

ANALYTICAL REPORT

PREPARED FOR

Attn: Report To
Watersavers Turf
4316 Redwood Hwy
Ste. 100
San Rafael, California 94903

Generated 1/8/2024 6:08:11 AM

JOB DESCRIPTION

Sequoia / Sequoia Lite

JOB NUMBER

410-153257-1

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



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Authorized for release by
Nicole Brown, Project Manager
Nicole.Brown@et.eurofinsus.com
(717)471-3265

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: Sequoia / Sequoia Lite

Job ID: 410-153257-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
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: Sequoia / Sequoia Lite

Job ID: 410-153257-1

Job ID: 410-153257-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-153257-1

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 12/4/2023 9:05 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

PFAS

Method PFC_IDA: The non-extracted internal standard is outside acceptance criteria in the method blank associated with the following samples: S Blade 66/S Blade 90 (410-153257-1). All labeled isotopes were within QC acceptance criteria and the data is reported.

The sample injection standard peak areas in the following sample: S Blade 66/S Blade 90 (410-153257-1) are outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

The recovery for the labeled isotope(s) in the following sample: S Blade 66/S Blade 90 (410-153257-1) is outside the QC acceptance limits due to the matrix of the sample.

Method PFC_IDA: The recovery for target analyte(s) R-PSDA and Hydrolyzed PSDA in the laboratory control spike sample associated with the following sample: S Blade 66/S Blade 90 (410-153257-1) is outside the QC acceptance limits. Since the limits are considered advisory, the data is reported.

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: Sequoia / Sequoia Lite

Job ID: 410-153257-1

Client Sample ID: S Blade 66/S Blade 90

Lab Sample ID: 410-153257-1

No Detections.

1

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This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Watersavers Turf
Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

Client Sample ID: S Blade 66/S Blade 90

Lab Sample ID: 410-153257-1

Date Collected: 12/03/23 00:00

Matrix: Solid

Date Received: 12/04/23 09:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NVHOS	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
PES	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
10:2 FTS	ND	cn	2.0	0.60	ng/g		12/27/23 09:01	01/03/24 18:23	1
PMPA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
HFPODA	ND	cn	2.0	1.0	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoro-3,6-dioxaheptanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorooctadecanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
NEtFOSE	ND	cn	2.0	0.50	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorooctanesulfonic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoroundecanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
NMeFOSAA	ND	cn	2.0	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
R-PSDA	ND	*- cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Hydrolyzed PSDA	ND	*- cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
R-PSDCA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
R-EVE	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
NMeFOSE	ND	cn	2.0	0.50	ng/g		12/27/23 09:01	01/03/24 18:23	1
PEPA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoropentanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoropentanesulfonic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
6:2 Fluorotelomer sulfonic acid	ND	cn	2.0	0.60	ng/g		12/27/23 09:01	01/03/24 18:23	1
8:2 FTCA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
PS Acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
NEtFOSAA	ND	cn	2.0	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorohexanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorododecanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
NMeFOSA	ND	cn	2.0	0.50	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorooctanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorodecanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorodecanesulfonic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorohexanesulfonic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
3:3 FTCA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorobutanoic acid	ND	cn	2.0	0.80	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorobutanesulfonic acid	ND	cn	2.0	0.40	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoroheptanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoroheptanesulfonic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorononanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorotetradecanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoro-3-methoxypropanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
8:2 Fluorotelomer sulfonic acid	ND	cn	3.0	0.60	ng/g		12/27/23 09:01	01/03/24 18:23	1
PFO2HxA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
PFO3OA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
PFO4DA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoro-3,5,7,9,11-pentaaxadodecanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
NEtFOSA	ND	cn	2.0	0.50	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoropropionic acid	ND	cn	5.0	2.0	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoropropanesulfonic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
6:2 FTCA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Watersavers Turf
Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

