

DATA PACKAGE

SUB - DATA

PROJECT NAME : FT MEADE TIPTON AIRFIELD PARCEL RI - PO 0111169

WESTON SOLUTIONS

1400 Weston Way

PO Box 2653

West Chester, PA - 19380

Phone No: 610-701-7400

ORDER ID : Q1107

ATTENTION : Nathan Fretz



Cover Page

Order ID : Q1107

Project ID : Ft Meade Tipton Airfield Parcel RI - PO 0111169

Client : Weston Solutions

Lab Sample Number

Q1107-01

Client Sample Number

TAPIAL1-MW04S-011525-00-T2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:52 am, Jan 30, 2025

Date: 1/29/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

ANALYTICAL REPORT

PREPARED FOR

Attn: Yazmeen Gomez
Chemtech Consulting Group Inc.
284 Sheffield Street
Mountainside NJ 07092

Generated 01/29/2025

JOB DESCRIPTION

Q1107

JOB NUMBER

410-204706-1

Eurofins Lancaster Laboratories Environment Testing, LLC

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



Generated
01/29/2025

Authorized for release by
Barbara Weyandt, Project Manager
Barbara.Weyandt@et.eurofinsus.com
Designee for
Barbara A Weyandt, Project Manager
Barbara.Weyandt@et.eurofinsus.com
717 556-7264

Eurofins Lancaster Laboratories Environment Testing, LLC

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.



Table of Contents

| | |
|--|----|
| Cover Page | 1 |
| Data Summaries | 5 |
| Definitions | 5 |
| Case Narrative | 6 |
| Detection Summary | 7 |
| Client Sample Results | 8 |
| Default Detection Limits | 9 |
| QC Sample Results | 10 |
| QC Association | 11 |
| Chronicle | 12 |
| Certification Summary | 13 |
| Method Summary | 14 |
| Sample Summary | 15 |
| Reagent Traceability | 16 |
| COAs | 17 |
| Organic Sample Data | 26 |
| LCMS | 26 |
| 6850_DOD6 | 26 |
| 6850_DOD6 QC Summary | 27 |
| 6850_DOD6 Sample Data | 32 |
| Standards Data | 35 |
| 6850_DOD6 ICAL Data | 35 |
| 6850_DOD6 CCAL Data | 51 |
| Raw QC Data | 63 |
| 6850_DOD6 Blank Data | 63 |
| 6850_DOD6 LCS/LCSD Data | 66 |
| 6850_DOD6 Run Logs | 75 |
| 6850_DOD6 Prep Data | 77 |
| Shipping and Receiving Documents | 79 |
| Client Chain of Custody | 80 |
| Sample Receipt Checklist | 81 |

Definitions/Glossary

Client: Chemtech Consulting Group Inc.
Project/Site: Q1107

Job ID: 410-204706-1

Qualifiers

LCMS

| Qualifier | Qualifier Description |
|-----------|---|
| J | Estimated: The analyte was positively identified; the quantitation is an estimation |

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 |

**Job Narrative
410-204706-1**

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 1/17/2025 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 -0.1°C.

LCMS

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

Detection Summary

Client: Chemtech Consulting Group Inc.

Job ID: 410-204706-1

Project/Site: Q1107

Client Sample ID: TAPIAL1-MW04S-011525-00-T2

Lab Sample ID: 410-204706-1

| Analyte | Result | Qualifier | LOQ | DL | Unit | Dil Fac | D | Method | Prep Type |
|-------------|--------|-----------|-----|------|------|---------|------|--------|-----------|
| Perchlorate | 0.35 | J | 1.0 | 0.20 | ug/L | 1 | 6850 | | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: Q1107

Job ID: 410-204706-1

Client Sample ID: TAPIAL1-MW04S-011525-00-T2

Lab Sample ID: 410-204706-1

Date Collected: 01/15/25 12:20

Matrix: Water

Date Received: 01/17/25 09:50

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

| Analyte | Result | Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Perchlorate | 0.35 | J | 1.0 | 0.20 | ug/L | D | 01/27/25 08:32 | 01/28/25 17:36 | 1 |

Default Detection Limits

Client: Chemtech Consulting Group Inc.
Project/Site: Q1107

Job ID: 410-204706-1

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

Prep: 6850 Prep

| Analyte | LOQ | DL | Bias | Precision | Spike Value | N |
|-------------|----------|-----------|-------|-----------|-------------|----|
| Perchlorate | 1.0 ug/L | 0.20 ug/L | 102.3 | 7.0 % | 0.4 ug/L | 16 |

QC Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: Q1107

Job ID: 410-204706-1

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

Lab Sample ID: MB 410-599365/1-A

Matrix: Water

Analysis Batch: 599506

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 599365

| Analyte | MB Result | MB Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------------|-----------------|-----|------|------|---|----------------|----------------|---------|
| Perchlorate | ND | | 1.0 | 0.20 | ug/L | | 01/27/25 08:32 | 01/28/25 16:44 | 1 |

Lab Sample ID: LCS 410-599365/2-A

Matrix: Water

Analysis Batch: 599506

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 599365

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | | |
|-------------|----------------|---------------|------------------|------|---|------|----------|--|--|
| Perchlorate | 1.00 | 0.988 | J | ug/L | | 99 | 84 - 119 | | |

Lab Sample ID: LCSD 410-599365/3-A

Matrix: Water

Analysis Batch: 599506

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 599365

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-------------|----------------|----------------|-------------------|------|---|------|----------|-----|-------|
| Perchlorate | 1.00 | 0.967 | J | ug/L | | 97 | 84 - 119 | 2 | 15 |

Lab Sample ID: INF 410-599365/4-A

Matrix: Water

Analysis Batch: 599506

Client Sample ID: Lab Control Sample

Prep Batch: 599365

| Analyte | Spike Added | INF Result | INF Qualifier | Unit | D | %Rec | Limits | | |
|-------------|----------------|---------------|------------------|------|---|------|----------|--|--|
| Perchlorate | 1.00 | 1.01 | | ug/L | | 100 | 80 - 120 | | |

QC Association Summary

Client: Chemtech Consulting Group Inc.
Project/Site: Q1107

Job ID: 410-204706-1

LCMS

Prep Batch: 599365

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|----------------------------|-----------|--------|-----------|------------|
| 410-204706-1 | TAPIAL1-MW04S-011525-00-T2 | Total/NA | Water | 6850 Prep | |
| MB 410-599365/1-A | Method Blank | Total/NA | Water | 6850 Prep | |
| INF 410-599365/4-A | Lab Control Sample | | Water | 6850 Prep | |
| LCS 410-599365/2-A | Lab Control Sample | Total/NA | Water | 6850 Prep | |
| LCSD 410-599365/3-A | Lab Control Sample Dup | Total/NA | Water | 6850 Prep | |

Analysis Batch: 599506

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|----------------------------|-----------|--------|--------|------------|
| 410-204706-1 | TAPIAL1-MW04S-011525-00-T2 | Total/NA | Water | 6850 | 599365 |
| MB 410-599365/1-A | Method Blank | Total/NA | Water | 6850 | 599365 |
| INF 410-599365/4-A | Lab Control Sample | | Water | 6850 | 599365 |
| LCS 410-599365/2-A | Lab Control Sample | Total/NA | Water | 6850 | 599365 |
| LCSD 410-599365/3-A | Lab Control Sample Dup | Total/NA | Water | 6850 | 599365 |

Lab Chronicle

Client: Chemtech Consulting Group Inc.
Project/Site: Q1107

Job ID: 410-204706-1

Client Sample ID: TAPIAL1-MW04S-011525-00-T2

Lab Sample ID: 410-204706-1

Matrix: Water

Date Collected: 01/15/25 12:20

Date Received: 01/17/25 09:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|------|----------------------|
| Total/NA | Prep | 6850 Prep | | | 599365 | VVE5 | ELLE | 01/27/25 08:32 |
| Total/NA | Analysis | 6850 | | 1 | 599506 | VVE5 | ELLE | 01/28/25 17:36 |

Laboratory References:

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

Accreditation/Certification Summary

Client: Chemtech Consulting Group Inc.

Job ID: 410-204706-1

Project/Site: Q1107

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

| Authority | Program | Identification Number | Expiration Date |
|--|-----------------------|-----------------------|-----------------|
| A2LA | Dept. of Defense ELAP | 0001.01 | 11-30-26 |
| Rhode Island | State | LAO00338 | 12-30-25 |
| The following analytes are included in this report, but the laboratory is not certified by Rhode Island State LAO00338. This list may include analytes for which the agency does not offer certification : | | | |
| Analysis Method | Prep Method | Matrix | Analyte |
| 6850 | 6850 Prep | Water | Perchlorate |

Method Summary

Client: Chemtech Consulting Group Inc.

Job ID: 410-204706-1

Project/Site: Q1107

| Method | Method Description | Protocol | Laboratory |
|-----------|----------------------------------|----------|------------|
| 6850 | Perchlorate by LC/MS or LC/MS/MS | EPA | ELLE |
| 6850 Prep | Perchlorate Water Prep | EPA | ELLE |

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: Chemtech Consulting Group Inc.
Project/Site: Q1107

Job ID: 410-204706-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|----------------------------|--------|----------------|----------------|
| 410-204706-1 | TAPIAL1-MW04S-011525-00-T2 | Water | 01/15/25 12:20 | 01/17/25 09:50 |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-204706-1

