

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Jennifer Fee
Compliance Designs
Governor Wentworth Building
159 South Stark Highway
Weare, New Hampshire 03281

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JOB DESCRIPTION

Misc. Testing

JOB NUMBER

410-195621-1

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
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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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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.

Barb Weyandt



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Definitions/Glossary

Client: Compliance Designs
Project/Site: Misc. Testing

Job ID: 410-195621-1

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
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: Compliance Designs
Project: Misc. Testing

Job ID: 410-195621-1

Job ID: 410-195621-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-195621-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 11/7/2024 9:50 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample Preservation. This does not meet regulatory requirements.

LCMS

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

Detection Summary

Client: Compliance Designs
Project/Site: Misc. Testing

Job ID: 410-195621-1

Client Sample ID: 017-078 Alkaline FP

Lab Sample ID: 410-195621-1

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Compliance Designs
Project/Site: Misc. Testing

Job ID: 410-195621-1

Client Sample ID: 017-078 Alkaline FP

Lab Sample ID: 410-195621-1

Date Collected: 11/05/24 05:00

Matrix: Water

Date Received: 11/07/24 09:50

Method: SW846 8315A - Hydrazine (LC/MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydrazine	ND		0.50		ug/L		11/11/24 10:56	11/14/24 16:36	1
Monomethyl Hydrazine	ND		0.80		ug/L		11/11/24 10:56	11/14/24 16:36	1
1,1-Dimethylhydrazine	ND		0.80		ug/L		11/11/24 10:56	11/14/24 16:36	1

QC Sample Results

Client: Compliance Designs
Project/Site: Misc. Testing

Job ID: 410-195621-1

Method: 8315A - Hydrazine (LC/MS/MS)

Lab Sample ID: MB 410-573608/1-A
Matrix: Water
Analysis Batch: 575116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 573608

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Hydrazine	ND		0.50		ug/L		11/11/24 10:56	11/14/24 16:04	1
Monomethyl Hydrazine	ND		0.80		ug/L		11/11/24 10:56	11/14/24 16:04	1
1,1-Dimethylhydrazine	ND		0.80		ug/L		11/11/24 10:56	11/14/24 16:04	1

Lab Sample ID: LCS 410-573608/2-A
Matrix: Water
Analysis Batch: 575116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 573608

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Hydrazine	6.00	5.06		ug/L		84	61 - 139
Monomethyl Hydrazine	30.0	32.1		ug/L		107	61 - 130
1,1-Dimethylhydrazine	30.0	41.0		ug/L		137	62 - 147

Lab Sample ID: LCSD 410-573608/3-A
Matrix: Water
Analysis Batch: 575116

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 573608

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Hydrazine	6.00	4.77		ug/L		79	61 - 139	6	25
Monomethyl Hydrazine	30.0	31.9		ug/L		106	61 - 130	1	25
1,1-Dimethylhydrazine	30.0	38.2		ug/L		127	62 - 147	7	25

QC Association Summary

Client: Compliance Designs
Project/Site: Misc. Testing

Job ID: 410-195621-1

LCMS

Prep Batch: 573608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-195621-1	017-078 Alkaline FP	Total/NA	Water	8315A	
MB 410-573608/1-A	Method Blank	Total/NA	Water	8315A	
LCS 410-573608/2-A	Lab Control Sample	Total/NA	Water	8315A	
LCSD 410-573608/3-A	Lab Control Sample Dup	Total/NA	Water	8315A	

Analysis Batch: 575116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-195621-1	017-078 Alkaline FP	Total/NA	Water	8315A	573608
MB 410-573608/1-A	Method Blank	Total/NA	Water	8315A	573608
LCS 410-573608/2-A	Lab Control Sample	Total/NA	Water	8315A	573608
LCSD 410-573608/3-A	Lab Control Sample Dup	Total/NA	Water	8315A	573608



Lab Chronicle

Client: Compliance Designs
Project/Site: Misc. Testing

Job ID: 410-195621-1

Client Sample ID: 017-078 Alkaline FP

Lab Sample ID: 410-195621-1

Date Collected: 11/05/24 05:00

Matrix: Water

Date Received: 11/07/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8315A			573608	UAD3	ELLE	11/11/24 10:56
Total/NA	Analysis	8315A		1	575116	VVE5	ELLE	11/14/24 16:36

Laboratory References:

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



Accreditation/Certification Summary

Client: Compliance Designs
Project/Site: Misc. Testing

Job ID: 410-195621-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8315A	8315A	Water	1,1-Dimethylhydrazine
8315A	8315A	Water	Hydrazine
8315A	8315A	Water	Monomethyl Hydrazine



Method Summary

Client: Compliance Designs
Project/Site: Misc. Testing

Job ID: 410-195621-1

Method	Method Description	Protocol	Laboratory
8315A	Hydrazine (LC/MS/MS)	SW846	ELLE
8315A	Preparation, Hydrazines	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: Compliance Designs
Project/Site: Misc. Testing

Job ID: 410-195621-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
410-195621-1	017-078 Alkaline FP	Water	11/05/24 05:00	11/07/24 09:50

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410-195621 Chain of Custody

AIN OF CUSTODY RECORD

017-078-13

DR TO: ark Highway weare, New Hampshire 03281 Tel (603) 273-0954 Fax (603) 695-7318		CLIENT NAME TO APPEAR ON REPORT: Menehune Water 99-1205 Halawa Valley Street Aiea HI 96701		LAB USED: Eurofins-Lancaster	ORDER #
				TURNAROUND TIME: STND/BUT ASAP	PWS #:
PROJECT NAME: Misc. Testing		PROJECT #: 017		NUMBER OF CONTAINERS ANALYSIS REQUIRED Hydrazine	
SAMPLE NUMBER	DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION AND PRODUCTION CODE			
017-078	11-5-24 / 5:00 AM	Alkaline FP			
		Produced From: <i>Small Pack Division</i>			
		Size: <i>1 Gal.</i> If multiple shipments indicate shipment <u>1</u> of <u>1</u>			
		Prod Code: Line:			
SAMPLER'S SIGNATURE: SIGN HERE		PLEASE PRINT BELOW: Cesar JAVIER		COMPLIANCE CRITERIA:	
RELINQUISHED BY		DATE/TIME	ACCEPTED BY	DATE/TIME	NOTES TO LABORATORY
		11-05-24		11/7/24 0950	
		11/2:00 PM			

124-7-C4.3

Login Sample Receipt Checklist

Client: Compliance Designs

Job Number: 410-195621-1

Login Number: 195621

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Ballard, Megan

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
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.	False	Container preservation not listed on COC.
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?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	