Client Sample ID: S Blade 66/S Blade 90

Lab Sample ID: 410-153257-1

Date Collected: 12/03/23 00:00

Matrix: Solid

Date Received: 12/04/23 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTCA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
PFMOAA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorohexadecanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorononanesulfonic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
EVE Acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
8:2 FTUCA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
6:2 FTUCA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
10:2 FTUCA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorotridecanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Hydro-PS Acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorooctanesulfonamide	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
9Cl-PF3ONS	ND	cn	2.0	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
4:2 Fluorotelomer sulfonic acid	ND	cn	2.0	0.60	ng/g		12/27/23 09:01	01/03/24 18:23	1
11Cl-PF3OUdS	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Hydro-EVE Acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluorododecanesulfonic acid	ND	cn	2.0	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoro-4-isopropoxybutanoic acid	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
7:3 FTCA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
Perfluoro(4-methoxybutanoic acid)	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
5:3 FTCA	ND	cn	0.60	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	cn	3.0	0.20	ng/g		12/27/23 09:01	01/03/24 18:23	1
MTP	ND	cn	0.60	0.30	ng/g		12/27/23 09:01	01/03/24 18:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	149	cn	10 - 186				12/27/23 09:01	01/03/24 18:23	1
d3-NMeFOSAA	141	cn	10 - 173				12/27/23 09:01	01/03/24 18:23	1
13C3 HFPO-DA	75	cn	14 - 156				12/27/23 09:01	01/03/24 18:23	1
d7-N-MeFOSE-M	118	cn	10 - 169				12/27/23 09:01	01/03/24 18:23	1
d9-N-EtFOSE-M	124	cn	10 - 173				12/27/23 09:01	01/03/24 18:23	1
M2-6:2 FTS	267	*5+ cn	10 - 200				12/27/23 09:01	01/03/24 18:23	1
M2-8:2 FTS	199	cn	10 - 200				12/27/23 09:01	01/03/24 18:23	1
13C3 PFBS	119	cn	30 - 170				12/27/23 09:01	01/03/24 18:23	1
M2-4:2 FTS	350	*5+ cn	10 - 200				12/27/23 09:01	01/03/24 18:23	1
13C5 PFHxA	106	cn	16 - 167				12/27/23 09:01	01/03/24 18:23	1
13C9 PFNA	155	cn	26 - 171				12/27/23 09:01	01/03/24 18:23	1
13C6 PFDA	119	cn	25 - 160				12/27/23 09:01	01/03/24 18:23	1
13C7 PFUnA	108	cn	15 - 172				12/27/23 09:01	01/03/24 18:23	1
13C3 PFHxS	90	cn	35 - 166				12/27/23 09:01	01/03/24 18:23	1
13C2-PFDoDA	107	cn	10 - 171				12/27/23 09:01	01/03/24 18:23	1
d5-NEtPFOSA	99	cn	10 - 168				12/27/23 09:01	01/03/24 18:23	1
d3-NMePFOSA	101	cn	10 - 154				12/27/23 09:01	01/03/24 18:23	1
13C2-2-Perfluorohexylethanoic acid	128	cn	10 - 200				12/27/23 09:01	01/03/24 18:23	1
13C2-2-Perfluorooctylethanoic acid	135	cn	10 - 200				12/27/23 09:01	01/03/24 18:23	1
13C2-2-Perfluorodecylethanoic acid	138	cn	10 - 200				12/27/23 09:01	01/03/24 18:23	1
13C2-2H-Perfluoro-2-octenoic acid	130	cn	10 - 163				12/27/23 09:01	01/03/24 18:23	1
13C2-2H-Perfluoro-2-decenoic acid	154	cn	10 - 168				12/27/23 09:01	01/03/24 18:23	1
13C2-2H-Perfluoro-2-dodecenoic acid	152	cn	10 - 170				12/27/23 09:01	01/03/24 18:23	1
13C4 PFBA	114	cn	24 - 159				12/27/23 09:01	01/03/24 18:23	1
13C5 PFPeA	138	cn	15 - 167				12/27/23 09:01	01/03/24 18:23	1

Client Sample Results

Client: Watersavers Turf
Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

Client Sample ID: S Blade 66/S Blade 90

Lab Sample ID: 410-153257-1

Date Collected: 12/03/23 00:00

Matrix: Solid

Date Received: 12/04/23 09:05

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFHpA	101	cn	20 - 166	12/27/23 09:01	01/03/24 18:23	1
13C8 PFOA	116	cn	22 - 162	12/27/23 09:01	01/03/24 18:23	1
13C8 PFOS	109	cn	39 - 162	12/27/23 09:01	01/03/24 18:23	1
13C8 FOSA	93	cn	10 - 160	12/27/23 09:01	01/03/24 18:23	1
13C2 PFTeDA	101	cn	10 - 180	12/27/23 09:01	01/03/24 18:23	1
13C3-PFPPrA	122	cn	10 - 160	12/27/23 09:01	01/03/24 18:23	1