SDG No.: _____

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|----------------------------|----------|-----------|---------------------------------|----------------------|---------------------|--------------|------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| gcs_icvperc2_00004 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_PERICVINT_00012 | 0.04 mL | Perchlorate | 0.4004 ug/L |
| .GCS_PERICVINT_00012 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_perc2nd_00005 | 0.1 mL | Perchlorate | 1001 ug/L |
| ..GCS_perc2nd_00005 | 08/31/26 | | Agilent, Lot 0006689952 | | (Purchased Reagent) | | Perchlorate | 1001 ug/mL |
| gcs_icvperc5_00004 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_PERICVINT_00012 | 0.4 mL | Perchlorate | 4.004 ug/L |
| .GCS_PERICVINT_00012 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_perc2nd_00005 | 0.1 mL | Perchlorate | 1001 ug/L |
| ..GCS_perc2nd_00005 | 08/31/26 | | Agilent, Lot 0006689952 | | (Purchased Reagent) | | Perchlorate | 1001 ug/mL |
| gcs_perc2_00010 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_percalint_00007 | 0.04 mL | Perchlorate | 0.4 ug/L |
| .GCS_percalint_00007 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_PercCal_00004 | 0.1 mL | Perchlorate | 1000 ug/L |
| ..GCS_PercCal_00004 | 10/18/25 | | Accustandard, Lot 223095075 | | (Purchased Reagent) | | Perchlorate | 1000 ug/mL |
| gcs_perc3_00006 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_percalint_00007 | 0.1 mL | Perchlorate | 1 ug/L |
| .GCS_percalint_00007 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_PercCal_00004 | 0.1 mL | Perchlorate | 1000 ug/L |
| ..GCS_PercCal_00004 | 10/18/25 | | Accustandard, Lot 223095075 | | (Purchased Reagent) | | Perchlorate | 1000 ug/mL |
| gcs_perc4_00006 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_percalint_00007 | 0.2 mL | Perchlorate | 2 ug/L |
| .GCS_percalint_00007 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_PercCal_00004 | 0.1 mL | Perchlorate | 1000 ug/L |
| ..GCS_PercCal_00004 | 10/18/25 | | Accustandard, Lot 223095075 | | (Purchased Reagent) | | Perchlorate | 1000 ug/mL |
| gcs_perc5_00006 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_percalint_00007 | 0.4 mL | Perchlorate | 4 ug/L |
| .GCS_percalint_00007 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_PercCal_00004 | 0.1 mL | Perchlorate | 1000 ug/L |
| ..GCS_PercCal_00004 | 10/18/25 | | Accustandard, Lot 223095075 | | (Purchased Reagent) | | Perchlorate | 1000 ug/mL |
| gcs_perc6_00006 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_percalint_00007 | 1 mL | Perchlorate | 10 ug/L |
| .GCS_percalint_00007 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_PercCal_00004 | 0.1 mL | Perchlorate | 1000 ug/L |
| ..GCS_PercCal_00004 | 10/18/25 | | Accustandard, Lot 223095075 | | (Purchased Reagent) | | Perchlorate | 1000 ug/mL |
| gcs_perc7_00006 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_percalint_00007 | 2.5 mL | Perchlorate | 25 ug/L |
| .GCS_percalint_00007 | 02/28/25 | 02/28/24 | DI Water, Lot in house | 100 mL | GCS_PercCal_00004 | 0.1 mL | Perchlorate | 1000 ug/L |
| ..GCS_PercCal_00004 | 10/18/25 | | Accustandard, Lot 223095075 | | (Purchased Reagent) | | Perchlorate | 1000 ug/mL |
| GCS_perc18_00009 | 07/08/25 | 07/08/24 | DI Water, Lot in house | 700 mL | GCS_perc018_00006 | 0.7 mL | 18-O Perchlorate | 100.9 ug/L |
| .GCS_perc018_00006 | 03/16/33 | | Cambridge Isotope, Lot SECL-026 | | (Purchased Reagent) | | 18-O Perchlorate | 100.9 ug/mL |
| GCS_perc18_00010 | 10/16/25 | 10/16/24 | DI Water, Lot in house | 1000 mL | GCS_perc018_00005 | 1 mL | 18-O Perchlorate | 100.6 ug/L |
| .GCS_perc018_00005 | 04/23/31 | | Cambridge Isotope, Lot SEBB-006 | | (Purchased Reagent) | | 18-O Perchlorate | 100.6 ug/mL |
| GCS_PERICVINT_00016 | 01/16/26 | 01/16/25 | DI Water, Lot in house | 100 mL | GCS_perc2nd_00005 | 0.1 mL | Perchlorate | 1001 ug/L |
| .GCS_perc2nd_00005 | 08/31/26 | | Agilent, Lot 0006689952 | | (Purchased Reagent) | | Perchlorate | 1001 ug/mL |

Reagent

GCS_perc2nd_00005

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Expiration of Certification:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Intended Use:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Safety:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

InSTRUCTIONS for USE:

This analytical reference standard was utilized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sample size required.

HOMOGENEITY:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

TRACEABILITY:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) was manufactured when available. The certified value and uncertainty value at the 95% confidence level for each analysis is determined gravimetrically. An ISO 17025 accredited laboratory and compared to calibration standards independently prepared using NIST SRM(s) and verified in accordance with ISO 9001 registered quality system. The analyte concentration(s) were prepared and verified by an ISO 17025 accredited laboratory and compared to calibration standards independently prepared using NIST SRM(s).

DESCRIPTION:

410-5493649



Matrix: Water (low TOC, < 50 ppb)

| Component Name | Concentration | Expanded Uncertainty | CAS# | Analyte Lot |
|--|----------------|----------------------|---------|-------------|
| Potassium perchlorate (as perchlorate) | 1001 ± 5 µg/mL | 00778-74-7 | RMO7987 | |

| | | | |
|---------------------|--|------------------|-------------|
| Product Number: | Perchlorate Standard | Lot Number: | 000669952 |
| Storage Conditions: | Store at Room Temperature (15° to 30°C). | Expiration Date: | 31-Aug-2026 |
| Product Number: | IIC-Q-013 | Lot Issue Date: | 13-Jul-2022 |

Reference Material Certificate

Trusted Answers

Agilent

ISO 17034

No. AR-1936
ISO 17034 Cert



CSD-DA-040.1
www.agilent.com/quality/

Page: 2 of 2

Quality Management System, Cert# 951215321

RM was produced in accordance with the TÜV/SUD registered ISO 9001:2015

No. AT-1937
ISO 17025 Cert



QMS Representative
Monica Bourgeois

Sample lot approvee:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.
Maintenance of Certification:

Trusted Answers



ISO 17034

Reagent

GCS_PercCal_00004

Page 1 of 1

For use in routine laboratory analysis.

Certified By:
W. L. Johnson
Michigan Laboratory, Inorganic & Manager

Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware. Keep bottle tightly capped.
 All bottles are triple rinsed with deionized water prior to use.
 All weights are traceable through NIST Test No. 684/291344-18 & 684/292805-19
 All glassware used in preparation is Class A.
 Type I 18 megohm deionized water.
 We use the highest purity raw materials available to minimize impurity levels in the final solution. Typically 99.999%+ pure starting materials are used as well as ASTM Type I 18 megohm deionized water.
 The final solution was checked against an independent standard to verify its concentration.
 A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.
 This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

| Catalog No: | IC-PER-10X-1 | Description: | Perchlorate Standard | Date Certified: | Sep 18, 2023 | Storage Condition: | Ambient (<5 °C) | SRM #: | AR-1463 | Components: | None | Concentration (µg/mL) | 1000 | Ind. Std. | Perchlorate | CIQ # | |
|-------------|--|------------------------------|----------------------|-----------------|--------------|--------------------|-----------------|--------|---------|-------------|------|-----------------------|------|-----------|-------------|-------|------|
| Hazards: | Refer to SDS for complete safety information | Certified Reference Material | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None |



410-5493648

ACCUTrace™ Reference Standard

AccuStandard®

 Tel (203) 786-5290
 Fax (203) 786-5287
 WWW.AccuStandard.com

 125 Market Street
 New Haven, CT 06513
 USA

Q1107

Rev. 2/5/24

Reagent

GCS_perc018_00005

Reagent

GCS_perc018_00006

Rec'd 6/17/24



Cambridge Isotope Laboratories, Inc.

Certificate of Analysis

Product Name: Perchloric acid, sodium salt ($^{18}\text{O}_4$, 98%)
(Isotopic Label & Enrichment Specification)
100 $\mu\text{g}/\text{mL}$ in water

Lot Number: SECL-026

Catalog Number: OLM-7310-S

Product Information

Chemical Purity Specification: $\geq 98\%$

MW*: 130.44

For isotopically labeled compounds, MW listed is for the fully enriched product.

Labeled CAS Number: 1173022-22-4

$\text{NaCl}^{18}\text{O}_4$

410-6122059



Unlabeled CAS Number: 7601-89-0

Chemical Formula: NaCl^*O_4



410-6122060

Storage: Store at room temperature away from light and moisture.

Stability: See storage and expiration date.

Intended Use: For Research Use Only. Not for use in diagnostic procedures.

Certification

Cambridge Isotope Laboratories, Inc. guarantees that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible. Results are representative of QC testing at time of release from Quality Control unless otherwise stated. CIL Certificates of Analysis are occasionally updated with new data following recertification. We recommend checking the website for the latest version.

Gravimetric concentrations are compensated for the measured Chemical Purity of the neat material. Gravimetry is traceable to the NIST through calibrated balances and certified, calibrated, standard weights. The calibrations are traceable to the SI through NIST. The calibrations also meet specifications outlined in ISO 17034, ISO/IEC 17025, and applicable subdocuments.

This COA references the bulk catalog number before packaging. The COA also applies to the CIL finished good catalog number. Some possible packaging sizes and their corresponding suffix are -1.2, -1, -0.5, -10, or -0.1.

Approved by: Sashi Sivendran-Basak

Sashi Sivendran-Basak, Ph.D., Quality Review

Quality Control Tests and Results

QC Release Date 3/16/2023

Expiration Date 3/16/2033

(continued on next page)

6850_DOD6

Perchlorate by LC/MS or LC/MS/MS

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC Job No.: 410-204706-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 25Jan28-104.d

Lab ID: LCS 410-599365/2-A Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|-------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Perchlorate | 1.00 | 0.988 J | 99 | 84-119 | |

Column to be used to flag recovery and RPD values

FORM III 6850

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-204706-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 25Jan28-105.d

Lab ID: LCSD 410-599365/3-A Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % | REC | QC LIMITS | | # |
|-------------|--------------------------|---------------------------------|-----------|-----|-----------|--------|---|
| | | | | | RPD | REC | |
| Perchlorate | 1.00 | 0.967 J | 97 | 2 | 15 | 84-119 | |

Column to be used to flag recovery and RPD values

FORM III 6850

FORM III
LCMS LC INTERFERENCE CHECK STANDARD RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-204706-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 25Jan28-106.d

Lab ID: INF 410-599365/4-A Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | INF CONCENTRATION (ug/L) | INF % REC | QC LIMITS REC | # |
|-------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Perchlorate | 1.00 | 1.01 | 100 | 80-120 | |

Column to be used to flag recovery and RPD values

FORM III 6850

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-204706-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: 25Jan28-103.d Lab Sample ID: MB 410-599365/1-A

Matrix: Water Date Extracted: 01/27/2025 08:32

Instrument ID: 26719 Date Analyzed: 01/28/2025 16:44

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|----------------------------|---------------------|-------------------|------------------|
| | LCS 410-599365/2-A | 25Jan28-104 .d | 01/28/2025 16:54 |
| | LCSD 410-599365/3-A | 25Jan28-105 .d | 01/28/2025 17:05 |
| TAPIAL1-MW04S-011525-00-T2 | 410-204706-1 | 25Jan28-108 .d | 01/28/2025 17:36 |

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-204706-1

SDG No.: _____

Instrument ID 26719

Calibration Start Date: 01/28/2025 14:59

GC Column: Sielc Obelisc R ID: 2.1 (mm)

Calibration End Date: 01/28/2025 15:51

Calibration ID: 69208

| | 18OP | | # | RT # | # | RT # |
|---|--------------------------------|-------|------|------|---|------|
| | AREA # | RT # | | | | |
| INITIAL CALIBRATION MEAN AREA AND MEAN RT | 55755 | 1.55 | | | | |
| UPPER LIMIT | 83633 | 4.55 | | | | |
| LOWER LIMIT | 27878 | -1.45 | | | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | |
| ICVL 410-599999/8 | | 63247 | 1.55 | | | |
| ICV 410-599999/9 | | 51568 | 1.55 | | | |
| CCVIS 410-599506/2 | | 63737 | 1.55 | | | |
| MB 410-599365/1-A | | 52485 | 1.55 | | | |
| LCS 410-599365/2-A | | 60534 | 1.55 | | | |
| LCSD 410-599365/3-A | | 57177 | 1.55 | | | |
| INF 410-599365/4-A | | 36252 | 1.55 | | | |
| 410-204706-1 | TAPIAL1-MW04S-01152 5-00-T2 | 44580 | 1.55 | | | |
| CCV 410-599506/19 | | 63777 | 1.55 | | | |

