

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
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Laboratory Job ID: 410-38377-1

Client Project/Site: Boeing of Portland 0025116.621.640

For:

Landau & Associates, Inc.
130 Second Ave South
Edmonds, Washington 98020

Attn: Evelyn Ives



Authorized for release by:
5/11/2021 11:57:46 PM

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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 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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A handwritten signature in black ink, reading "Vanessa N. Badman".

Vanessa Badman
Project Manager
5/11/2021 11:57:46 PM



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Definitions/Glossary

Client: Landau & Associates, Inc.

Job ID: 410-38377-1

Project/Site: Boeing of Portland 0025116.621.640

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
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

Case Narrative

Client: Landau & Associates, Inc.
Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Job ID: 410-38377-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-38377-1

Receipt

The samples were received on 5/5/2021 11:49 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC/MS VOA

Method 8260C_LL: The continuing calibration verification (CCV) associated with batch 410-124756 recovered outside acceptance criteria, low biased, for Vinyl acetate. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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



Detection Summary

Client: Landau & Associates, Inc.
Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Client Sample ID: BOP-13ds-0521

Lab Sample ID: 410-38377-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.320		0.200	ug/L	1		8260C LL	Total/NA
Trichloroethene	2.25		0.200	ug/L	1		8260C LL	Total/NA

Client Sample ID: BOP-13dg-0521

Lab Sample ID: 410-38377-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.12		5.00	ug/L	1		8260C LL	Total/NA
Trichloroethene	0.257		0.200	ug/L	1		8260C LL	Total/NA

Client Sample ID: BOP-31ds-0521

Lab Sample ID: 410-38377-3

No Detections.

Client Sample ID: BOP-31dg-0521

Lab Sample ID: 410-38377-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.222		0.200	ug/L	1		8260C LL	Total/NA
cis-1,2-Dichloroethene	0.244		0.200	ug/L	1		8260C LL	Total/NA
Tetrachloroethene	0.398		0.200	ug/L	1		8260C LL	Total/NA
Trichloroethene	2.68		0.200	ug/L	1		8260C LL	Total/NA

Client Sample ID: Trip Blanks

Lab Sample ID: 410-38377-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: Landau & Associates, Inc.
 Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Client Sample ID: BOP-13ds-0521

Lab Sample ID: 410-38377-1

Date Collected: 05/04/21 11:05

Matrix: Water

Date Received: 05/05/21 11:49

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.500	U	0.500	ug/L			05/11/21 14:19	1
1,1,1,2-Tetrachloroethane	0.200	U	0.200	ug/L			05/11/21 14:19	1
1,1,2-Trichloroethane	0.200	U	0.200	ug/L			05/11/21 14:19	1
1,1-Dichloroethane	0.500	U	0.500	ug/L			05/11/21 14:19	1
1,1-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 14:19	1
1,2-Dichloroethane	0.200	U	0.200	ug/L			05/11/21 14:19	1
1,2-Dichloropropane	0.500	U	0.500	ug/L			05/11/21 14:19	1
2-Butanone	5.00	U	5.00	ug/L			05/11/21 14:19	1
2-Hexanone	5.00	U	5.00	ug/L			05/11/21 14:19	1
4-Methyl-2-pentanone	5.00	U	5.00	ug/L			05/11/21 14:19	1
Acetone	5.00	U	5.00	ug/L			05/11/21 14:19	1
Benzene	0.200	U	0.200	ug/L			05/11/21 14:19	1
Bromodichloromethane	0.500	U	0.500	ug/L			05/11/21 14:19	1
Bromoform	1.00	U	1.00	ug/L			05/11/21 14:19	1
Bromomethane	0.500	U	0.500	ug/L			05/11/21 14:19	1
Carbon disulfide	0.500	U	0.500	ug/L			05/11/21 14:19	1
Carbon tetrachloride	0.200	U	0.200	ug/L			05/11/21 14:19	1
Chlorobenzene	0.500	U	0.500	ug/L			05/11/21 14:19	1
Chloroethane	0.500	U	0.500	ug/L			05/11/21 14:19	1
Chloroform	0.200	U	0.200	ug/L			05/11/21 14:19	1
Chloromethane	0.500	U	0.500	ug/L			05/11/21 14:19	1
cis-1,2-Dichloroethene	0.320		0.200	ug/L			05/11/21 14:19	1
cis-1,3-Dichloropropene	0.200	U	0.200	ug/L			05/11/21 14:19	1
Dibromochloromethane	0.500	U	0.500	ug/L			05/11/21 14:19	1
Ethylbenzene	0.500	U	0.500	ug/L			05/11/21 14:19	1
Freon 113	0.500	U	0.500	ug/L			05/11/21 14:19	1
m&p-Xylene	0.500	U	0.500	ug/L			05/11/21 14:19	1
Methylene Chloride	0.500	U	0.500	ug/L			05/11/21 14:19	1
o-Xylene	0.500	U	0.500	ug/L			05/11/21 14:19	1
Styrene	0.500	U	0.500	ug/L			05/11/21 14:19	1
Tetrachloroethene	0.200	U	0.200	ug/L			05/11/21 14:19	1
Toluene	0.200	U	0.200	ug/L			05/11/21 14:19	1
trans-1,2-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 14:19	1
trans-1,3-Dichloropropene	0.200	U	0.200	ug/L			05/11/21 14:19	1
Trichloroethene	2.25		0.200	ug/L			05/11/21 14:19	1
Trichlorofluoromethane	0.500	U	0.500	ug/L			05/11/21 14:19	1
Vinyl acetate	0.500	U	0.500	ug/L			05/11/21 14:19	1
Vinyl chloride	0.200	U	0.200	ug/L			05/11/21 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		05/11/21 14:19	1
Dibromofluoromethane (Surr)	104		80 - 120		05/11/21 14:19	1
4-Bromofluorobenzene (Surr)	91		80 - 120		05/11/21 14:19	1
Toluene-d8 (Surr)	93		80 - 120		05/11/21 14:19	1