Isotope Dilution Summary

Client: Watersavers Turf
Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

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	d5NEFOS (10-186)	d3NMFOS (10-173)	HFPODA (14-156)	NMFm (10-169)	NEFM (10-173)	M262FTS (10-200)	M282FTS (10-200)	C3PFBS (30-170)
410-153257-1	S Blade 66/S Blade 90	149 cn	141 cn	75 cn	118 cn	124 cn	267 *5+ cn	199 cn	119 cn
LCS 410-457774/2-B	Lab Control Sample	103	98	79	95	85	116	118	110
MB 410-457774/1-B	Method Blank	107	100	82	96	94	140	139	112
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	13C5PHA (16-167)	C9PFNA (26-171)	C6PFDA (25-160)	13C7PUA (15-172)	C3PFHS (35-166)	PFD _o DA (10-171)	d5NPFSA (10-168)
410-153257-1	S Blade 66/S Blade 90	350 *5+ cn	106 cn	155 cn	119 cn	108 cn	90 cn	107 cn	99 cn
LCS 410-457774/2-B	Lab Control Sample	86	93	104	102	108	102	100	78
MB 410-457774/1-B	Method Blank	95	97	111	110	112	108	105	88
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d3NMFSA (10-154)	MFHEA (10-200)	MFOEA (10-200)	MFDEA (10-200)	MFHUEA (10-163)	MFOUEA (10-168)	MFDUEA (10-170)	PFBA (24-159)
410-153257-1	S Blade 66/S Blade 90	101 cn	128 cn	135 cn	138 cn	130 cn	154 cn	152 cn	114 cn
LCS 410-457774/2-B	Lab Control Sample	87	85	86	86	86	92	89	99
MB 410-457774/1-B	Method Blank	88	90	90	93	93	101	98	101
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFPeA (15-167)	C4PFHA (20-166)	C8PFOA (22-162)	C8PFOS (39-162)	PFOSA (10-160)	PFTDA (10-180)	13C3PFPrA (10-160)	
410-153257-1	S Blade 66/S Blade 90	138 cn	101 cn	116 cn	109 cn	93 cn	101 cn	122 cn	
LCS 410-457774/2-B	Lab Control Sample	101	83	106	101	100	96	111	
MB 410-457774/1-B	Method Blank	100	91	109	102	105	98	119	

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
d3NMFOS = d3-NMeFOSAA
HFPODA = 13C3 HFPO-DA
NMFm = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
C3PFBS = 13C3 PFBS
M242FTS = M2-4:2 FTS
13C5PHA = 13C5 PFHxA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
C3PFHS = 13C3 PFHxS
PFD_oDA = 13C2-PFD_oDA
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
MFHEA = 13C2-2-Perfluorohexylethanoic acid
MFOEA = 13C2-2-Perfluorooctylethanoic acid
MFDEA = 13C2-2-Perfluorodecylethanoic acid
MFHUEA = 13C2-2H-Perfluoro-2-octenoic acid
MFOUEA = 13C2-2H-Perfluoro-2-decenoic acid
MFDUEA = 13C2-2H-Perfluoro-2-dodecenoic acid
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA

Isotope Dilution Summary

Client: Watersavers Turf
Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C8PFOS = 13C8 PFOS
- PFOSA = 13C8 FOSA
- PFTDA = 13C2 PFTeDA
- 13C3PFPrA = 13C3-PFPrA

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QC Sample Results

Client: Watersavers Turf
Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-457774/1-B
Matrix: Solid
Analysis Batch: 459204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457774