18OP = 18-O Perchlorate

Area Limit = 50%-150% of internal standard area
RT Limit = ± 3 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-204706-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: TAPIAL1-MW04S-011525-00-T Lab Sample ID: 410-204706-1
2

Matrix: Water Lab File ID: 25Jan28-108.d

Analysis Method: 6850 Date Collected: 01/15/2025 12:20

Extraction Method: 6850 Prep Date Extracted: 01/27/2025 08:32

Sample wt/vol: 10.0 (mL) Date Analyzed: 01/28/2025 17:36

Con. Extract Vol.: 10.0 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Sielc Obelisc R ID: 2.1 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 599506 Units: ug/L

Preparation Batch No.: 599365 Instrument ID: 26719

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|------------|---------------|--------|---|-----|------|------|
| 14797-73-0 | Perchlorate | 0.35 | J | 1.0 | 0.40 | 0.20 |

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\25Jan28-108.d
 Lims ID: 410-204706-B-1-A
 Client ID: TAPIAL1-MW04S-011525-00-T2
 Sample Type: Client
 Inject. Date: 28-Jan-2025 17:36:27 ALS Bottle#: 56 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: 410-204706-B-1-A
 Misc. Info.: Plate: 1 Rack: 1 410-0136579-008
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Method: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 29-Jan-2025 09:50:14 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1653

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

| | | | | | | | | | |
|----------------------|-------|-------|--------|-------|-------|-----------------|-------------|------|--|
| 107.00 > 89.00 | 1.549 | 1.549 | 0.0 | | 44580 | 1.01 | | 1405 | |
| 1 Perchlorate | | | | | | | | | |
| 99.00 > 83.00 | 1.554 | 1.554 | 0.0 | 1.003 | 19762 | 0.3509 | Target=0.00 | 21.1 | |
| 101.00 > 85.00 | 1.549 | 1.554 | -0.005 | 1.000 | 6574 | 3.01(0.00-0.00) | | 16.2 | |

Report Date: 29-Jan-2025 09:50:18

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250127-136579.b\\25Jan28-108.d

Injection Date: 28-Jan-2025 17:36:27

Instrument ID: 26719

Lims ID: 410-204706-B-1-A

Lab Sample ID: 410-204706-1

Client ID: TAPIAL1-MW04S-011525-00-T2

Operator ID: ETUS023_USR_INS00047

ALS Bottle#: 56 Worklist Smp#: 8

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

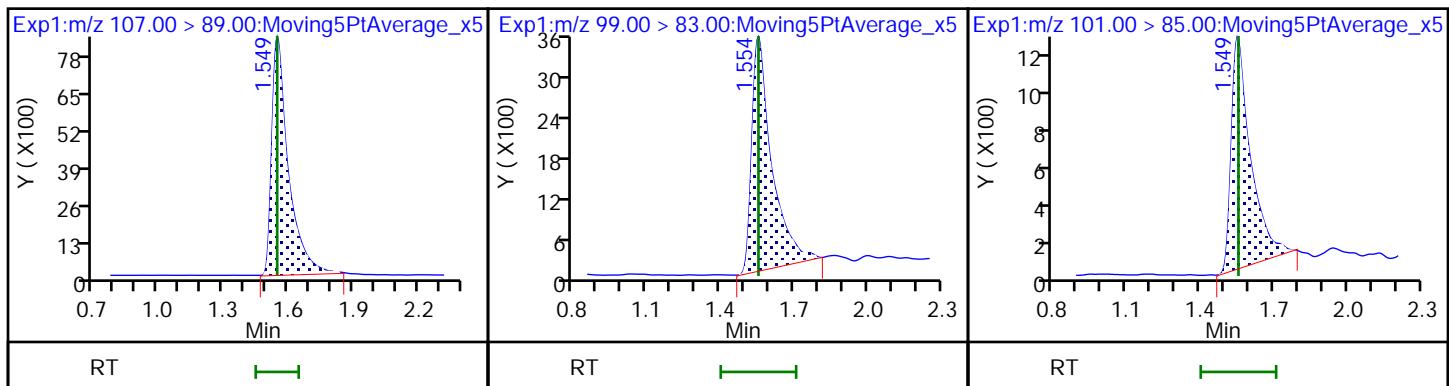
Method: perchlorate_26719

Limit Group: LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



FORM VI
LCMS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-204706-1

Analy Batch No.: 599999

SDG No.:

Instrument ID: 26719

GC Column: Sielc Obelis ID: 2.1 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2025 14:59

Calibration End Date: 01/28/2025 15:51

Calibration ID: 69208

Calibration Files

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|---------------------|---------------|
| Level 1 | IC 410-599999/2 | 25jan28-002.d |
| Level 2 | IC 410-599999/3 | 25jan28-003.d |
| Level 3 | IC 410-599999/4 | 25jan28-004.d |
| Level 4 | ICISAV 410-599999/5 | 25jan28-005.d |
| Level 5 | IC 410-599999/6 | 25jan28-006.d |
| Level 6 | IC 410-599999/7 | 25jan28-007.d |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD /RSE | # | MAX %RSD /RSE | R^2 OR COD | # | MIN R^2 OR COD |
|-------------|------------------|--------|--------|--------|--------|---------------|-------------|------------|----|---|---------|--------------|---|---------------------|---------------|---|-------------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Perchlorate | 1.2969 1.2178 | 1.2138 | 1.2025 | 1.2340 | 1.2125 | Lin1 | 0.019 6 | 1.215 2 | | | | | | | 1.0000 | | 0.9900 |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
LCMS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-204706-1

Analy Batch No.: 599999

SDG No.:

Instrument ID: 26719

GC Column: Sielc Obeli ID: 2.1 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2025 14:59

Calibration End Date: 01/28/2025 15:51

Calibration ID: 69208

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|---------------------|---------------|
| Level 1 | IC 410-599999/2 | 25jan28-002.d |
| Level 2 | IC 410-599999/3 | 25jan28-003.d |
| Level 3 | IC 410-599999/4 | 25jan28-004.d |
| Level 4 | ICISAV 410-599999/5 | 25jan28-005.d |
| Level 5 | IC 410-599999/6 | 25jan28-006.d |
| Level 6 | IC 410-599999/7 | 25jan28-007.d |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|-------------|--------|------------|------------------|-------|--------|--------|--------|----------------------|-------|-------|-------|-------|
| | | | LVL 1 LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Perchlorate | 18OP | Lin1 | 27207 1760569 | 61958 | 141623 | 309255 | 602244 | 0.400 25.0 | 1.00 | 2.00 | 4.00 | 10.0 |

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

FORM VI
LCMS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC Job No.: 410-204706-1 Analy Batch No.: 599999

SDG No.: _____

Instrument ID: 26719 GC Column: Sielc Obelis ID: 2.1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2025 14:59 Calibration End Date: 01/28/2025 15:51 Calibration ID: 69208

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|---------------------|---------------|
| Level 1 | IC 410-599999/2 | 25jan28-002.d |
| Level 2 | IC 410-599999/3 | 25jan28-003.d |
| Level 3 | IC 410-599999/4 | 25jan28-004.d |
| Level 4 | ICISAV 410-599999/5 | 25jan28-005.d |
| Level 5 | IC 410-599999/6 | 25jan28-006.d |
| Level 6 | IC 410-599999/7 | 25jan28-007.d |

| ANALYTE | PERCENT ERROR | | | | | | PERCENT ERROR LIMIT | | | | | |
|-------------|---------------|---------|---------|---------|---------|---------|---------------------|-------|-------|-------|-------|-------|
| | LVL 1 # | LVL 2 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
| Perchlorate | 2.7 | -1.7 | -1.9 | 1.1 | -0.4 | 0.1 | 50 | 30 | 30 | 30 | 30 | 30 |

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-002.d
 Lims ID: IC perc2
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 28-Jan-2025 14:59:38 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC perc2
 Misc. Info.: Plate: 1 Rack: 1 410-0136709-002
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Sublist: chrom-perchlorate_26719*sub1
 Method: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 28-Jan-2025 17:12:11 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1687

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

| | | | | | | | | |
|----------------|-------|-------|--------|-------|-------|--------|-----------------|------|
| 107.00 > 89.00 | 1.549 | 1.549 | 0.0 | | 52762 | 1.01 | | 1030 |
| 1 Perchlorate | | | | | | | | |
| 99.00 > 83.00 | 1.549 | 1.554 | -0.005 | 1.000 | 27207 | 0.4108 | Target=0.00 | 25.2 |
| 101.00 > 85.00 | 1.549 | 1.554 | -0.005 | 1.000 | 9387 | | 2.90(0.00-0.00) | 19.7 |

Reagents:

| | | |
|------------------|--------------------|-----------|
| gcs_perc2_00010 | Amount Added: 1.00 | Units: mL |
| GCS_perc1S_00010 | Amount Added: 0.01 | Units: mL |

Report Date: 28-Jan-2025 17:12:11

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250128-136709.b\\25jan28-002.d

Injection Date: 28-Jan-2025 14:59:38

Instrument ID: 26719

Lims ID: IC perc2

Client ID:

Operator ID: ETUS023_USR_INS00047 ALS Bottle#: 2 Worklist Smp#: 2

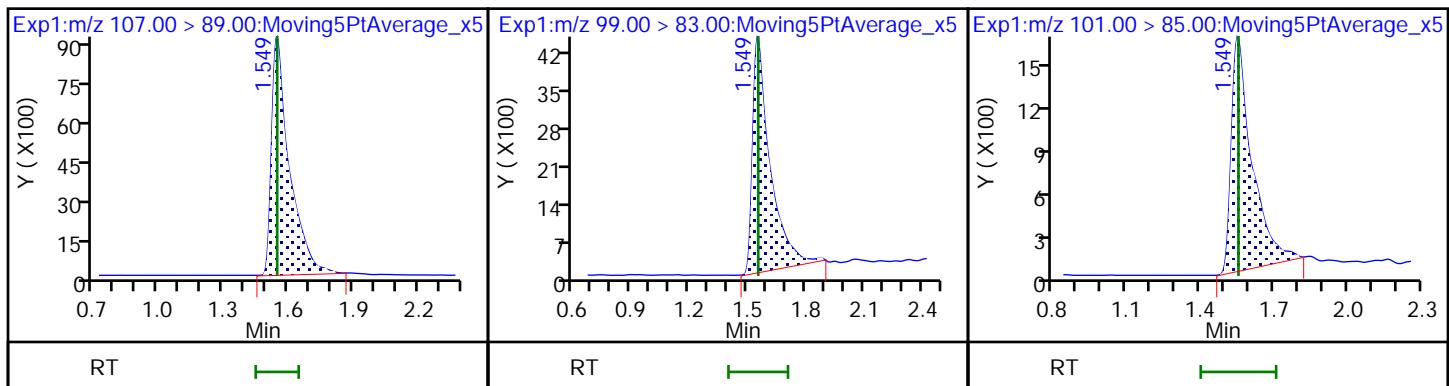
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: perchlorate_26719 Limit Group: LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-003.d
 Lims ID: IC perc3
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 28-Jan-2025 15:10:07 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC perc3
 Misc. Info.: Plate: 1 Rack: 1 410-0136709-003
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Sublist: chrom-perchlorate_26719*sub1
 Method: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 28-Jan-2025 17:12:11 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1687