Client Sample Results

Client: Landau & Associates, Inc.
 Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Client Sample ID: BOP-13dg-0521

Lab Sample ID: 410-38377-2

Date Collected: 05/04/21 10:35

Matrix: Water

Date Received: 05/05/21 11:49

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.500	U	0.500	ug/L			05/11/21 14:41	1
1,1,1,2-Tetrachloroethane	0.200	U	0.200	ug/L			05/11/21 14:41	1
1,1,2-Trichloroethane	0.200	U	0.200	ug/L			05/11/21 14:41	1
1,1-Dichloroethane	0.500	U	0.500	ug/L			05/11/21 14:41	1
1,1-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 14:41	1
1,2-Dichloroethane	0.200	U	0.200	ug/L			05/11/21 14:41	1
1,2-Dichloropropane	0.500	U	0.500	ug/L			05/11/21 14:41	1
2-Butanone	5.00	U	5.00	ug/L			05/11/21 14:41	1
2-Hexanone	5.00	U	5.00	ug/L			05/11/21 14:41	1
4-Methyl-2-pentanone	5.00	U	5.00	ug/L			05/11/21 14:41	1
Acetone	6.12		5.00	ug/L			05/11/21 14:41	1
Benzene	0.200	U	0.200	ug/L			05/11/21 14:41	1
Bromodichloromethane	0.500	U	0.500	ug/L			05/11/21 14:41	1
Bromoform	1.00	U	1.00	ug/L			05/11/21 14:41	1
Bromomethane	0.500	U	0.500	ug/L			05/11/21 14:41	1
Carbon disulfide	0.500	U	0.500	ug/L			05/11/21 14:41	1
Carbon tetrachloride	0.200	U	0.200	ug/L			05/11/21 14:41	1
Chlorobenzene	0.500	U	0.500	ug/L			05/11/21 14:41	1
Chloroethane	0.500	U	0.500	ug/L			05/11/21 14:41	1
Chloroform	0.200	U	0.200	ug/L			05/11/21 14:41	1
Chloromethane	0.500	U	0.500	ug/L			05/11/21 14:41	1
cis-1,2-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 14:41	1
cis-1,3-Dichloropropene	0.200	U	0.200	ug/L			05/11/21 14:41	1
Dibromochloromethane	0.500	U	0.500	ug/L			05/11/21 14:41	1
Ethylbenzene	0.500	U	0.500	ug/L			05/11/21 14:41	1
Freon 113	0.500	U	0.500	ug/L			05/11/21 14:41	1
m&p-Xylene	0.500	U	0.500	ug/L			05/11/21 14:41	1
Methylene Chloride	0.500	U	0.500	ug/L			05/11/21 14:41	1
o-Xylene	0.500	U	0.500	ug/L			05/11/21 14:41	1
Styrene	0.500	U	0.500	ug/L			05/11/21 14:41	1
Tetrachloroethene	0.200	U	0.200	ug/L			05/11/21 14:41	1
Toluene	0.200	U	0.200	ug/L			05/11/21 14:41	1
trans-1,2-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 14:41	1
trans-1,3-Dichloropropene	0.200	U	0.200	ug/L			05/11/21 14:41	1
Trichloroethene	0.257		0.200	ug/L			05/11/21 14:41	1
Trichlorofluoromethane	0.500	U	0.500	ug/L			05/11/21 14:41	1
Vinyl acetate	0.500	U	0.500	ug/L			05/11/21 14:41	1
Vinyl chloride	0.200	U	0.200	ug/L			05/11/21 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/11/21 14:41	1
Dibromofluoromethane (Surr)	103		80 - 120		05/11/21 14:41	1
4-Bromofluorobenzene (Surr)	90		80 - 120		05/11/21 14:41	1
Toluene-d8 (Surr)	93		80 - 120		05/11/21 14:41	1