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
NVHOS	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
PES	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
10:2 FTS	ND		2.0	0.60	ng/g		12/27/23 09:01	01/02/24 09:06	1
PMPA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
HFPODA	ND		2.0	1.0	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoro-4-ethylcyclohexanesulfonic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoro-3,6-dioxaheptanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorooctadecanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
NEtFOSE	ND		2.0	0.50	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorooctanesulfonic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoroundecanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
NMeFOSAA	ND		2.0	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
R-PSDA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Hydrolyzed PSDA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
R-PSDCA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
R-EVE	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
NMeFOSE	ND		2.0	0.50	ng/g		12/27/23 09:01	01/02/24 09:06	1
PEPA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoropentanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoropentanesulfonic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
6:2 Fluorotelomer sulfonic acid	ND		2.0	0.60	ng/g		12/27/23 09:01	01/02/24 09:06	1
8:2 FTCA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
PS Acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
NEtFOSAA	ND		2.0	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorohexanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorododecanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
NMeFOSA	ND		2.0	0.50	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorooctanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorodecanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorodecanesulfonic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorohexanesulfonic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
3:3 FTCA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorobutanoic acid	ND		2.0	0.80	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorobutanesulfonic acid	ND		2.0	0.40	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoroheptanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoroheptanesulfonic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorononanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorotetradecanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoro-3-methoxypropanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
8:2 Fluorotelomer sulfonic acid	ND		3.0	0.60	ng/g		12/27/23 09:01	01/02/24 09:06	1
PFO2HxA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
PFO3OA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
PFO4DA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoro-3,5,7,9,11-pentaoxidodecanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
NEtFOSA	ND		2.0	0.50	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoropropionic acid	ND		5.0	2.0	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoropropanesulfonic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Watersavers Turf
Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

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

Lab Sample ID: MB 410-457774/1-B

Matrix: Solid

Analysis Batch: 459204

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 457774

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
6:2 FTCA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
10:2 FTCA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
PFMOAA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorohexadecanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorononanesulfonic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
EVE Acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
8:2 FTUCA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
6:2 FTUCA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
10:2 FTUCA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorotridecanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Hydro-PS Acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorooctanesulfonamide	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
9Cl-PF3ONS	ND		2.0	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.60	ng/g		12/27/23 09:01	01/02/24 09:06	1
11Cl-PF3OUdS	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Hydro-EVE Acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluorododecanesulfonic acid	ND		2.0	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoro-4-isopropoxybutanoic acid	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
7:3 FTCA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
Perfluoro(4-methoxybutanoic acid)	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
5:3 FTCA	ND		0.60	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		3.0	0.20	ng/g		12/27/23 09:01	01/02/24 09:06	1
MTP	ND		0.60	0.30	ng/g		12/27/23 09:01	01/02/24 09:06	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	107		10 - 186	12/27/23 09:01	01/02/24 09:06	1
d3-NMeFOSAA	100		10 - 173	12/27/23 09:01	01/02/24 09:06	1
13C3 HFPO-DA	82		14 - 156	12/27/23 09:01	01/02/24 09:06	1
d7-N-MeFOSE-M	96		10 - 169	12/27/23 09:01	01/02/24 09:06	1
d9-N-EtFOSE-M	94		10 - 173	12/27/23 09:01	01/02/24 09:06	1
M2-6:2 FTS	140		10 - 200	12/27/23 09:01	01/02/24 09:06	1
M2-8:2 FTS	139		10 - 200	12/27/23 09:01	01/02/24 09:06	1
13C3 PFBS	112		30 - 170	12/27/23 09:01	01/02/24 09:06	1
M2-4:2 FTS	95		10 - 200	12/27/23 09:01	01/02/24 09:06	1
13C5 PFHxA	97		16 - 167	12/27/23 09:01	01/02/24 09:06	1
13C9 PFNA	111		26 - 171	12/27/23 09:01	01/02/24 09:06	1
13C6 PFDA	110		25 - 160	12/27/23 09:01	01/02/24 09:06	1
13C7 PFUnA	112		15 - 172	12/27/23 09:01	01/02/24 09:06	1
13C3 PFHxS	108		35 - 166	12/27/23 09:01	01/02/24 09:06	1
13C2-PFDoDA	105		10 - 171	12/27/23 09:01	01/02/24 09:06	1
d5-NEtPFOSA	88		10 - 168	12/27/23 09:01	01/02/24 09:06	1
d3-NMePFOSA	88		10 - 154	12/27/23 09:01	01/02/24 09:06	1
13C2-2-Perfluorohexylethanoic acid	90		10 - 200	12/27/23 09:01	01/02/24 09:06	1
13C2-2-Perfluorooctylethanoic acid	90		10 - 200	12/27/23 09:01	01/02/24 09:06	1
13C2-2-Perfluorodecylethanoic acid	93		10 - 200	12/27/23 09:01	01/02/24 09:06	1
13C2-2H-Perfluoro-2-octenoic acid	93		10 - 163	12/27/23 09:01	01/02/24 09:06	1
13C2-2H-Perfluoro-2-decenoic acid	101		10 - 168	12/27/23 09:01	01/02/24 09:06	1