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

107.00 > 89.00 1.549 1.549 0.0 51352 1.01 1444

1 Perchlorate

99.00 > 83.00 1.554 1.554 0.0 1.003 61958 0.9827 Target=0.00 59.3

101.00 > 85.00 1.554 1.554 0.0 1.003 22568 2.75(0.00-0.00) 44.8

Reagents:

gcs_perc3_00006 Amount Added: 1.00 Units: mL

GCS_perc1S_00010 Amount Added: 0.01 Units: mL

Report Date: 28-Jan-2025 17:12:12

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250128-136709.b\\25jan28-003.d

Injection Date: 28-Jan-2025 15:10:07

Instrument ID: 26719

Lims ID: IC perc3

Client ID:

Operator ID: ETUS023_USR_INS00047

ALS Bottle#: 3 Worklist Smp#: 3

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

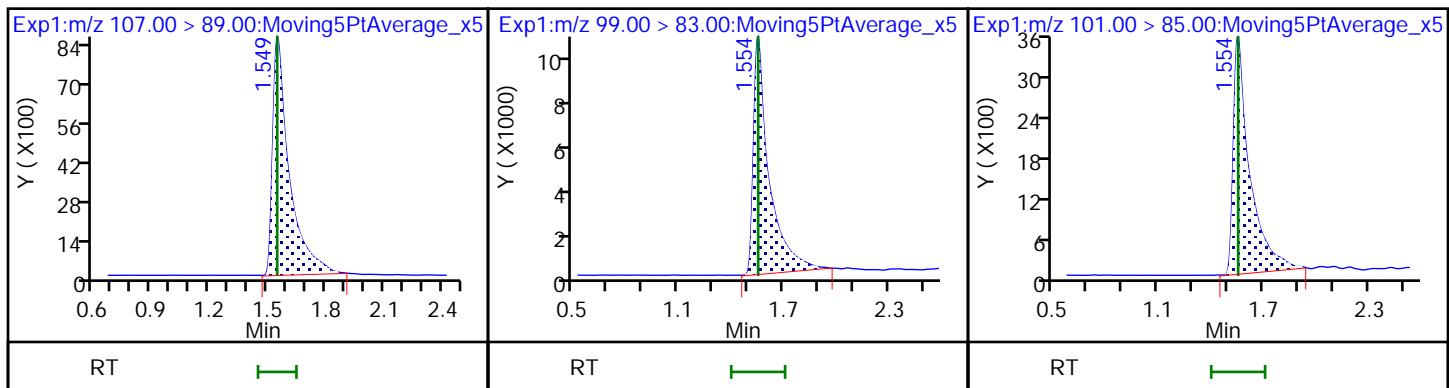
Method: perchlorate_26719

Limit Group: LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-004.d
 Lims ID: IC perc4
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 28-Jan-2025 15:20:35 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC perc4
 Misc. Info.: Plate: 1 Rack: 1 410-0136709-004
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Sublist: chrom-perchlorate_26719*sub1
 Method: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 28-Jan-2025 17:12:12 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1687

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

107.00 > 89.00 1.549 1.549 0.0 59241 1.01 543

1 Perchlorate

99.00 > 83.00 1.554 1.554 0.0 1.003 141623 1.96 Target=0.00 124

101.00 > 85.00 1.549 1.554 -0.005 1.000 53541 2.65(0.00-0.00) 104

Reagents:

| | | |
|-------------------|--------------------|-----------|
| gcs_perc4_00006 | Amount Added: 1.00 | Units: mL |
| GCS_percIIS_00010 | Amount Added: 0.01 | Units: mL |

Report Date: 28-Jan-2025 17:12:12

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250128-136709.b\\25jan28-004.d

Injection Date: 28-Jan-2025 15:20:35

Instrument ID: 26719

Lims ID: IC perc4

Client ID:

Operator ID: ETUS023_USR_INS00047

ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 10.0 ul

Dil. Factor: 1.0000

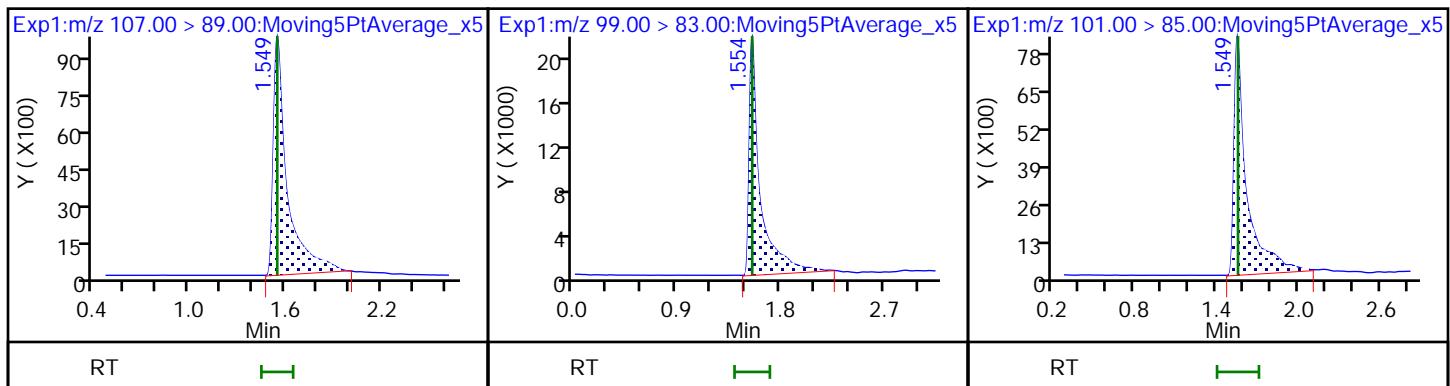
Method: perchlorate_26719

Limit Group: LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-005.d
 Lims ID: ICISAV perc5
 Client ID:
 Sample Type: ICISAV Calib Level: 4
 Inject. Date: 28-Jan-2025 15:31:01 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICISAV perc5
 Misc. Info.: Plate: 1 Rack: 1 410-0136709-005
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Sublist: chrom-perchlorate_26719*sub1
 Method: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 28-Jan-2025 17:12:13 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1687

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

107.00 > 89.00 1.549 1.549 0.0 63031 1.01 793

1 Perchlorate

99.00 > 83.00 1.554 1.554 0.0 1.003 309255 4.05 Target=0.00 286

101.00 > 85.00 1.554 1.554 0.0 1.003 118667 2.61(0.00-0.00) 241

Reagents:

| | | |
|------------------|--------------------|-----------|
| gcs_perc5_00006 | Amount Added: 1.00 | Units: mL |
| GCS_perc1S_00010 | Amount Added: 0.01 | Units: mL |

Report Date: 28-Jan-2025 17:12:13

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250128-136709.b\\25jan28-005.d

Injection Date: 28-Jan-2025 15:31:01

Instrument ID: 26719

Lims ID: ICISAV perc5

Client ID:

Operator ID: ETUS023_USR_INS00047

ALS Bottle#:

5

Worklist Smp#:

5

Injection Vol: 10.0 ul

Dil. Factor:

1.0000

Method: perchlorate_26719

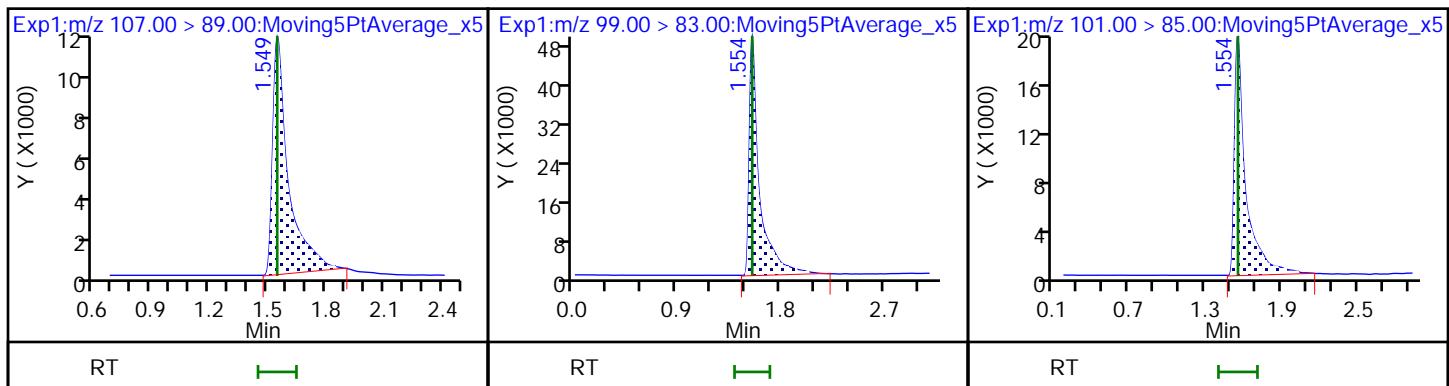
Limit Group:

LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-006.d
 Lims ID: IC perc6
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 28-Jan-2025 15:41:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC perc6
 Misc. Info.: Plate: 1 Rack: 1 410-0136709-006
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Sublist: chrom-perchlorate_26719*sub1
 Method: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 28-Jan-2025 17:12:14 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1687

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

107.00 > 89.00 1.549 1.549 0.0 49969 1.01 1130

1 Perchlorate

99.00 > 83.00 1.549 1.554 -0.005 1.000 602244 9.96 Target=0.00 512

101.00 > 85.00 1.549 1.554 -0.005 1.000 222313 2.71(0.00-0.00) 423

Reagents:

| | | |
|------------------|--------------------|-----------|
| gcs_perc6_00006 | Amount Added: 1.00 | Units: mL |
| GCS_perc1S_00010 | Amount Added: 0.01 | Units: mL |

Report Date: 28-Jan-2025 17:12:14

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250128-136709.b\\25jan28-006.d

Injection Date: 28-Jan-2025 15:41:30

Instrument ID: 26719

Lims ID: IC perc6

Client ID:

Operator ID: ETUS023_USR_INS00047 ALS Bottle#: 6 Worklist Smp#: 6

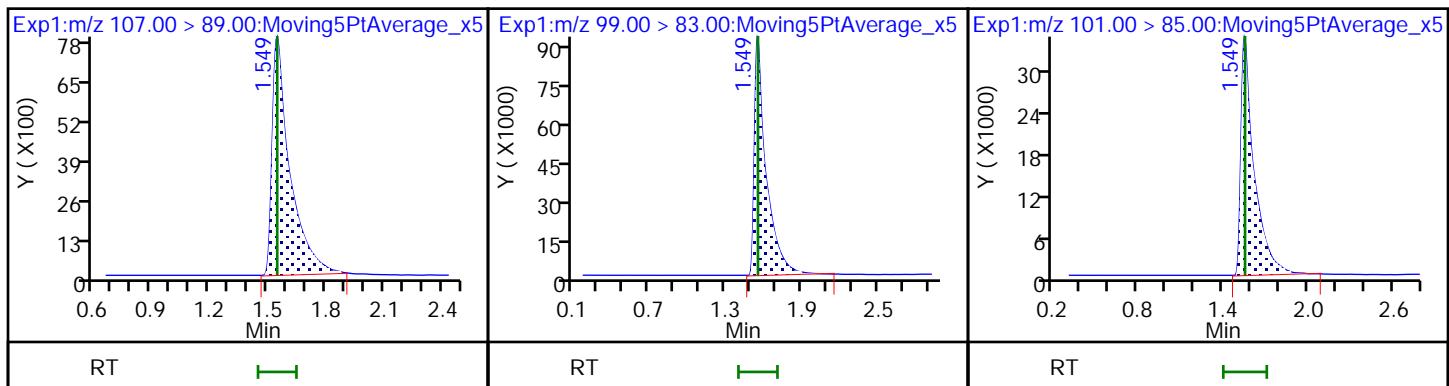
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: perchlorate_26719 Limit Group: LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Lims ID: IC perc7
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 28-Jan-2025 15:51:56 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: IC perc7
 Misc. Info.: Plate: 1 Rack: 1 410-0136709-007
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Sublist: chrom-perchlorate_26719*sub1
 Method: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 28-Jan-2025 17:12:10 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1687

First Level Reviewer: UAD3 Date: 28-Jan-2025 17:12:10

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

| | | | | | | | | |
|----------------|-------|-------|-----|-------|---------|-----------------|-------------|------|
| 107.00 > 89.00 | 1.549 | 1.549 | 0.0 | | 58173 | 1.01 | | 1515 |
| 1 Perchlorate | | | | | | | | |
| 99.00 > 83.00 | 1.554 | 1.554 | 0.0 | 1.003 | 1760569 | 25.0 | Target=0.00 | 1781 |
| 101.00 > 85.00 | 1.554 | 1.554 | 0.0 | 1.003 | 628761 | 2.80(0.00-0.00) | | 1410 |

QC Flag Legend

Processing Flags

Reagents:

| | | |
|------------------|--------------------|-----------|
| gcs_perc7_00006 | Amount Added: 1.00 | Units: mL |
| GCS_perclS_00010 | Amount Added: 0.01 | Units: mL |

Report Date: 28-Jan-2025 17:12:10

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250128-136709.b\\25jan28-007.d

Injection Date: 28-Jan-2025 15:51:56

Instrument ID: 26719

Lims ID: IC perc7

Client ID:

Operator ID: ETUS023_USR_INS00047

ALS Bottle#:

7

Worklist Smp#:

7

Injection Vol: 10.0 ul

Dil. Factor:

1.0000

Method: perchlorate_26719

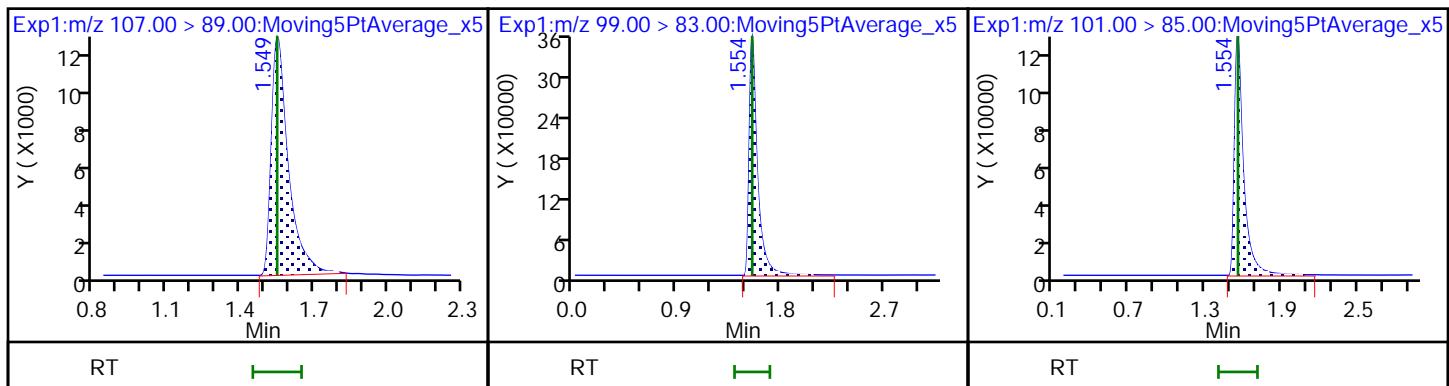
Limit Group:

LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



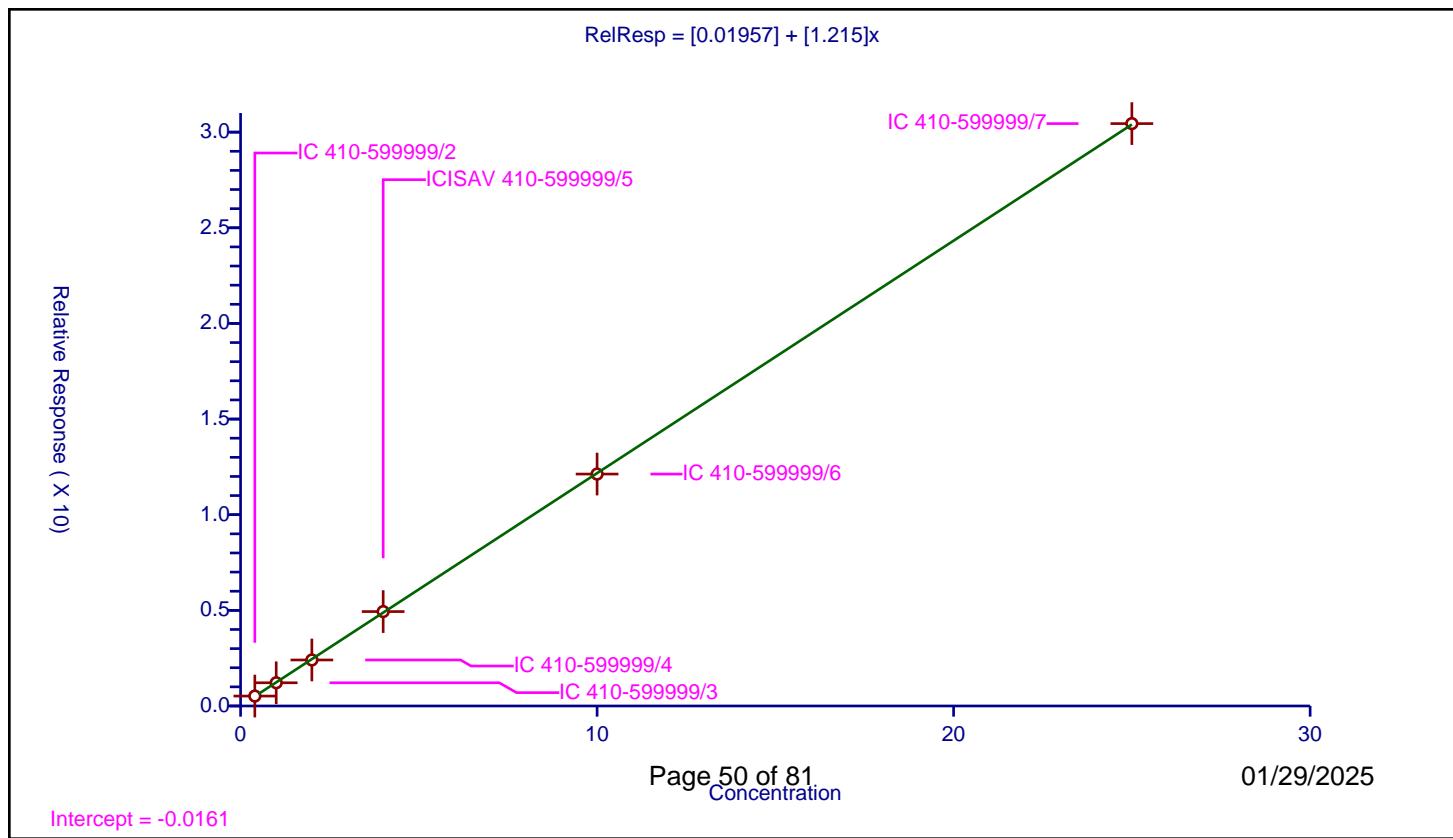
Calibration

/ Perchlorate

| | |
|----------------|----------|
| Curve Type: | Linear |
| Weighting: | Conc |
| Origin: | None |
| Dependency: | Response |
| Calib Mode: | ISTD |
| Response Base: | AREA |
| RF Rounding: | 0 |

| Curve Coefficients | |
|------------------------------|---------|
| Intercept: | 0.01957 |
| Slope: | 1.215 |
| Error Coefficients | |
| Relative Standard Deviation: | 1.9 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 410-599999/2 | 0.4 | 0.518749 | 1.006 | 52762.0 | 1.296873 | Y |
| 2 | IC 410-599999/3 | 1.0 | 1.213774 | 1.006 | 51352.0 | 1.213774 | Y |
| 3 | IC 410-599999/4 | 2.0 | 2.404968 | 1.006 | 59241.0 | 1.202484 | Y |
| 4 | ICISAV 410-599999/5 | 4.0 | 4.935834 | 1.006 | 63031.0 | 1.233958 | Y |
| 5 | IC 410-599999/6 | 10.0 | 12.124667 | 1.006 | 49969.0 | 1.212467 | Y |
| 6 | IC 410-599999/7 | 25.0 | 30.445953 | 1.006 | 58173.0 | 1.217838 | Y |



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-204706-1
Environment Testing, LLC

SDG No.: _____

Lab Sample ID: ICVL 410-599999/8 Calibration Date: 01/28/2025 16:02

Instrument ID: 26719 Calib Start Date: 01/28/2025 14:59

GC Column: Sielc Obelisc R ID: 2.10 (mm) Calib End Date: 01/28/2025 15:51

Lab File ID: 25jan28-008.d Conc. Units: ug/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %REC | %REC LIMITS |
|-------------|------------|---------|-----|---------|-------------|--------------|------|-------------|
| Perchlorate | Lin1 | | | | 0.435 | 0.400 | 109 | |

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-008.d
 Lims ID: ICVL iper2
 Client ID:
 Sample Type: ICVL
 Inject. Date: 28-Jan-2025 16:02:25 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICVL iper2
 Misc. Info.: Plate: 1 Rack: 1 410-0136709-008
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 28-Jan-2025 17:12:14 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1687

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

107.00 > 89.00 1.549 1.549 0.0 63247 1.01 1568

1 Perchlorate

99.00 > 83.00 1.554 1.554 0.0 1.003 34460 0.4349 Target=0.00 37.8

101.00 > 85.00 1.549 1.554 -0.005 1.000 12334 2.79(0.00-0.00) 31.9

Reagents:

| | | |
|--------------------|--------------------|-----------|
| GCS_perclS_00010 | Amount Added: 0.01 | Units: mL |
| gcs_icvperc2_00004 | Amount Added: 1.00 | Units: mL |