Client Sample Results

Client: Landau & Associates, Inc.
 Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Client Sample ID: BOP-31ds-0521

Lab Sample ID: 410-38377-3

Date Collected: 05/04/21 11:45

Matrix: Water

Date Received: 05/05/21 11:49

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.500	U	0.500	ug/L			05/11/21 15:03	1
1,1,1,2-Tetrachloroethane	0.200	U	0.200	ug/L			05/11/21 15:03	1
1,1,2-Trichloroethane	0.200	U	0.200	ug/L			05/11/21 15:03	1
1,1-Dichloroethane	0.500	U	0.500	ug/L			05/11/21 15:03	1
1,1-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 15:03	1
1,2-Dichloroethane	0.200	U	0.200	ug/L			05/11/21 15:03	1
1,2-Dichloropropane	0.500	U	0.500	ug/L			05/11/21 15:03	1
2-Butanone	5.00	U	5.00	ug/L			05/11/21 15:03	1
2-Hexanone	5.00	U	5.00	ug/L			05/11/21 15:03	1
4-Methyl-2-pentanone	5.00	U	5.00	ug/L			05/11/21 15:03	1
Acetone	5.00	U	5.00	ug/L			05/11/21 15:03	1
Benzene	0.200	U	0.200	ug/L			05/11/21 15:03	1
Bromodichloromethane	0.500	U	0.500	ug/L			05/11/21 15:03	1
Bromoform	1.00	U	1.00	ug/L			05/11/21 15:03	1
Bromomethane	0.500	U	0.500	ug/L			05/11/21 15:03	1
Carbon disulfide	0.500	U	0.500	ug/L			05/11/21 15:03	1
Carbon tetrachloride	0.200	U	0.200	ug/L			05/11/21 15:03	1
Chlorobenzene	0.500	U	0.500	ug/L			05/11/21 15:03	1
Chloroethane	0.500	U	0.500	ug/L			05/11/21 15:03	1
Chloroform	0.200	U	0.200	ug/L			05/11/21 15:03	1
Chloromethane	0.500	U	0.500	ug/L			05/11/21 15:03	1
cis-1,2-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 15:03	1
cis-1,3-Dichloropropene	0.200	U	0.200	ug/L			05/11/21 15:03	1
Dibromochloromethane	0.500	U	0.500	ug/L			05/11/21 15:03	1
Ethylbenzene	0.500	U	0.500	ug/L			05/11/21 15:03	1
Freon 113	0.500	U	0.500	ug/L			05/11/21 15:03	1
m&p-Xylene	0.500	U	0.500	ug/L			05/11/21 15:03	1
Methylene Chloride	0.500	U	0.500	ug/L			05/11/21 15:03	1
o-Xylene	0.500	U	0.500	ug/L			05/11/21 15:03	1
Styrene	0.500	U	0.500	ug/L			05/11/21 15:03	1
Tetrachloroethene	0.200	U	0.200	ug/L			05/11/21 15:03	1
Toluene	0.200	U	0.200	ug/L			05/11/21 15:03	1
trans-1,2-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 15:03	1
trans-1,3-Dichloropropene	0.200	U	0.200	ug/L			05/11/21 15:03	1
Trichloroethene	0.200	U	0.200	ug/L			05/11/21 15:03	1
Trichlorofluoromethane	0.500	U	0.500	ug/L			05/11/21 15:03	1
Vinyl acetate	0.500	U	0.500	ug/L			05/11/21 15:03	1
Vinyl chloride	0.200	U	0.200	ug/L			05/11/21 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/11/21 15:03	1
Dibromofluoromethane (Surr)	103		80 - 120		05/11/21 15:03	1
4-Bromofluorobenzene (Surr)	89		80 - 120		05/11/21 15:03	1
Toluene-d8 (Surr)	93		80 - 120		05/11/21 15:03	1

Client Sample Results

Client: Landau & Associates, Inc.
 Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Client Sample ID: BOP-31dg-0521