QC Sample Results

Client: Watersavers Turf
Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

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

Lab Sample ID: MB 410-457774/1-B

Matrix: Solid

Analysis Batch: 459204

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 457774

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-2H-Perfluoro-2-dodecenoic acid	98		10 - 170	12/27/23 09:01	01/02/24 09:06	1
13C4 PFBA	101		24 - 159	12/27/23 09:01	01/02/24 09:06	1
13C5 PFPeA	100		15 - 167	12/27/23 09:01	01/02/24 09:06	1
13C4 PFHpA	91		20 - 166	12/27/23 09:01	01/02/24 09:06	1
13C8 PFOA	109		22 - 162	12/27/23 09:01	01/02/24 09:06	1
13C8 PFOS	102		39 - 162	12/27/23 09:01	01/02/24 09:06	1
13C8 FOSA	105		10 - 160	12/27/23 09:01	01/02/24 09:06	1
13C2 PFTeDA	98		10 - 180	12/27/23 09:01	01/02/24 09:06	1
13C3-PFPPrA	119		10 - 160	12/27/23 09:01	01/02/24 09:06	1

Lab Sample ID: LCS 410-457774/2-B

Matrix: Solid

Analysis Batch: 459204

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 457774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
NVHOS	25.0	20.2		ng/g		81	49 - 130
PES	22.3	17.7		ng/g		80	56 - 130
10:2 FTS	24.1	21.5		ng/g		89	43 - 139
PMPA	25.0	22.8		ng/g		91	49 - 130
HFPODA	25.0	23.8		ng/g		95	45 - 130
Perfluoro-4-ethylcyclohexanesulfonic acid	23.1	18.8		ng/g		82	59 - 130
Perfluoro-3,6-dioxaheptanoic acid	25.0	20.1		ng/g		80	44 - 130
Perfluorooctadecanoic acid	25.0	19.9		ng/g		80	30 - 137
NEtFOSE	25.0	21.8		ng/g		87	60 - 130
Perfluorooctanesulfonic acid	23.1	19.6		ng/g		85	57 - 130
Perfluoroundecanoic acid	25.0	20.0		ng/g		80	59 - 130
NMeFOSAA	25.0	20.7		ng/g		83	60 - 130
R-PSDA	25.0	ND	*-	ng/g		0.2	10 - 142
Hydrolyzed PSDA	25.0	0.255	J *-	ng/g		1	10 - 152
R-PSDCA	25.0	19.6		ng/g		78	59 - 130
R-EVE	25.0	20.8		ng/g		83	10 - 151
NMeFOSE	25.0	21.8		ng/g		87	59 - 130
PEPA	25.0	20.1		ng/g		80	36 - 130
Perfluoropentanoic acid	25.0	22.3		ng/g		89	58 - 130
Perfluoropentanesulfonic acid	23.5	20.0		ng/g		85	62 - 130
6:2 Fluorotelomer sulfonic acid	23.7	20.3		ng/g		86	58 - 130
8:2 FTCA	25.0	17.9		ng/g		72	45 - 130
PS Acid	25.0	20.2		ng/g		81	10 - 155
NEtFOSAA	25.0	19.2		ng/g		77	58 - 130
Perfluorohexanoic acid	25.0	21.0		ng/g		84	56 - 130
Perfluorododecanoic acid	25.0	20.4		ng/g		82	59 - 130
NMeFOSA	25.0	21.7		ng/g		87	47 - 151
Perfluorooctanoic acid	25.0	19.5		ng/g		78	56 - 130
Perfluorodecanoic acid	25.0	20.7		ng/g		83	59 - 130
Perfluorodecanesulfonic acid	24.1	19.5		ng/g		81	57 - 130
Perfluorohexanesulfonic acid	22.8	18.2		ng/g		80	60 - 130
3:3 FTCA	25.0	20.1		ng/g		80	10 - 130

