



ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/29/2023 9:43:34 AM Revision 1

JOB DESCRIPTION

Universal Play

JOB NUMBER

410-153246-1

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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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.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.





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Definitions/Glossary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-153246-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
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: 410-153246-1

Job ID: 410-153246-1

Eurofins Lancaster Laboratories Environment

**Job Narrative
410-153246-1**

REVISION

The report being provided is a revision of the original report sent on 12/21/2023. The report (revision 1) is being revised due to the client request to update the job name and cover sheet to have Watersavers Turf as the report to.

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.

Receipt Exceptions

No sample ID or collection info on coc or sample.

GC/MS Semi VOA

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: 410-153246-1

Client Sample ID: Artificial Grass Product

Lab Sample ID: 410-153246-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	14	J	33	6.6	ug/Kg	1		8270E	Total/NA

- 1
- 2
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- 14
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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: Universal Play

Job ID: 410-153246-1

Client Sample ID: Artificial Grass Product

Lab Sample ID: 410-153246-1

Date Collected: 12/03/23 00:00

Matrix: Solid

Date Received: 12/04/23 09:05

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		33	6.6	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Acenaphthylene	ND		33	7.9	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Anthracene	ND		33	6.6	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Benzo[a]anthracene	ND		33	6.6	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Benzo[a]pyrene	ND		33	6.6	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Benzo[b]fluoranthene	ND		33	6.6	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Benzo[g,h,i]perylene	ND		33	6.6	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Benzo[k]fluoranthene	ND		33	6.6	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Chrysene	ND		33	6.6	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Dibenz(a,h)anthracene	ND		33	13	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Fluoranthene	ND		33	6.6	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Fluorene	14	J	33	6.6	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Indeno[1,2,3-cd]pyrene	ND		33	7.9	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Naphthalene	ND		33	13	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Phenanthrene	ND		33	7.9	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Pyrene	ND		33	6.6	ug/Kg		12/10/23 12:30	12/12/23 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		37 - 120				12/10/23 12:30	12/12/23 01:36	1
Nitrobenzene-d5 (Surr)	67		26 - 120				12/10/23 12:30	12/12/23 01:36	1
p-Terphenyl-d14 (Surr)	63		40 - 133				12/10/23 12:30	12/12/23 01:36	1

Surrogate Summary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-153246-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	NBZ	TPHd14			
		(37-120)	(26-120)	(40-133)			
410-153246-1	S Blade 66	61	67	63			
LCS 410-452151/2-A	Lab Control Sample	82	82	83			
MB 410-452151/1-A	Method Blank	86	80	91			

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-153246-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-452151/1-A
Matrix: Solid
Analysis Batch: 452343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 452151

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		17	3.3	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Acenaphthylene	ND		17	4.0	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Anthracene	ND		17	3.3	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Benzo[a]anthracene	ND		17	3.3	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Benzo[a]pyrene	ND		17	3.3	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Benzo[b]fluoranthene	ND		17	3.3	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Benzo[g,h,i]perylene	ND		17	3.3	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Benzo[k]fluoranthene	ND		17	3.3	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Chrysene	ND		17	3.3	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Dibenz(a,h)anthracene	ND		17	6.7	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Fluoranthene	ND		17	3.3	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Fluorene	ND		17	3.3	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Indeno[1,2,3-cd]pyrene	ND		17	4.0	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Naphthalene	ND		17	6.7	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Phenanthrene	ND		17	4.0	ug/Kg		12/10/23 12:30	12/11/23 11:09	1
Pyrene	ND		17	3.3	ug/Kg		12/10/23 12:30	12/11/23 11:09	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	86		37 - 120	12/10/23 12:30	12/11/23 11:09	1
Nitrobenzene-d5 (Surr)	80		26 - 120	12/10/23 12:30	12/11/23 11:09	1
p-Terphenyl-d14 (Surr)	91		40 - 133	12/10/23 12:30	12/11/23 11:09	1

Lab Sample ID: LCS 410-452151/2-A
Matrix: Solid
Analysis Batch: 452343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452151

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Acenaphthene	1670	1390		ug/Kg		83	65 - 120
Acenaphthylene	1670	1330		ug/Kg		80	66 - 120
Anthracene	1670	1400		ug/Kg		84	69 - 120
Benzo[a]anthracene	1670	1360		ug/Kg		82	68 - 120
Benzo[a]pyrene	1670	1440		ug/Kg		86	71 - 120
Benzo[b]fluoranthene	1670	1310		ug/Kg		79	66 - 120
Benzo[g,h,i]perylene	1670	1460		ug/Kg		88	69 - 120
Benzo[k]fluoranthene	1670	1550		ug/Kg		93	68 - 120
Chrysene	1670	1330		ug/Kg		80	67 - 120
Dibenz(a,h)anthracene	1670	1460		ug/Kg		88	70 - 123
Fluoranthene	1670	1330		ug/Kg		80	67 - 120
Fluorene	1670	1350		ug/Kg		81	67 - 120
Indeno[1,2,3-cd]pyrene	1670	1530		ug/Kg		92	67 - 122
Naphthalene	1670	1240		ug/Kg		74	62 - 120
Phenanthrene	1670	1390		ug/Kg		84	69 - 120
Pyrene	1670	1410		ug/Kg		84	69 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	82		37 - 120
Nitrobenzene-d5 (Surr)	82		26 - 120
p-Terphenyl-d14 (Surr)	83		40 - 133

QC Association Summary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-153246-1

GC/MS Semi VOA

Prep Batch: 452151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-153246-1	S Blade 66	Total/NA	Solid	3546	
MB 410-452151/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-452151/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 452343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-452151/1-A	Method Blank	Total/NA	Solid	8270E	452151
LCS 410-452151/2-A	Lab Control Sample	Total/NA	Solid	8270E	452151

Analysis Batch: 452677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-153246-1	S Blade 66	Total/NA	Solid	8270E	452151

Lab Chronicle

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-153246-1

Client Sample ID: Artificial Grass Product

Lab Sample ID: 410-153246-1

Date Collected: 12/03/23 00:00

Matrix: Solid

Date Received: 12/04/23 09:05

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	3546			452151	PQ6J	ELLE	12/10/23 12:30
Total/NA	Analysis	8270E		1	452677	P7EB	ELLE	12/12/23 01:36

Laboratory References:

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

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Accreditation/Certification Summary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-153246-1

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 (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	06-30-24
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
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
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 Carolina (WW/SW)	State	521	12-31-23
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
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	08-31-24
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

Accreditation/Certification Summary

Client: Watersavers Turf
Project/Site: Universal Play

Job ID: 410-153246-1

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 (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-24
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: 410-153246-1

Method	Method Description	Protocol	Laboratory
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE

Protocol References:

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: 410-153246-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-153246-1	S Blade 66	Solid	12/03/23 00:00	12/04/23 09:05

1

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Login Sample Receipt Checklist

Client: Cash in Advance (Lancaster)

Job Number: 410-153246-1

Login Number: 153246

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Hartlove, Katie 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 ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
Cooler Temperature is recorded.	N/A	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, 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.	False	Refer to Job Narrative for details.
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?	False	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	