Lab Sample ID: 410-38377-4

Date Collected: 05/04/21 11:40

Matrix: Water

Date Received: 05/05/21 11:49

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.500	U	0.500	ug/L			05/11/21 15:25	1
1,1,1,2-Tetrachloroethane	0.200	U	0.200	ug/L			05/11/21 15:25	1
1,1,2-Trichloroethane	0.200	U	0.200	ug/L			05/11/21 15:25	1
1,1-Dichloroethane	0.500	U	0.500	ug/L			05/11/21 15:25	1
1,1-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 15:25	1
1,2-Dichloroethane	0.200	U	0.200	ug/L			05/11/21 15:25	1
1,2-Dichloropropane	0.500	U	0.500	ug/L			05/11/21 15:25	1
2-Butanone	5.00	U	5.00	ug/L			05/11/21 15:25	1
2-Hexanone	5.00	U	5.00	ug/L			05/11/21 15:25	1
4-Methyl-2-pentanone	5.00	U	5.00	ug/L			05/11/21 15:25	1
Acetone	5.00	U	5.00	ug/L			05/11/21 15:25	1
Benzene	0.200	U	0.200	ug/L			05/11/21 15:25	1
Bromodichloromethane	0.500	U	0.500	ug/L			05/11/21 15:25	1
Bromoform	1.00	U	1.00	ug/L			05/11/21 15:25	1
Bromomethane	0.500	U	0.500	ug/L			05/11/21 15:25	1
Carbon disulfide	0.500	U	0.500	ug/L			05/11/21 15:25	1
Carbon tetrachloride	0.200	U	0.200	ug/L			05/11/21 15:25	1
Chlorobenzene	0.500	U	0.500	ug/L			05/11/21 15:25	1
Chloroethane	0.500	U	0.500	ug/L			05/11/21 15:25	1
Chloroform	0.222		0.200	ug/L			05/11/21 15:25	1
Chloromethane	0.500	U	0.500	ug/L			05/11/21 15:25	1
cis-1,2-Dichloroethene	0.244		0.200	ug/L			05/11/21 15:25	1
cis-1,3-Dichloropropene	0.200	U	0.200	ug/L			05/11/21 15:25	1
Dibromochloromethane	0.500	U	0.500	ug/L			05/11/21 15:25	1
Ethylbenzene	0.500	U	0.500	ug/L			05/11/21 15:25	1
Freon 113	0.500	U	0.500	ug/L			05/11/21 15:25	1
m&p-Xylene	0.500	U	0.500	ug/L			05/11/21 15:25	1
Methylene Chloride	0.500	U	0.500	ug/L			05/11/21 15:25	1
o-Xylene	0.500	U	0.500	ug/L			05/11/21 15:25	1
Styrene	0.500	U	0.500	ug/L			05/11/21 15:25	1
Tetrachloroethene	0.398		0.200	ug/L			05/11/21 15:25	1
Toluene	0.200	U	0.200	ug/L			05/11/21 15:25	1
trans-1,2-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 15:25	1
trans-1,3-Dichloropropene	0.200	U	0.200	ug/L			05/11/21 15:25	1
Trichloroethene	2.68		0.200	ug/L			05/11/21 15:25	1
Trichlorofluoromethane	0.500	U	0.500	ug/L			05/11/21 15:25	1
Vinyl acetate	0.500	U	0.500	ug/L			05/11/21 15:25	1
Vinyl chloride	0.200	U	0.200	ug/L			05/11/21 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		05/11/21 15:25	1
Dibromofluoromethane (Surr)	103		80 - 120		05/11/21 15:25	1
4-Bromofluorobenzene (Surr)	91		80 - 120		05/11/21 15:25	1
Toluene-d8 (Surr)	94		80 - 120		05/11/21 15:25	1

Client Sample Results

Client: Landau & Associates, Inc.
 Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Client Sample ID: Trip Blanks