QC Sample Results

Client: Watersavers Turf
Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

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

Lab Sample ID: LCS 410-457774/2-B

Matrix: Solid

Analysis Batch: 459204

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 457774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	25.0	22.2		ng/g		89	56 - 130
Perfluorobutanesulfonic acid	22.1	18.3		ng/g		83	61 - 130
Perfluoroheptanoic acid	25.0	22.4		ng/g		90	61 - 130
Perfluoroheptanesulfonic acid	23.8	19.6		ng/g		82	61 - 130
Perfluorononanoic acid	25.0	21.5		ng/g		86	62 - 130
Perfluorotetradecanoic acid	25.0	22.7		ng/g		91	58 - 130
Perfluoro-3-methoxypropanoic acid	25.0	21.4		ng/g		86	45 - 136
8:2 Fluorotelomer sulfonic acid	24.0	22.0		ng/g		92	55 - 130
PFO2HxA	25.0	20.5		ng/g		82	47 - 130
PFO3OA	25.0	20.7		ng/g		83	49 - 131
PFO4DA	25.0	19.7		ng/g		79	43 - 135
Perfluoro-3,5,7,9,11-pentaoxado decanoic acid	25.0	25.3		ng/g		101	47 - 132
NETFOSA	25.0	22.5		ng/g		90	63 - 130
Perfluoroproprionic acid	25.0	20.3		ng/g		81	34 - 143
Perfluoropropanesulfonic acid	22.9	18.2		ng/g		79	52 - 142
6:2 FTCA	25.0	18.2		ng/g		73	43 - 130
10:2 FTCA	25.0	18.9		ng/g		76	42 - 130
PFMOAA	25.0	21.6		ng/g		86	31 - 139
Perfluorohexadecanoic acid	25.0	22.1		ng/g		88	44 - 130
Perfluorononanesulfonic acid	24.0	21.1		ng/g		88	58 - 130
EVE Acid	25.0	22.2		ng/g		89	10 - 180
8:2 FTUCA	25.0	26.1		ng/g		104	60 - 136
6:2 FTUCA	25.0	24.9		ng/g		100	54 - 146
10:2 FTUCA	25.0	26.3		ng/g		105	56 - 140
Perfluorotridecanoic acid	25.0	21.5		ng/g		86	56 - 130
Hydro-PS Acid	25.0	21.0		ng/g		84	55 - 130
Perfluorooctanesulfonamide	25.0	23.2		ng/g		93	61 - 130
9Cl-PF3ONS	23.3	18.8		ng/g		81	60 - 130
4:2 Fluorotelomer sulfonic acid	23.4	21.5		ng/g		92	60 - 130
11Cl-PF3OUdS	23.3	19.5		ng/g		84	59 - 130
Hydro-EVE Acid	25.0	21.7		ng/g		87	48 - 133
Perfluorododecanesulfonic acid	24.2	18.2		ng/g		75	51 - 130
Perfluoro-4-isopropoxybutanoic acid	25.0	20.3		ng/g		81	50 - 146
7:3 FTCA	25.0	25.9		ng/g		104	10 - 152
Perfluoro(4-methoxybutanoic acid)	25.0	19.8		ng/g		79	45 - 130
5:3 FTCA	25.0	23.7		ng/g		95	10 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	23.6	22.9		ng/g		97	60 - 130
MTP	25.0	24.9		ng/g		100	10 - 193

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	103		10 - 186
d3-NMeFOSAA	98		10 - 173
13C3 HFPO-DA	79		14 - 156
d7-N-MeFOSE-M	95		10 - 169
d9-N-EtFOSE-M	85		10 - 173