Report Date: 28-Jan-2025 17:12:23

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250128-136709.b\\25jan28-008.d

Injection Date: 28-Jan-2025 16:02:25

Instrument ID: 26719

Lims ID: ICVL iper2

Client ID:

Operator ID: ETUS023_USR_INS00047 ALS Bottle#: 8 Worklist Smp#: 8

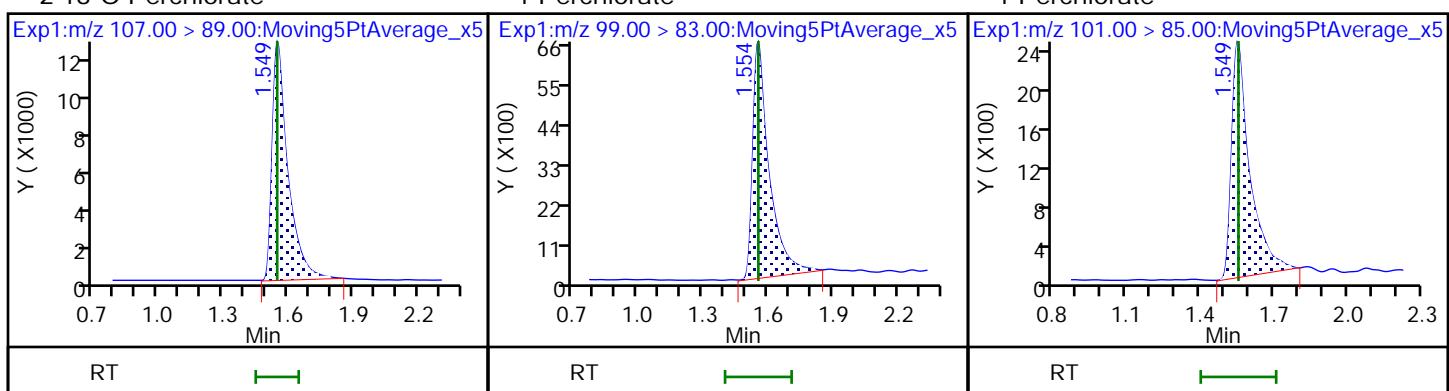
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: perchlorate_26719 Limit Group: LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC Job No.: 410-204706-1

SDG No.: _____

Lab Sample ID: ICV 410-599999/9 Calibration Date: 01/28/2025 16:12

Instrument ID: 26719 Calib Start Date: 01/28/2025 14:59

GC Column: Sielc Obelisc R ID: 2.10 (mm) Calib End Date: 01/28/2025 15:51

Lab File ID: 25jan28-009.d Conc. Units: ug/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-------------|------------|---------|-------|---------|-------------|--------------|-----|--------|
| Perchlorate | Lin1 | | 1.259 | | 4.13 | 4.00 | 3.2 | 15.0 |

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-009.d
 Lims ID: ICV iper5
 Client ID:
 Sample Type: ICV
 Inject. Date: 28-Jan-2025 16:12:53 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: ICV iper5
 Misc. Info.: Plate: 1 Rack: 1 410-0136709-009
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 28-Jan-2025 17:12:24 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1687

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

107.00 > 89.00 1.549 1.549 0.0 51568 1.01 1417

1 Perchlorate

99.00 > 83.00 1.554 1.554 0.0 1.003 258315 4.13 Target=0.00 273

101.00 > 85.00 1.549 1.554 -0.005 1.000 89832 2.88(0.00-0.00) 208

Reagents:

| | | |
|--------------------|--------------------|-----------|
| GCS_perclS_00010 | Amount Added: 0.01 | Units: mL |
| gcs_icvperc5_00004 | Amount Added: 1.00 | Units: mL |

Report Date: 28-Jan-2025 17:12:24

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250128-136709.b\\25jan28-009.d

Injection Date: 28-Jan-2025 16:12:53

Instrument ID: 26719

Lims ID: ICV iper5

Client ID:

Operator ID: ETUS023_USR_INS00047

ALS Bottle#:

9

Worklist Smp#:

9

Injection Vol: 10.0 ul

Dil. Factor:

1.0000

Method: perchlorate_26719

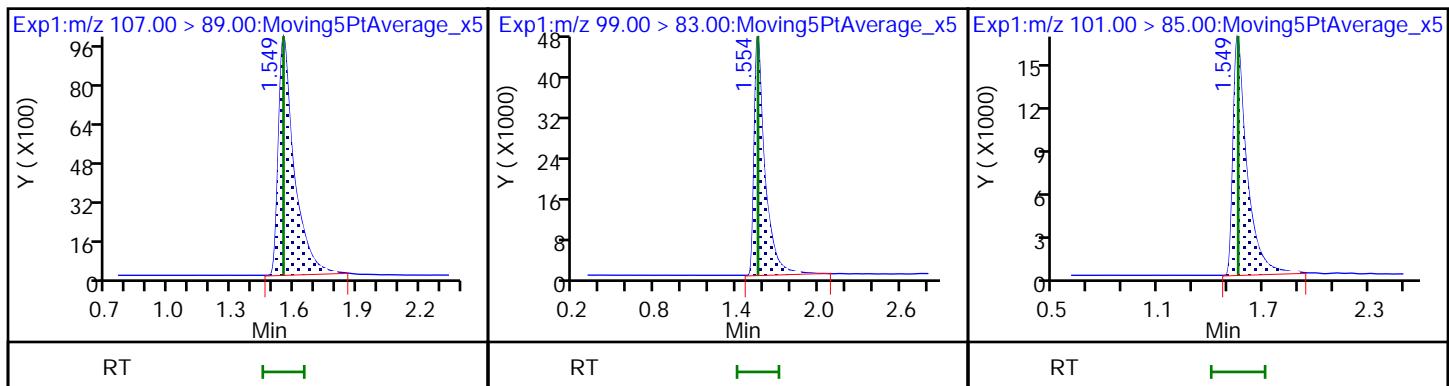
Limit Group:

LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC Job No.: 410-204706-1

SDG No.: _____

Lab Sample ID: CCVIS 410-599506/2 Calibration Date: 01/28/2025 16:33

Instrument ID: 26719 Calib Start Date: 01/28/2025 14:59

GC Column: Sielc Obelisc R ID: 2.10 (mm) Calib End Date: 01/28/2025 15:51

Lab File ID: 25Jan28-102.d Conc. Units: ug/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-------------|------------|---------|-------|---------|-------------|--------------|------|--------|
| Perchlorate | Lin1 | | 1.192 | | 3.91 | 4.00 | -2.3 | 15.0 |

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\25Jan28-102.d
 Lims ID: CCVIS PERC5
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Jan-2025 16:33:50 ALS Bottle#: 5 Worklist Smp#: 2
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCVIS PERC5
 Misc. Info.: Plate: 1 Rack: 1 410-0136579-002
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Sublist: chrom-perchlorate_26719*sub1
 Method: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 29-Jan-2025 09:50:14 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1653

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

107.00 > 89.00 1.549 1.549 0.0 63737 1.01 1535

1 Perchlorate

99.00 > 83.00 1.554 1.554 0.0 1.003 301401 3.91 Target=0.00 280

101.00 > 85.00 1.549 1.554 -0.005 1.000 111230 2.71(0.00-0.00) 229

Reagents:

| | | |
|--------------------|--------------------|-----------|
| gcs_icvperc5_00004 | Amount Added: 1.00 | Units: mL |
| GCS_percIS_00009 | Amount Added: 0.01 | Units: mL |

Report Date: 29-Jan-2025 09:50:15

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250127-136579.b\\25Jan28-102.d

Injection Date: 28-Jan-2025 16:33:50

Instrument ID: 26719

Lims ID: CCVIS PERC5

Client ID:

Operator ID: ETUS023_USR_INS00047

ALS Bottle#:

5

Worklist Smp#:

2

Injection Vol: 10.0 ul

Dil. Factor:

1.0000

Method: perchlorate_26719

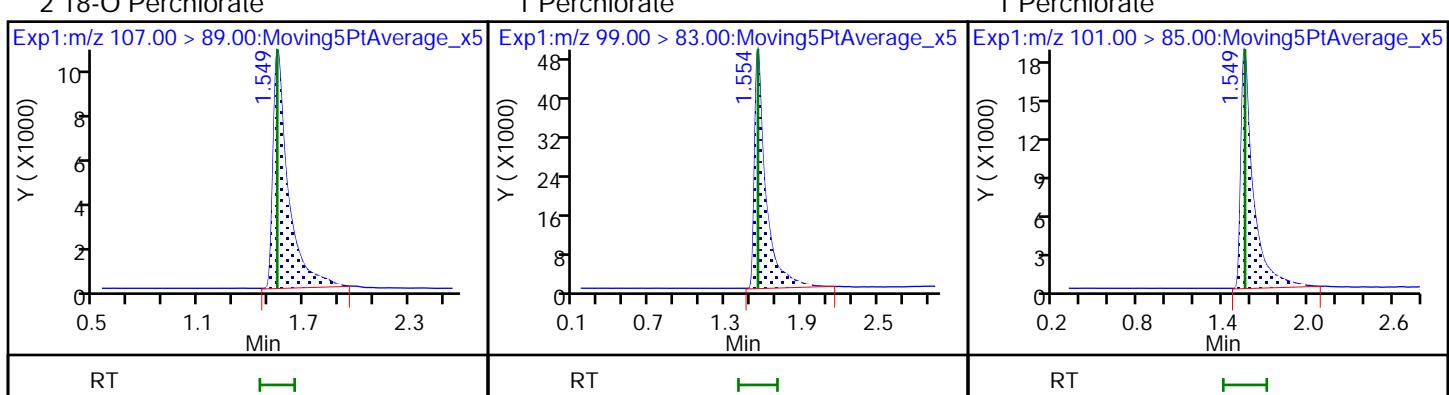
Limit Group:

LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC Job No.: 410-204706-1

SDG No.: _____

Lab Sample ID: CCV 410-599506/19 Calibration Date: 01/28/2025 19:31

Instrument ID: 26719 Calib Start Date: 01/28/2025 14:59

GC Column: Sielc Obelisc R ID: 2.10 (mm) Calib End Date: 01/28/2025 15:51

Lab File ID: 25Jan28-119.d Conc. Units: ug/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-------------|------------|---------|-------|---------|-------------|--------------|------|--------|
| Perchlorate | Lin1 | | 1.188 | | 3.90 | 4.00 | -2.6 | 15.0 |

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\25Jan28-119.d
 Lims ID: CCV 2 PERC5
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Jan-2025 19:31:29 ALS Bottle#: 5 Worklist Smp#: 19
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV 2 PERC5
 Misc. Info.: Plate: 1 Rack: 1 410-0136579-019
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Sublist: chrom-perchlorate_26719*sub1
 Method: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 29-Jan-2025 09:50:19 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1653

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

107.00 > 89.00 1.549 1.549 0.0 63777 1.01 2148

1 Perchlorate

99.00 > 83.00 1.554 1.554 0.0 1.003 300662 3.90 Target=0.00 285

101.00 > 85.00 1.554 1.554 0.0 1.003 110425 2.72(0.00-0.00) 233

Reagents:

| | | |
|--------------------|--------------------|-----------|
| gcs_icvperc5_00004 | Amount Added: 1.00 | Units: mL |
| GCS_percIS_00009 | Amount Added: 0.01 | Units: mL |