Lab Sample ID: 410-38377-5

Date Collected: 05/04/21 00:00

Matrix: WQ

Date Received: 05/05/21 11:49

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.500	U	0.500	ug/L			05/11/21 12:51	1
1,1,1,2-Tetrachloroethane	0.200	U	0.200	ug/L			05/11/21 12:51	1
1,1,2-Trichloroethane	0.200	U	0.200	ug/L			05/11/21 12:51	1
1,1-Dichloroethane	0.500	U	0.500	ug/L			05/11/21 12:51	1
1,1-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 12:51	1
1,2-Dichloroethane	0.200	U	0.200	ug/L			05/11/21 12:51	1
1,2-Dichloropropane	0.500	U	0.500	ug/L			05/11/21 12:51	1
2-Butanone	5.00	U	5.00	ug/L			05/11/21 12:51	1
2-Hexanone	5.00	U	5.00	ug/L			05/11/21 12:51	1
4-Methyl-2-pentanone	5.00	U	5.00	ug/L			05/11/21 12:51	1
Acetone	5.00	U	5.00	ug/L			05/11/21 12:51	1
Benzene	0.200	U	0.200	ug/L			05/11/21 12:51	1
Bromodichloromethane	0.500	U	0.500	ug/L			05/11/21 12:51	1
Bromoform	1.00	U	1.00	ug/L			05/11/21 12:51	1
Bromomethane	0.500	U	0.500	ug/L			05/11/21 12:51	1
Carbon disulfide	0.500	U	0.500	ug/L			05/11/21 12:51	1
Carbon tetrachloride	0.200	U	0.200	ug/L			05/11/21 12:51	1
Chlorobenzene	0.500	U	0.500	ug/L			05/11/21 12:51	1
Chloroethane	0.500	U	0.500	ug/L			05/11/21 12:51	1
Chloroform	0.200	U	0.200	ug/L			05/11/21 12:51	1
Chloromethane	0.500	U	0.500	ug/L			05/11/21 12:51	1
cis-1,2-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 12:51	1
cis-1,3-Dichloropropene	0.200	U	0.200	ug/L			05/11/21 12:51	1
Dibromochloromethane	0.500	U	0.500	ug/L			05/11/21 12:51	1
Ethylbenzene	0.500	U	0.500	ug/L			05/11/21 12:51	1
Freon 113	0.500	U	0.500	ug/L			05/11/21 12:51	1
m&p-Xylene	0.500	U	0.500	ug/L			05/11/21 12:51	1
Methylene Chloride	0.500	U	0.500	ug/L			05/11/21 12:51	1
o-Xylene	0.500	U	0.500	ug/L			05/11/21 12:51	1
Styrene	0.500	U	0.500	ug/L			05/11/21 12:51	1
Tetrachloroethene	0.200	U	0.200	ug/L			05/11/21 12:51	1
Toluene	0.200	U	0.200	ug/L			05/11/21 12:51	1
trans-1,2-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 12:51	1
trans-1,3-Dichloropropene	0.200	U	0.200	ug/L			05/11/21 12:51	1
Trichloroethene	0.200	U	0.200	ug/L			05/11/21 12:51	1
Trichlorofluoromethane	0.500	U	0.500	ug/L			05/11/21 12:51	1
Vinyl acetate	0.500	U	0.500	ug/L			05/11/21 12:51	1
Vinyl chloride	0.200	U	0.200	ug/L			05/11/21 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/11/21 12:51	1
Dibromofluoromethane (Surr)	105		80 - 120		05/11/21 12:51	1
4-Bromofluorobenzene (Surr)	90		80 - 120		05/11/21 12:51	1
Toluene-d8 (Surr)	94		80 - 120		05/11/21 12:51	1

Surrogate Summary

Client: Landau & Associates, Inc.
 Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	DBFM (80-120)	BFB (80-120)	TOL (80-120)
410-38377-1	BOP-13ds-0521	101	104	91	93
410-38377-2	BOP-13dg-0521	100	103	90	93
410-38377-3	BOP-31ds-0521	100	103	89	93
410-38377-4	BOP-31dg-0521	101	103	91	94
LCS 410-124756/4	Lab Control Sample	100	103	92	94
LCS 410-124756/7	Lab Control Sample	100	103	92	94
LCSD 410-124756/5	Lab Control Sample Dup	100	102	92	94
LCSD 410-124756/8	Lab Control Sample Dup	99	103	92	94
MB 410-124756/10	Method Blank	102	104	90	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 DBFM = Dibromofluoromethane (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Matrix: WQ

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	DBFM (80-120)	BFB (80-120)	TOL (80-120)
410-38377-5	Trip Blanks	100	105	90	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 DBFM = Dibromofluoromethane (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Landau & Associates, Inc.
 Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-124756/10