QC Sample Results

Client: Watersavers Turf
Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

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

Lab Sample ID: LCS 410-457774/2-B

Matrix: Solid

Analysis Batch: 459204

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 457774

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-6:2 FTS	116		10 - 200
M2-8:2 FTS	118		10 - 200
13C3 PFBS	110		30 - 170
M2-4:2 FTS	86		10 - 200
13C5 PFHxA	93		16 - 167
13C9 PFNA	104		26 - 171
13C6 PFDA	102		25 - 160
13C7 PFUnA	108		15 - 172
13C3 PFHxS	102		35 - 166
13C2-PFDoDA	100		10 - 171
d5-NEtPFOSA	78		10 - 168
d3-NMePFOSA	87		10 - 154
13C2-2-Perfluorohexylethanoic acid	85		10 - 200
13C2-2-Perfluorooctylethanoic acid	86		10 - 200
13C2-2-Perfluorodecylethanoic acid	86		10 - 200
13C2-2H-Perfluoro-2-octenoic acid	86		10 - 163
13C2-2H-Perfluoro-2-decenoic acid	92		10 - 168
13C2-2H-Perfluoro-2-dodecenoic acid	89		10 - 170
13C4 PFBA	99		24 - 159
13C5 PFPeA	101		15 - 167
13C4 PFHpA	83		20 - 166
13C8 PFOA	106		22 - 162
13C8 PFOS	101		39 - 162
13C8 FOSA	100		10 - 160
13C2 PFTeDA	96		10 - 180
13C3-PFPPrA	111		10 - 160

QC Association Summary

Client: Watersavers Turf
Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

LCMS

Prep Batch: 457774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-153257-1 - RA	S Blade 66/S Blade 90	Total/NA	Solid	537 (mod)	
410-153257-1	S Blade 66/S Blade 90	Total/NA	Solid	537 (mod)	
MB 410-457774/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-457774/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 457822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-153257-1 - RA	S Blade 66/S Blade 90	Total/NA	Solid	Extract Aliquot	457774
410-153257-1	S Blade 66/S Blade 90	Total/NA	Solid	Extract Aliquot	457774
MB 410-457774/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	457774
LCS 410-457774/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	457774

Analysis Batch: 459204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-153257-1 - RA	S Blade 66/S Blade 90	Total/NA	Solid	537 IDA	457822
MB 410-457774/1-B	Method Blank	Total/NA	Solid	537 IDA	457822
LCS 410-457774/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	457822

Analysis Batch: 459744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-153257-1	S Blade 66/S Blade 90	Total/NA	Solid	537 IDA	457822

Lab Chronicle

Client: Watersavers Turf
 Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

Client Sample ID: S Blade 66/S Blade 90

Lab Sample ID: 410-153257-1

Date Collected: 12/03/23 00:00

Matrix: Solid

Date Received: 12/04/23 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)	RA		457774	UFD4	ELLE	12/27/23 09:01
Total/NA	Cleanup	Extract Aliquot	RA		457822	UFD4	ELLE	12/27/23 09:56
Total/NA	Analysis	537 IDA	RA	1	459204	R7RE	ELLE	01/02/24 10:14
Total/NA	Prep	537 (mod)			457774	UFD4	ELLE	12/27/23 09:01
Total/NA	Cleanup	Extract Aliquot			457822	UFD4	ELLE	12/27/23 09:56
Total/NA	Analysis	537 IDA		1	459744	DQV6	ELLE	01/03/24 18:23

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: Sequoia / Sequoia Lite

Job ID: 410-153257-1

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	06-30-24
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	01-31-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
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	06-30-24
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-24
Kentucky (UST)	State	0001.01	11-30-24
Louisiana (All)	NELAP	02055	06-30-24
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
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-24
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-24
Quebec Ministry of Environment and Fight against Climate Change	PALA	1978	09-16-24
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24
West Virginia DEP	State	055	07-31-24
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Watersavers Turf
Project/Site: Sequoia / Sequoia Lite

Job ID: 410-153257-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency
None = None

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: Sequoia / Sequoia Lite

Job ID: 410-153257-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-153257-1	S Blade 66/S Blade 90	Solid	12/03/23 00:00	12/04/23 09:05

1

2

3

4

5

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Login Sample Receipt Checklist

Client: Cash in Advance (Lancaster)

Job Number: 410-153257-1

Login Number: 153257

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Foreman, Leah M

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 acceptable, where thermal pres is required (<=6C, not frozen).	True	
Cooler Temperature is recorded.	N/A	
WV: Container Temp acceptable, where thermal pres is required (<=6C, 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.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	Refer to Job Narrative for details.
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?	False	Non-environmental matrix, sampler is not applicable.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	