

ANALYTICAL REPORT

Eurofins Environment Testing Philadelphia, LLC
213 Witmer Road
Horsham, PA 19044-0962
Tel: (215)355-3900

Laboratory Job ID: 630-32764-1

Client Project/Site: SSLF Monthly Leachate - VOC
Sampling Event: Monthly LeachateGrab

For:

Cape May County Municipal Utilities Auth
1523 U.S. Route 9 North
PO BOX 610
Cape May Court House, New Jersey 08210

Attn: Michael M Frisko



Authorized for release by:
5/10/2022 11:07:22 AM

Erin Dougherty, Project Administrator
(215)355-3900
Erin.Dougherty@et.eurofinsus.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.





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 data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically “SAFE” if no coliform bacteria are detected. To be considered “SAFE” your report should indicate “<1 cfu/100mL” or “NEG” for the coliform test. If you report indicates a positive result “POS” or a value greater than or equal to one, then your supply is “UNSAFE FOR DRINKING” contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as “grab” samples unless otherwise identified.

· Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins’ online data portal “TotalAccess” will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Erin Dougherty

Project Administrator

5/10/2022 11:07:22 AM

Case Narrative

Client: Cape May County Municipal Utilities Auth
Project/Site: SSLF Monthly Leachate - VOC

Job ID: 630-32764-1



Job ID: 630-32764-1

Laboratory: Eurofins Environment Testing Philadelphia, LLC

Narrative

**Job Narrative
630-32764-1**

Receipt

The sample was received on 5/5/2022 3:10 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

GC/MS VOA

Method 624.1_PREC: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: SSLF22-05 LEACHATE GRAB (630-32764-1). Elevated reporting limits (RLs) are provided.

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

Sample Summary

Client: Cape May County Municipal Utilities Auth
Project/Site: SSLF Monthly Leachate - VOC

Job ID: 630-32764-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-32764-1	SSLF22-05 LEACHATE GRAB	Leachate	05/05/22 08:31	05/05/22 15:10

- 1
- 2
- 3
- 4
- 5
- 6
- 7

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: SSLF Monthly Leachate - VOC

Job ID: 630-32764-1

Client Sample ID: SSLF22-05 LEACHATE GRAB

Lab Sample ID: 630-32764-1

Date Collected: 05/05/22 08:31

Matrix: Leachate

Date Received: 05/05/22 15:10

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	ND		50	10	ug/L		05/06/22 21:16	50	UJML
1,1,1,2-Tetrachloroethane	ND		50	10	ug/L		05/06/22 21:16	50	UJML
1,1,2-Trichloroethane	ND		50	10	ug/L		05/06/22 21:16	50	UJML
1,1-Dichloroethane	ND		50	10	ug/L		05/06/22 21:16	50	UJML
1,1-Dichloroethene	ND		50	10	ug/L		05/06/22 21:16	50	UJML
1,2-Dichloroethane	ND		50	15	ug/L		05/06/22 21:16	50	UJML
1,2-Dichloropropane	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Benzene	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Bromodichloromethane	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Bromoform	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Bromomethane	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Carbon tetrachloride	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Chlorobenzene	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Chloroethane	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Chloroform	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Chloromethane	ND		50	15	ug/L		05/06/22 21:16	50	UJML
cis-1,2-Dichloroethene	650		50	10	ug/L		05/06/22 21:16	50	UJML
cis-1,3-Dichloropropene	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Dibromochloromethane	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Ethylbenzene	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Methylene Chloride	ND		50	15	ug/L		05/06/22 21:16	50	UJML
Toluene	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Tetrachloroethene	ND		50	15	ug/L		05/06/22 21:16	50	UJML
trans-1,2-Dichloroethene	ND		50	10	ug/L		05/06/22 21:16	50	UJML
trans-1,3-Dichloropropene	ND		50	5.0	ug/L		05/06/22 21:16	50	UJML
Trichloroethene	380		50	10	ug/L		05/06/22 21:16	50	UJML
Trichlorofluoromethane	ND		50	15	ug/L		05/06/22 21:16	50	UJML
Vinyl chloride	ND		50	15	ug/L		05/06/22 21:16	50	UJML
Xylenes, Total	ND		50	10	ug/L		05/06/22 21:16	50	UJML
Acrolein	ND		500	150	ug/L		05/06/22 21:16	50	UJML
Acrylonitrile	ND		50	15	ug/L		05/06/22 21:16	50	UJML
2-Chloroethyl vinyl ether	ND		50	25	ug/L		05/06/22 21:16	50	UJML