Matrix: Water

Analysis Batch: 124756

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1-Trichloroethane	0.500	U	0.500	ug/L			05/11/21 12:03	1
1,1,1,2-Tetrachloroethane	0.200	U	0.200	ug/L			05/11/21 12:03	1
1,1,2-Trichloroethane	0.200	U	0.200	ug/L			05/11/21 12:03	1
1,1-Dichloroethane	0.500	U	0.500	ug/L			05/11/21 12:03	1
1,1-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 12:03	1
1,2-Dichloroethane	0.200	U	0.200	ug/L			05/11/21 12:03	1
1,2-Dichloropropane	0.500	U	0.500	ug/L			05/11/21 12:03	1
2-Butanone	5.00	U	5.00	ug/L			05/11/21 12:03	1
2-Hexanone	5.00	U	5.00	ug/L			05/11/21 12:03	1
4-Methyl-2-pentanone	5.00	U	5.00	ug/L			05/11/21 12:03	1
Acetone	5.00	U	5.00	ug/L			05/11/21 12:03	1
Benzene	0.200	U	0.200	ug/L			05/11/21 12:03	1
Bromodichloromethane	0.500	U	0.500	ug/L			05/11/21 12:03	1
Bromoform	1.00	U	1.00	ug/L			05/11/21 12:03	1
Bromomethane	0.500	U	0.500	ug/L			05/11/21 12:03	1
Carbon disulfide	0.500	U	0.500	ug/L			05/11/21 12:03	1
Carbon tetrachloride	0.200	U	0.200	ug/L			05/11/21 12:03	1
Chlorobenzene	0.500	U	0.500	ug/L			05/11/21 12:03	1
Chloroethane	0.500	U	0.500	ug/L			05/11/21 12:03	1
Chloroform	0.200	U	0.200	ug/L			05/11/21 12:03	1
Chloromethane	0.500	U	0.500	ug/L			05/11/21 12:03	1
cis-1,2-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 12:03	1
cis-1,3-Dichloropropene	0.200	U	0.200	ug/L			05/11/21 12:03	1
Dibromochloromethane	0.500	U	0.500	ug/L			05/11/21 12:03	1
Ethylbenzene	0.500	U	0.500	ug/L			05/11/21 12:03	1
Freon 113	0.500	U	0.500	ug/L			05/11/21 12:03	1
m&p-Xylene	0.500	U	0.500	ug/L			05/11/21 12:03	1
Methylene Chloride	0.500	U	0.500	ug/L			05/11/21 12:03	1
o-Xylene	0.500	U	0.500	ug/L			05/11/21 12:03	1
Styrene	0.500	U	0.500	ug/L			05/11/21 12:03	1
Tetrachloroethene	0.200	U	0.200	ug/L			05/11/21 12:03	1
Toluene	0.200	U	0.200	ug/L			05/11/21 12:03	1
trans-1,2-Dichloroethene	0.200	U	0.200	ug/L			05/11/21 12:03	1
trans-1,3-Dichloropropene	0.200	U	0.200	ug/L			05/11/21 12:03	1
Trichloroethene	0.200	U	0.200	ug/L			05/11/21 12:03	1
Trichlorofluoromethane	0.500	U	0.500	ug/L			05/11/21 12:03	1
Vinyl acetate	0.500	U	0.500	ug/L			05/11/21 12:03	1
Vinyl chloride	0.200	U	0.200	ug/L			05/11/21 12:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		05/11/21 12:03	1
Dibromofluoromethane (Surr)	104		80 - 120		05/11/21 12:03	1
4-Bromofluorobenzene (Surr)	90		80 - 120		05/11/21 12:03	1
Toluene-d8 (Surr)	94		80 - 120		05/11/21 12:03	1

QC Sample Results

Client: Landau & Associates, Inc.
 Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-124756/4

Matrix: Water

Analysis Batch: 124756

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	5.00	4.563		ug/L		91	78 - 126
1,1,1,2-Tetrachloroethane	5.00	4.274		ug/L		85	75 - 123
1,1,2-Trichloroethane	5.00	4.675		ug/L		93	80 - 120
1,1-Dichloroethane	5.00	4.323		ug/L		86	74 - 120
1,1-Dichloroethene	5.00	4.782		ug/L		96	80 - 131
1,2-Dichloroethane	5.00	4.456		ug/L		89	69 - 122
1,2-Dichloropropane	5.00	4.428		ug/L		89	80 - 120
2-Butanone	62.5	61.64		ug/L		99	59 - 141
2-Hexanone	62.5	61.48		ug/L		98	52 - 140
4-Methyl-2-pentanone	62.5	60.62		ug/L		97	55 - 140
Acetone	62.5	59.86		ug/L		96	60 - 146
Benzene	5.00	4.545		ug/L		91	80 - 120
Bromodichloromethane	5.00	4.687		ug/L		94	73 - 124
Bromoform	5.00	4.933		ug/L		99	49 - 144
Bromomethane	5.00	5.250		ug/L		105	60 - 136
Carbon disulfide	5.00	4.450		ug/L		89	67 - 130
Carbon tetrachloride	5.00	4.653		ug/L		93	64 - 141
Chlorobenzene	5.00	4.672		ug/L		93	80 - 120
Chloroethane	5.00	4.778		ug/L		96	63 - 120
Chloroform	5.00	4.616		ug/L		92	80 - 120
Chloromethane	5.00	4.531		ug/L		91	56 - 124
cis-1,2-Dichloroethene	5.00	4.767		ug/L		95	80 - 122
cis-1,3-Dichloropropene	5.00	4.356		ug/L		87	67 - 121
Dibromochloromethane	5.00	4.703		ug/L		94	64 - 138
Ethylbenzene	5.00	4.377		ug/L		88	80 - 120
Freon 113	5.00	5.129		ug/L		103	75 - 133
m&p-Xylene	10.0	9.080		ug/L		91	80 - 120
Methylene Chloride	5.00	4.792		ug/L		96	80 - 120
o-Xylene	5.00	4.574		ug/L		91	80 - 120
Styrene	5.00	4.494		ug/L		90	80 - 120
Tetrachloroethene	5.00	4.759		ug/L		95	80 - 120
Toluene	5.00	4.385		ug/L		88	80 - 120
trans-1,2-Dichloroethene	5.00	4.724		ug/L		94	80 - 122
trans-1,3-Dichloropropene	5.00	4.236		ug/L		85	61 - 129
Trichloroethene	5.00	4.725		ug/L		94	80 - 120
Trichlorofluoromethane	5.00	5.700		ug/L		114	62 - 136
Vinyl chloride	5.00	4.978		ug/L		100	60 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120
Toluene-d8 (Surr)	94		80 - 120