Report Date: 29-Jan-2025 09:50:20

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250127-136579.b\\25Jan28-119.d

Injection Date: 28-Jan-2025 19:31:29

Instrument ID: 26719

Lims ID: CCV 2 PERC5

Client ID:

Operator ID: ETUS023_USR_INS00047

ALS Bottle#:

5

Worklist Smp#:

19

Injection Vol: 10.0 ul

Dil. Factor:

1.0000

Method: perchlorate_26719

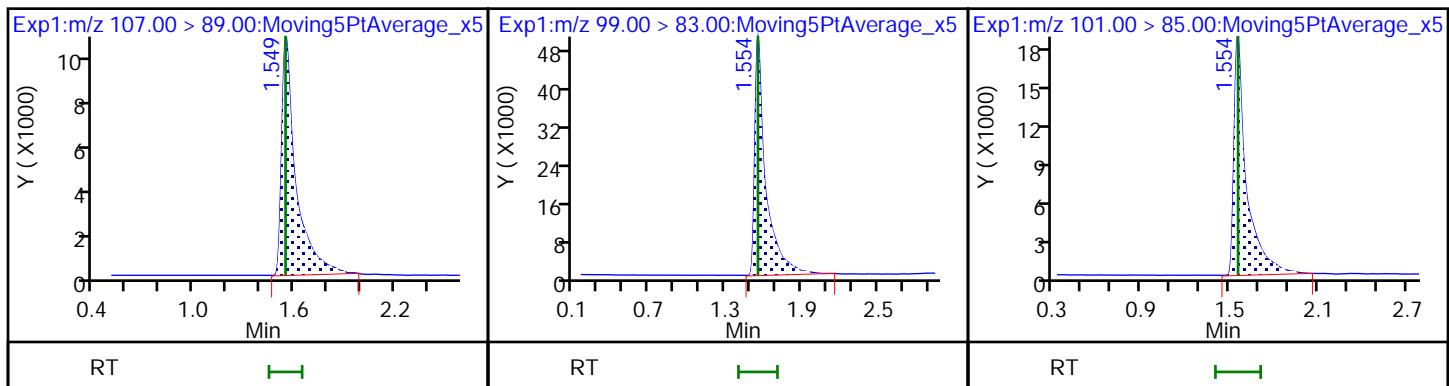
Limit Group:

LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-204706-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-599365/1-A

Matrix: Water Lab File ID: 25Jan28-103.d

Analysis Method: 6850 Date Collected: _____

Extraction Method: 6850 Prep Date Extracted: 01/27/2025 08:32

Sample wt/vol: 10.0 (mL) Date Analyzed: 01/28/2025 16:44

Con. Extract Vol.: 10.0 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Sielc Obelisc R ID: 2.1 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 599506 Units: ug/L

Preparation Batch No.: 599365 Instrument ID: 26719

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|------------|---------------|--------|---|-----|------|------|
| 14797-73-0 | Perchlorate | ND | | 1.0 | 0.40 | 0.20 |

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\25Jan28-103.d
 Lims ID: MB 410-599365/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 28-Jan-2025 16:44:16 ALS Bottle#: 51 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: MB 410-599365/1-A
 Misc. Info.: Plate: 1 Rack: 1 410-0136579-003
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Method: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 29-Jan-2025 09:50:14 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1653

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

| | | | | | | | | | |
|----------------------|-------|-------|-------|-------|-------|--------|-----------------|------|--|
| 107.00 > 89.00 | 1.549 | 1.549 | 0.0 | | 52485 | 1.01 | | 1978 | |
| 1 Perchlorate | | | | | | | | | |
| 99.00 > 83.00 | 1.654 | 1.554 | 0.100 | 1.068 | 1969 | 0.0150 | Target=0.00 | 0.9 | |
| 101.00 > 85.00 | 1.644 | 1.554 | 0.090 | 1.061 | 613 | | 3.21(0.00-0.00) | 0.8 | |

Report Date: 29-Jan-2025 09:50:15

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250127-136579.b\\25Jan28-103.d

Injection Date: 28-Jan-2025 16:44:16

Instrument ID: 26719

Lims ID: MB 410-599365/1-A

Client ID:

Operator ID: ETUS023_USR_INS00047

ALS Bottle#:

51

Worklist Smp#:

3

Injection Vol: 10.0 ul

Dil. Factor:

1.0000

Method: perchlorate_26719

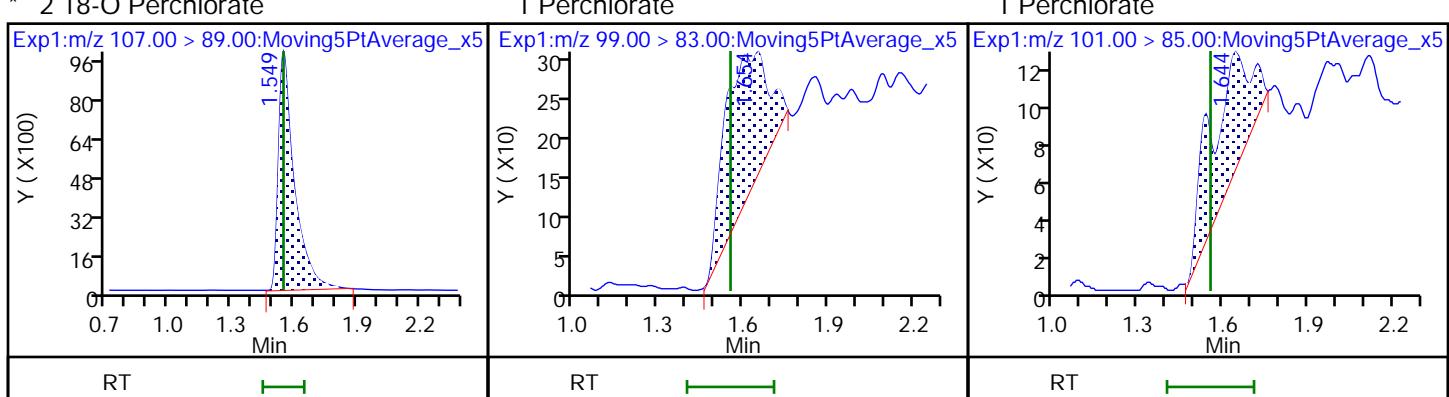
Limit Group:

LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-204706-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-599365/2-A

Matrix: Water Lab File ID: 25Jan28-104.d

Analysis Method: 6850 Date Collected: _____

Extraction Method: 6850 Prep Date Extracted: 01/27/2025 08:32

Sample wt/vol: 10.0 (mL) Date Analyzed: 01/28/2025 16:54

Con. Extract Vol.: 10.0 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Sielc Obelisc R ID: 2.1 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 599506 Units: ug/L

Preparation Batch No.: 599365 Instrument ID: 26719

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|------------|---------------|--------|---|-----|------|------|
| 14797-73-0 | Perchlorate | 0.988 | J | 1.0 | 0.40 | 0.20 |

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\25Jan28-104.d
 Lims ID: LCS 410-599365/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 28-Jan-2025 16:54:42 ALS Bottle#: 52 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 410-599365/2-A
 Misc. Info.: Plate: 1 Rack: 1 410-0136579-004
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Method: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 29-Jan-2025 09:50:14 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICAL File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1653

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

| | | | | | | | | |
|----------------------|-------|-------|-------|-------|-------|-----------------|-------------|------|
| 107.00 > 89.00 | 1.554 | 1.549 | 0.005 | | 60534 | 1.01 | | 1938 |
| 1 Perchlorate | | | | | | | | |
| 99.00 > 83.00 | 1.554 | 1.554 | 0.0 | 1.000 | 73436 | 0.9881 | Target=0.00 | 78.2 |
| 101.00 > 85.00 | 1.554 | 1.554 | 0.0 | 1.000 | 27184 | 2.70(0.00-0.00) | | 61.6 |

Report Date: 29-Jan-2025 09:50:16

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250127-136579.b\\25Jan28-104.d

Injection Date: 28-Jan-2025 16:54:42

Instrument ID: 26719

Lims ID: LCS 410-599365/2-A

Client ID:

Operator ID: ETUS023_USR_INS00047

ALS Bottle#:

52

Worklist Smp#:

4

Injection Vol: 10.0 ul

Dil. Factor:

1.0000

Method: perchlorate_26719

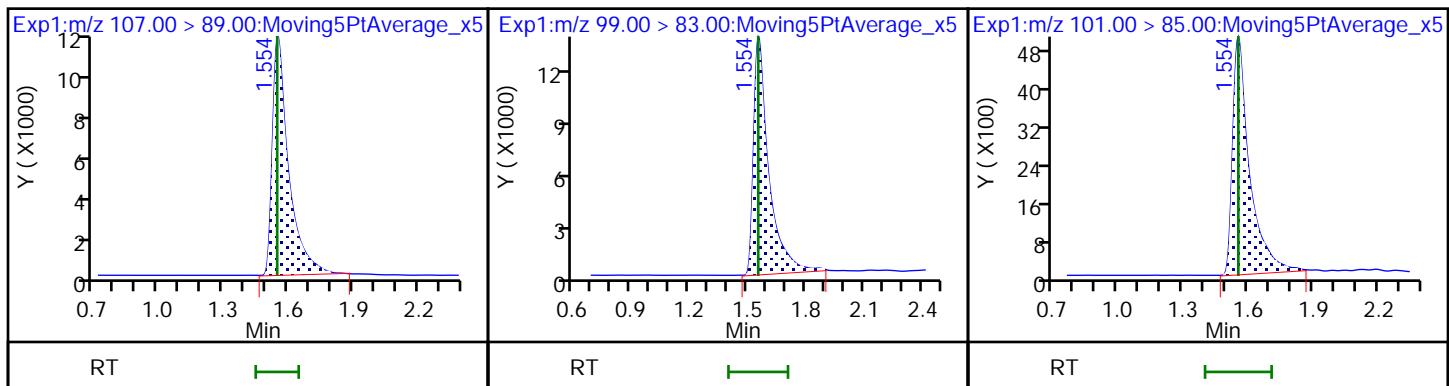
Limit Group:

LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-204706-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 410-599365/3-A

Matrix: Water Lab File ID: 25Jan28-105.d

Analysis Method: 6850 Date Collected: _____

Extraction Method: 6850 Prep Date Extracted: 01/27/2025 08:32

Sample wt/vol: 10.0 (mL) Date Analyzed: 01/28/2025 17:05

Con. Extract Vol.: 10.0 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Sielc Obelisc R ID: 2.1 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 599506 Units: ug/L

Preparation Batch No.: 599365 Instrument ID: 26719

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|------------|---------------|--------|---|-----|------|------|
| 14797-73-0 | Perchlorate | 0.967 | J | 1.0 | 0.40 | 0.20 |

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\25Jan28-105.d
 Lims ID: LCSD 410-599365/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 28-Jan-2025 17:05:07 ALS Bottle#: 53 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 410-599365/3-A
 Misc. Info.: Plate: 1 Rack: 1 410-0136579-005
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Method: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 29-Jan-2025 09:50:14 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICAL File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1653

