract Aliquot	377912
MB 410-377912/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	377912
LCS 410-377912/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	377912
LCSD 410-377912/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	377912

Prep Batch: 378269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	CIC Prep	
MB 410-378269/1-A	Method Blank	Total/NA	Solid	CIC Prep	
LCS 410-378269/2-A	Lab Control Sample	Total/NA	Solid	CIC Prep	
LCSD 410-378269/3-A	Lab Control Sample Dup	Total/NA	Solid	CIC Prep	

Analysis Batch: 378466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	ELLE SOP	378269
MB 410-378269/1-A	Method Blank	Total/NA	Solid	ELLE SOP	378269
LCS 410-378269/2-A	Lab Control Sample	Total/NA	Solid	ELLE SOP	378269
LCSD 410-378269/3-A	Lab Control Sample Dup	Total/NA	Solid	ELLE SOP	378269

Analysis Batch: 380923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	ELLE SOP	377918
MB 410-377912/1-B	Method Blank	Total/NA	Solid	ELLE SOP	377918
LCS 410-377912/2-B	Lab Control Sample	Total/NA	Solid	ELLE SOP	377918
LCSD 410-377912/3-B	Lab Control Sample Dup	Total/NA	Solid	ELLE SOP	377918

Prep Batch: 381955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	537 (mod)	
MB 410-381955/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-381955/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
410-126654-1 MS	Artificial Grass Product	Total/NA	Solid	537 (mod)	
410-126654-1 MSD	Artificial Grass Product	Total/NA	Solid	537 (mod)	

Cleanup Batch: 381963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	Extract Aliquot	381955
MB 410-381955/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	381955
LCS 410-381955/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	381955
410-126654-1 MS	Artificial Grass Product	Total/NA	Solid	Extract Aliquot	381955
410-126654-1 MSD	Artificial Grass Product	Total/NA	Solid	Extract Aliquot	381955

QC Association Summary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

LCMS

Analysis Batch: 390283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	537 IDA	381963
MB 410-381955/1-B	Method Blank	Total/NA	Solid	537 IDA	381963
LCS 410-381955/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	381963
410-126654-1 MS	Artificial Grass Product	Total/NA	Solid	537 IDA	381963
410-126654-1 MSD	Artificial Grass Product	Total/NA	Solid	537 IDA	381963

Metals

Leach Batch: 379458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	STLC Citrate	Solid	CA WET Citrate	
410-126654-1 MS	Artificial Grass Product	STLC Citrate	Solid	CA WET Citrate	
410-126654-1 MSD	Artificial Grass Product	STLC Citrate	Solid	CA WET Citrate	
410-126654-1 DU	Artificial Grass Product	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 380799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	STLC Citrate	Solid	3005A	379458
MB 410-380799/1-A	Method Blank	Total Recoverable	Solid	3005A	
LCS 410-380799/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
410-126654-1 MS	Artificial Grass Product	STLC Citrate	Solid	3005A	379458
410-126654-1 MSD	Artificial Grass Product	STLC Citrate	Solid	3005A	379458
410-126654-1 DU	Artificial Grass Product	STLC Citrate	Solid	3005A	379458

Prep Batch: 380800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	STLC Citrate	Solid	7470A	379458
MB 410-380800/1-A	Method Blank	Total/NA	Solid	7470A	
LCS 410-380800/2-A	Lab Control Sample	Total/NA	Solid	7470A	
410-126654-1 MS	Artificial Grass Product	STLC Citrate	Solid	7470A	379458
410-126654-1 MSD	Artificial Grass Product	STLC Citrate	Solid	7470A	379458
410-126654-1 DU	Artificial Grass Product	STLC Citrate	Solid	7470A	379458