QC Sample Results

Client: Landau & Associates, Inc.
 Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-124756/7

Matrix: Water

Analysis Batch: 124756

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	12.5	9.678		ug/L		77	38 - 145
Surrogate							
	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	100		80 - 120				
Dibromofluoromethane (Surr)	103		80 - 120				
4-Bromofluorobenzene (Surr)	92		80 - 120				
Toluene-d8 (Surr)	94		80 - 120				

Lab Sample ID: LCSD 410-124756/5

Matrix: Water

Analysis Batch: 124756

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	5.00	4.541		ug/L		91	78 - 126	0	30
1,1,1,2-Tetrachloroethane	5.00	4.257		ug/L		85	75 - 123	0	30
1,1,1,2-Trichloroethane	5.00	4.636		ug/L		93	80 - 120	1	30
1,1-Dichloroethane	5.00	4.211		ug/L		84	74 - 120	3	30
1,1-Dichloroethene	5.00	4.676		ug/L		94	80 - 131	2	30
1,2-Dichloroethane	5.00	4.390		ug/L		88	69 - 122	1	30
1,2-Dichloropropane	5.00	4.305		ug/L		86	80 - 120	3	30
2-Butanone	62.5	64.73		ug/L		104	59 - 141	5	30
2-Hexanone	62.5	64.49		ug/L		103	52 - 140	5	30
4-Methyl-2-pentanone	62.5	63.66		ug/L		102	55 - 140	5	30
Acetone	62.5	62.64		ug/L		100	60 - 146	5	30
Benzene	5.00	4.451		ug/L		89	80 - 120	2	30
Bromodichloromethane	5.00	4.603		ug/L		92	73 - 124	2	30
Bromoform	5.00	4.932		ug/L		99	49 - 144	0	30
Bromomethane	5.00	5.195		ug/L		104	60 - 136	1	30
Carbon disulfide	5.00	4.338		ug/L		87	67 - 130	3	30
Carbon tetrachloride	5.00	4.579		ug/L		92	64 - 141	2	30
Chlorobenzene	5.00	4.622		ug/L		92	80 - 120	1	30
Chloroethane	5.00	4.757		ug/L		95	63 - 120	0	30
Chloroform	5.00	4.606		ug/L		92	80 - 120	0	30
Chloromethane	5.00	4.398		ug/L		88	56 - 124	3	30
cis-1,2-Dichloroethene	5.00	4.707		ug/L		94	80 - 122	1	30
cis-1,3-Dichloropropene	5.00	4.329		ug/L		87	67 - 121	1	30
Dibromochloromethane	5.00	4.664		ug/L		93	64 - 138	1	30
Ethylbenzene	5.00	4.279		ug/L		86	80 - 120	2	30
Freon 113	5.00	4.997		ug/L		100	75 - 133	3	30
m&p-Xylene	10.0	8.989		ug/L		90	80 - 120	1	30
Methylene Chloride	5.00	4.669		ug/L		93	80 - 120	3	30
o-Xylene	5.00	4.513		ug/L		90	80 - 120	1	30
Styrene	5.00	4.449		ug/L		89	80 - 120	1	30
Tetrachloroethene	5.00	4.672		ug/L		93	80 - 120	2	30
Toluene	5.00	4.321		ug/L		86	80 - 120	1	30
trans-1,2-Dichloroethene	5.00	4.530		ug/L		91	80 - 122	4	30
trans-1,3-Dichloropropene	5.00	4.206		ug/L		84	61 - 129	1	30
Trichloroethene	5.00	4.649		ug/L		93	80 - 120	2	30