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
1,2-Dichloroethane-d4 (Surr)	105		60 - 140	05/06/22 21:16	50	UJML
4-Bromofluorobenzene (Surr)	107		60 - 140	05/06/22 21:16	50	UJML
Dibromofluoromethane (Surr)	107		60 - 140	05/06/22 21:16	50	UJML
Toluene-d8 (Surr)	100		60 - 140	05/06/22 21:16	50	UJML

Accreditation/Certification and Definitions Summary

Client: Cape May County Municipal Utilities Auth
 Project/Site: SSLF Monthly Leachate - VOC

Job ID: 630-32764-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-22

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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

Method Summary

Client: Cape May County Municipal Utilities Auth
Project/Site: SSLF Monthly Leachate - VOC

Job ID: 630-32764-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

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





QC

CHAIN OF CUSTODY

Page ___ of ___



630-32764 Chain of Custody

MATRIX CODES

702 Electronic Drive Phone: 215-355-3900
Horsham, PA 19044 Fax: 215-392-0626

Client/Acct. No. Cape May County MUA Woodbine NJ
Address 1306 Moore Rd.

City/State/Zip CMEN NJ 08210 P.O. No. Wastewater PWSID#: Contract
Phone/Fax 609-465-8410/463-8544 Quote #

Client Contact: Emily Zidanic e-mail:

___ Ascorbic/HCL Vials # ___ HCl Vials
___ Na₂S₂O₃
___ Na OH/Zn acetate pH
___ HNO₃ pH
___ H₂SO₄ pH
___ NaOH pH
___ Unpreserved
___ HCl # ___ NH₄Cl # ___ MeOH
___ DI Water

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

PROJECT	Collection		G R A B	C O M P	Matrix Code	Number of Containers															
	Date	Military Time				Total	H 2 S O 4	H C l	V i a l s	H N O 3	N a O H	Z n A c	U N P R E	B A C T							
FIELD ID																					
SSLF22-05 LEACHATE	5-5-22	0831	✓		WW	9	6								3						

ANALYSIS REQUESTED

VOC Scan

Field pH, Temp (°C),
DO, Cl₂, Cond. etc.

pH = 8.01

SAMPLED BY: (Name/Company)

LA
SSLF/MUA

TAT: STANDARD (10 DAY)

or DUE DATE ___/___/___

Report Format: Standard NJ-RDD SRP-RDD

Standard + QC Forms EDD

Field Parameters Analyzed By:

Initials

ke pg

Date/Time:

5-5-22/0904

Please call for pricing and availability for rush (<10 day) turnaround and for all but standard reporting format.

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME	DELIVERY: <input type="checkbox"/> EQC COURIER <input type="checkbox"/> CLIENT <input type="checkbox"/> UPS <input type="checkbox"/> FEDEX <input type="checkbox"/> OTHER	Custody Seal Number
1. [Signature]	5-5-22	14:09	1. Sean Jamison	5/5/22	14:09		
2. [Signature]	5/5/22	15:10	2. ER 8990	5/5/22	15:10	Rec'd Temp.: _____ Initials: _____ Ice <input checked="" type="checkbox"/> N Location: VL	
3.			3.			COMMENTS:	
4.			4.				
5.			5.				

Hazardous: yes / no

Chain of Custody Record



1
2
3
4
5
6
7

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Dougherty, Erin		Carrier Tracking No(s):		COC No: 630-7664.1			
Client Contact: Shipping/Receiving		Phone:		E-Mail: Erin.Dougherty@et.eurofinsus.com		State of Origin: New Jersey		Page: Page 1 of 1			
Company: Eurofins Lancaster Laboratories Environm				Accreditations Required (See note): NELAP - New Jersey				Job #: 630-32764-1			
Address: 2425 New Holland Pike,		Due Date Requested: 5/18/2022		Analysis Requested						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 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 Z - other (specify)	
City: Lancaster		TAT Requested (days):									
State, Zip: PA, 17601		PO #:									
Phone: 717-656-2300(Tel)		WO #:									
Email:		Project #: 63001619									
Project Name: SSLF Monthly Leachate - VOC		SSOW#:		Site: Cape May Country MUA Landfill		Other:		Special Instructions/Note:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Preservation Code:		
SSLF22-05 LEACHATE GRAB (630-32764-1)		5/5/22	08:31 Eastern		Water		X	9			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Philadelphia, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Philadelphia, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Philadelphia, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Philadelphia, LLC.											
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 1		Special Instructions/QC Requirements:						
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:				
Relinquished by: Sean Jarvis		Date/Time: 5/5/22		Company: Eurofins		Received by: ER8990		Date/Time: 5/5/22			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:			
Relinquished by:		Date/Time:		Company:		Received by: MW		Date/Time: 5/5/20 2:50 PM			
Custody Seals Intact:		Custody Seal No.: ER8990		Cooler Temperature(s) °C and Other Remarks: 0.4							
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No											