Analysis Batch: 381532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	STLC Citrate	Solid	7470A	380800
MB 410-380800/1-A	Method Blank	Total/NA	Solid	7470A	380800
LCS 410-380800/2-A	Lab Control Sample	Total/NA	Solid	7470A	380800
410-126654-1 MS	Artificial Grass Product	STLC Citrate	Solid	7470A	380800
410-126654-1 MSD	Artificial Grass Product	STLC Citrate	Solid	7470A	380800
410-126654-1 DU	Artificial Grass Product	STLC Citrate	Solid	7470A	380800

Analysis Batch: 382138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	STLC Citrate	Solid	6020B	380799
MB 410-380799/1-A	Method Blank	Total Recoverable	Solid	6020B	380799
LCS 410-380799/2-A	Lab Control Sample	Total Recoverable	Solid	6020B	380799
410-126654-1 MS	Artificial Grass Product	STLC Citrate	Solid	6020B	380799
410-126654-1 MSD	Artificial Grass Product	STLC Citrate	Solid	6020B	380799
410-126654-1 DU	Artificial Grass Product	STLC Citrate	Solid	6020B	380799

QC Association Summary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Metals

Prep Batch: 391522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	3050B	
MB 410-391522/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-391522/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 391526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	7471B	
MB 410-391526/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 410-391526/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 391777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	7471B	391526
MB 410-391526/1-A	Method Blank	Total/NA	Solid	7471B	391526
LCS 410-391526/2-A	Lab Control Sample	Total/NA	Solid	7471B	391526

Analysis Batch: 391998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	6020B	391522
410-126654-1	Artificial Grass Product	Total/NA	Solid	6020B	391522
MB 410-391522/1-A ^2	Method Blank	Total/NA	Solid	6020B	391522
LCS 410-391522/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	391522

Prep Batch: 392450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	3050B	
MB 410-392450/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-392450/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 392725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-126654-1	Artificial Grass Product	Total/NA	Solid	6020B	392450
MB 410-392450/1-A ^2	Method Blank	Total/NA	Solid	6020B	392450
LCS 410-392450/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	392450

Lab Chronicle

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Client Sample ID: Artificial Grass Product

Lab Sample ID: 410-126654-1

Date Collected: 05/11/23 00:00

Matrix: Solid

Date Received: 05/15/23 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			381955	D5VP	ELLE	06/01/23 12:24
Total/NA	Cleanup	Extract Aliquot			381963	D5VP	ELLE	06/01/23 12:51
Total/NA	Analysis	537 IDA		1	390283	DTA4	ELLE	06/24/23 16:37
Total/NA	Prep	CIC Prep			378269	F9DU	ELLE	05/21/23 16:54
Total/NA	Analysis	ELLE SOP		1	378466	F9DU	ELLE	05/22/23 06:13
Total/NA	Prep	CIC Prep			377912	QLP7	ELLE	05/19/23 12:53
Total/NA	Cleanup	Extract Aliquot			377918	QLP7	ELLE	05/19/23 12:57
Total/NA	Analysis	ELLE SOP		1	380923	F9DU	ELLE	05/28/23 18:07
STLC Citrate	Leach	CA WET Citrate			379458	UNWS	ELLE	05/24/23 10:30 - 05/26/23 08:30 ¹
STLC Citrate	Prep	3005A			380799	UAMX	ELLE	05/29/23 19:52
STLC Citrate	Analysis	6020B		1	382138	UCIG	ELLE	06/01/23 18:14
Total/NA	Prep	3050B			391522	HUH3	ELLE	06/28/23 00:25
Total/NA	Analysis	6020B		2	391998	UCIG	ELLE	06/28/23 20:27
Total/NA	Prep	3050B			391522	HUH3	ELLE	06/28/23 00:25
Total/NA	Analysis	6020B		10	391998	UCIG	ELLE	06/28/23 20:29
Total/NA	Prep	3050B			392450	UAMX	ELLE	06/29/23 19:41
Total/NA	Analysis	6020B		2	392725	F7JF	ELLE	06/30/23 11:00
STLC Citrate	Leach	CA WET Citrate			379458	UNWS	ELLE	05/24/23 10:30 - 05/26/23 08:30 ¹
STLC Citrate	Prep	7470A			380800	UAMX	ELLE	05/29/23 19:56
STLC Citrate	Analysis	7470A		1	381532	UEFS	ELLE	05/31/23 08:47
Total/NA	Prep	7471B			391526	HUH3	ELLE	06/28/23 00:53
Total/NA	Analysis	7471B		1	391777	UEFS	ELLE	06/28/23 12:35