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: Landau & Associates, Inc.
 Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-124756/5

Matrix: Water

Analysis Batch: 124756

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	5.00	4.376		ug/L		88	62 - 136	26	30
Vinyl chloride	5.00	4.932		ug/L		99	60 - 125	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: LCSD 410-124756/8

Matrix: Water

Analysis Batch: 124756

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	12.5	9.725		ug/L		78	38 - 145	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120
Toluene-d8 (Surr)	94		80 - 120

QC Association Summary

Client: Landau & Associates, Inc.
Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

GC/MS VOA

Analysis Batch: 124756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-38377-1	BOP-13ds-0521	Total/NA	Water	8260C LL	
410-38377-2	BOP-13dg-0521	Total/NA	Water	8260C LL	
410-38377-3	BOP-31ds-0521	Total/NA	Water	8260C LL	
410-38377-4	BOP-31dg-0521	Total/NA	Water	8260C LL	
410-38377-5	Trip Blanks	Total/NA	WQ	8260C LL	
MB 410-124756/10	Method Blank	Total/NA	Water	8260C LL	
LCS 410-124756/4	Lab Control Sample	Total/NA	Water	8260C LL	
LCS 410-124756/7	Lab Control Sample	Total/NA	Water	8260C LL	
LCSD 410-124756/5	Lab Control Sample Dup	Total/NA	Water	8260C LL	
LCSD 410-124756/8	Lab Control Sample Dup	Total/NA	Water	8260C LL	

Lab Chronicle

Client: Landau & Associates, Inc.
 Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Client Sample ID: BOP-13ds-0521

Lab Sample ID: 410-38377-1

Date Collected: 05/04/21 11:05

Matrix: Water

Date Received: 05/05/21 11:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C LL		1	124756	05/11/21 14:19	USEJ	ELLE

Client Sample ID: BOP-13dg-0521

Lab Sample ID: 410-38377-2

Date Collected: 05/04/21 10:35

Matrix: Water

Date Received: 05/05/21 11:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C LL		1	124756	05/11/21 14:41	USEJ	ELLE

Client Sample ID: BOP-31ds-0521

Lab Sample ID: 410-38377-3

Date Collected: 05/04/21 11:45

Matrix: Water

Date Received: 05/05/21 11:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C LL		1	124756	05/11/21 15:03	USEJ	ELLE

Client Sample ID: BOP-31dg-0521

Lab Sample ID: 410-38377-4

Date Collected: 05/04/21 11:40

Matrix: Water

Date Received: 05/05/21 11:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C LL		1	124756	05/11/21 15:25	USEJ	ELLE

Client Sample ID: Trip Blanks

Lab Sample ID: 410-38377-5

Date Collected: 05/04/21 00:00

Matrix: WQ

Date Received: 05/05/21 11:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C LL		1	124756	05/11/21 12:51	USEJ	ELLE

Laboratory References:

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

Accreditation/Certification Summary

Client: Landau & Associates, Inc.

Job ID: 410-38377-1

Project/Site: Boeing of Portland 0025116.621.640

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	PA200001-018	09-12-21

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Method Summary

Client: Landau & Associates, Inc.
Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Method	Method Description	Protocol	Laboratory
8260C LL	Volatile Organic Compounds by GC/MS	SW846	ELLE
5030C	Purge and Trap	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 Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Sample Summary

Client: Landau & Associates, Inc.
Project/Site: Boeing of Portland 0025116.621.640

Job ID: 410-38377-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-38377-1	BOP-13ds-0521	Water	05/04/21 11:05	05/05/21 11:49	
410-38377-2	BOP-13dg-0521	Water	05/04/21 10:35	05/05/21 11:49	
410-38377-3	BOP-31ds-0521	Water	05/04/21 11:45	05/05/21 11:49	
410-38377-4	BOP-31dg-0521	Water	05/04/21 11:40	05/05/21 11:49	
410-38377-5	Trip Blanks	WQ	05/04/21 00:00	05/05/21 11:49	

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Login Sample Receipt Checklist

Client: Landau & Associates, Inc.

Job Number: 410-38377-1

Login Number: 38377

List Source: Eurofins Lancaster Laboratories Env

List Number: 1

Creator: Reiff, Nicole L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
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 is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
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	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	