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-08-23
California	State	2792	09-11-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	06-30-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	08-01-23
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-04-23
North Carolina (WW/SW)	State	521	08-21-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	9804	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	07-06-23
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-23-46	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-27-23
Virginia	NELAP	460182	07-14-23
Washington	State	C457	07-17-23
West Virginia (DW)	State	9906 C	12-31-23

Accreditation/Certification Summary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	055	09-06-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

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Method Summary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
ELLE SOP	Total or Organic Fluorine by Combustion Ion Chromatography	ELLE - Lancaster	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
7471B	Mercury (CVAA)	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3050B	Preparation, Metals	SW846	ELLE
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
7470A	Preparation, Mercury	SW846	ELLE
7471B	Preparation, Mercury	SW846	ELLE
CA WET Citrate	California - Waste Extraction Test with Citrate Leach	CA-WET	ELLE
CIC Prep	Preparation, Fluorine	ELLE - Lancaster	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE

Protocol References:

CA-WET = California Waste Extraction Test, from Title 22

ELLE - Lancaster = Eurofins Lancaster, Facility Standard Operating Procedure.

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-126654-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-126654-1	Artificial Grass Product	Solid	05/11/23 00:00	05/15/23 11:20

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410-126654 Chain of Custody

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone (717) 656-2300

Chain of Custody Record

eurofins Environment Testing

Client Information Client Contact: Leon Chen Company: CCGrass				Sampler: Brown, Nicole E-Mail: Nicole.Brown@et.eurofins.com	Lab PM: Brown, Nicole Carrier Tracking No(s):	COC No: 410-88544-24710.1 Page 1 of 1							
Address: Floor 19 Dadi Building no. 56 Huaqiao Road City: Nanjing 210029 State, Zip: CN Phone #: 8611667-6565(Tel) Email: leon_chen@ccgrass.com Project Name: Turf Yarn Testing Site:				PWSID	Analysis Requested								
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO # Prepayment via Credit card WO #				Field Filtered Sample (Yes or No) Perform MSMS/SD (Yes or No)	6/2009, 7/4118 Total Metals This 22 List 40298, 7410A - STLC CA Leached Metals This 22 List CIC_Fluorine Extractable Organic Fluorine (EOF) CIC_Fluorine Total Fluorine (TF) PFC_MDA List of 33 PFAS Compounds	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - Agfx02 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4.5 L - EDA Y - Trizma Other: Z - other (specify)	Job #						
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, G=grab, B=Soil, A=Air)	Field Filtered Sample (Yes or No) Perform MSMS/SD (Yes or No)	Total Number of Containers	Special Instructions/Note:					
Artificial Grass Yarn		202305	11		Solid	X	X	X	X	X	X		
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)									Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months				
Empty Kit Relinquished by: Date: Time: Method of Shipment:													
Relinquished by:		Date/Time	Company	Received by:		Date/Time	Company						
Relinquished by:		Date/Time	Company	Received by:		Date/Time	Company						
Relinquished by:		Date/Time	Company	Received by:		Date/Time	Company						
Custody Seals Intact: A Yes Δ No		Custody Seal No.	<i>Handwritten Signature</i> Date/Time: 5-15-23 11:20 Company: ELLE					Cooler Temperature (°C) and Other Remarks:					

HC

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Cash in Advance (Lancaster)

Job Number: 410-126654-1

Login Number: 126654

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Arroyo, Haley

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
Cooler Temperature is recorded.	N/A	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	N/A	Non-environmental matrix, sampler is not applicable.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $>6\text{mm}$ in diameter (none, if from WV)?	N/A	