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

| | | | | | | | | |
|----------------------|-------|-------|--------|-------|-------|--------|-----------------|------|
| 107.00 > 89.00 | 1.549 | 1.549 | 0.0 | | 57177 | 1.01 | | 1864 |
| 1 Perchlorate | | | | | | | | |
| 99.00 > 83.00 | 1.549 | 1.554 | -0.005 | 1.000 | 67890 | 0.9668 | Target=0.00 | 71.4 |
| 101.00 > 85.00 | 1.549 | 1.554 | -0.005 | 1.000 | 26709 | | 2.54(0.00-0.00) | 58.0 |

Report Date: 29-Jan-2025 09:50:16

Chrom Revision: 2.3 15-Jan-2025 12:44:04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250127-136579.b\\25Jan28-105.d

Injection Date: 28-Jan-2025 17:05:07 Instrument ID: 26719

Lims ID: LCSD 410-599365/3-A

Client ID:

Operator ID: ETUS023_USR_INS00047 ALS Bottle#: 53 Worklist Smp#: 5

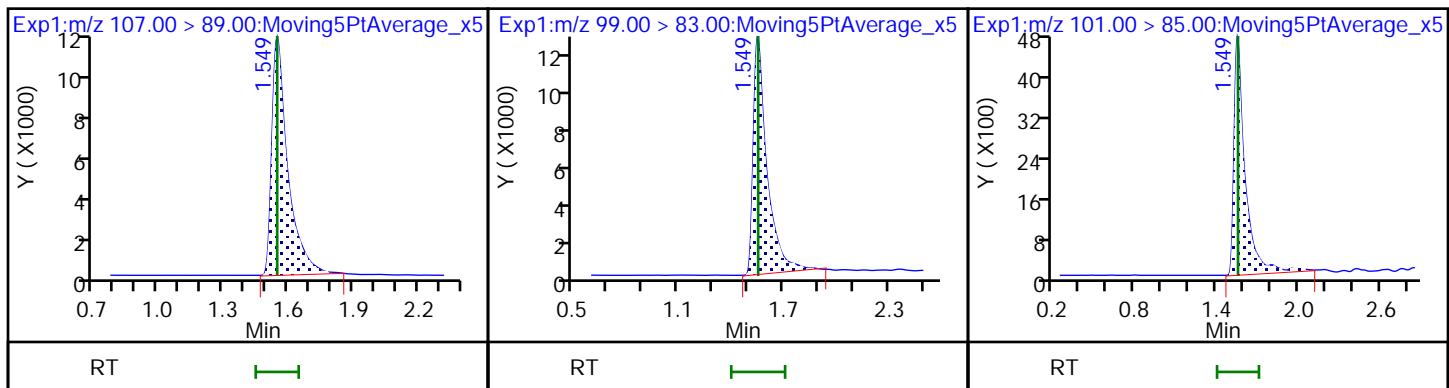
Injection Vol: 10.0 ul Dil. Factor: 1.0000

Method: perchlorate_26719 Limit Group: LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-204706-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: INF 410-599365/4-A

Matrix: Water Lab File ID: 25Jan28-106.d

Analysis Method: 6850 Date Collected: _____

Extraction Method: 6850 Prep Date Extracted: 01/27/2025 08:32

Sample wt/vol: 10.0 (mL) Date Analyzed: 01/28/2025 17:15

Con. Extract Vol.: 10.0 (mL) Dilution Factor: 1

Injection Volume: 10 (uL) GC Column: Sielc Obelisc R ID: 2.1 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____

Analysis Batch No.: 599506 Units: ug/L

Preparation Batch No.: 599365 Instrument ID: 26719

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|------------|---------------|--------|---|-----|------|------|
| 14797-73-0 | Perchlorate | 1.01 | | 1.0 | 0.46 | 0.23 |

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\25Jan28-106.d
 Lims ID: INF 410-599365/4-A
 Client ID:
 Sample Type: INF
 Inject. Date: 28-Jan-2025 17:15:33 ALS Bottle#: 54 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: INF 410-599365/4-A
 Misc. Info.: Plate: 1 Rack: 1 410-0136579-006
 Operator ID: ETUS023_USR_INS00047 Instrument ID: 26719
 Method: \\chromfs\Lancaster\ChromData\26719\20250127-136579.b\perchlorate_26719.m
 Limit Group: LC - 6850 DOD
 Last Update: 29-Jan-2025 09:50:14 Calib Date: 28-Jan-2025 15:51:56
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\26719\20250128-136709.b\25jan28-007.d
 Column 1 : Sielc Obelisc R (2.10 mm) Det: EXP1
 Process Host: CTX1653

| Signal | RT | EXP RT | DLT RT | REL RT | Response | Amount ug/l | Ratio(Limits) | S/N | Flags |
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|
|--------|----|--------|--------|--------|----------|-------------|---------------|-----|-------|

* 2 18-O Perchlorate

| | | | | | | | | |
|----------------------|-------|-------|-----|-------|-------|------|-----------------|------|
| 107.00 > 89.00 | 1.549 | 1.549 | 0.0 | | 36252 | 1.01 | | 963 |
| 1 Perchlorate | | | | | | | | |
| 99.00 > 83.00 | 1.554 | 1.554 | 0.0 | 1.003 | 44728 | 1.01 | Target=0.00 | 48.3 |
| 101.00 > 85.00 | 1.554 | 1.554 | 0.0 | 1.003 | 15995 | | 2.80(0.00-0.00) | 37.5 |

Data File: \\chromfs\\Lancaster\\ChromData\\26719\\20250127-136579.b\\25Jan28-106.d

Injection Date: 28-Jan-2025 17:15:33

Instrument ID: 26719

Lims ID: INF 410-599365/4-A

Client ID:

Operator ID: ETUS023_USR_INS00047

ALS Bottle#:

54

Worklist Smp#:

6

Injection Vol: 10.0 ul

Dil. Factor:

1.0000

Method: perchlorate_26719

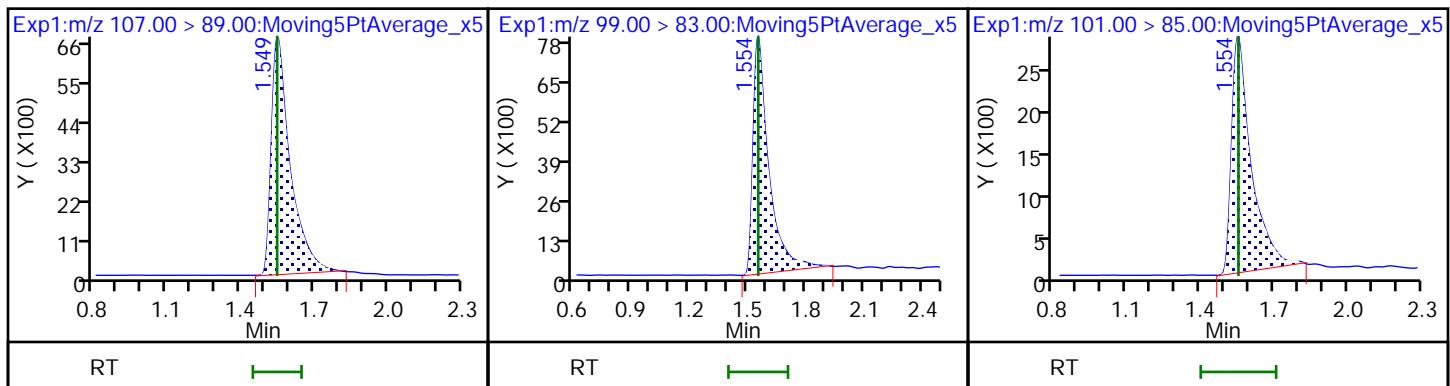
Limit Group:

LC - 6850 DOD

* 2 18-O Perchlorate

1 Perchlorate

1 Perchlorate



LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-204706-1

SDG No.:

Instrument ID: 26719

Start Date: 01/28/2025 16:33

Analysis Batch Number: 599506

End Date: 01/28/2025 20:23

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---------------------|----------------------------|------------------|-----------------|---------------|--------------------------|
| CCVIS 410-599506/2 | | 01/28/2025 16:33 | 1 | 25Jan28-102.d | Sielc Obelisc R 2.1 (mm) |
| MB 410-599365/1-A | | 01/28/2025 16:44 | 1 | 25Jan28-103.d | Sielc Obelisc R 2.1 (mm) |
| LCS 410-599365/2-A | | 01/28/2025 16:54 | 1 | 25Jan28-104.d | Sielc Obelisc R 2.1 (mm) |
| LCSD 410-599365/3-A | | 01/28/2025 17:05 | 1 | 25Jan28-105.d | Sielc Obelisc R 2.1 (mm) |
| INF 410-599365/4-A | | 01/28/2025 17:15 | 1 | 25Jan28-106.d | Sielc Obelisc R 2.1 (mm) |
| 410-204706-1 | TAPIALL-MW04S-011525-00-T2 | 01/28/2025 17:36 | 1 | 25Jan28-108.d | Sielc Obelisc R 2.1 (mm) |
| ZZZZZ (Client) | | 01/28/2025 17:46 | 1 | | Sielc Obelisc R 2.1 (mm) |
| ZZZZZ (Client) | | 01/28/2025 17:57 | 1 | | Sielc Obelisc R 2.1 (mm) |
| ZZZZZ (Client) | | 01/28/2025 18:49 | 1 | | Sielc Obelisc R 2.1 (mm) |
| ZZZZZ (Client) | | 01/28/2025 19:00 | 1 | | Sielc Obelisc R 2.1 (mm) |
| CCV 410-599506/19 | | 01/28/2025 19:31 | 1 | 25Jan28-119.d | Sielc Obelisc R 2.1 (mm) |
| ZZZZZ (Client) | | 01/28/2025 19:52 | 1 | | Sielc Obelisc R 2.1 (mm) |
| ZZZZZ (Client) | | 01/28/2025 20:02 | 1 | | Sielc Obelisc R 2.1 (mm) |
| CCV 410-599506/24 | | 01/28/2025 20:23 | 1 | | Sielc Obelisc R 2.1 (mm) |

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-204706-1

SDG No.:

Instrument ID: 26719

Start Date: 01/28/2025 14:59

Analysis Batch Number: 599999

End Date: 01/28/2025 16:12

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---------------------|------------------|------------------|-----------------|---------------|--------------------------|
| IC 410-599999/2 | | 01/28/2025 14:59 | 1 | 25jan28-002.d | Sielc Obelisc R 2.1 (mm) |
| IC 410-599999/3 | | 01/28/2025 15:10 | 1 | 25jan28-003.d | Sielc Obelisc R 2.1 (mm) |
| IC 410-599999/4 | | 01/28/2025 15:20 | 1 | 25jan28-004.d | Sielc Obelisc R 2.1 (mm) |
| ICISAV 410-599999/5 | | 01/28/2025 15:31 | 1 | 25jan28-005.d | Sielc Obelisc R 2.1 (mm) |
| IC 410-599999/6 | | 01/28/2025 15:41 | 1 | 25jan28-006.d | Sielc Obelisc R 2.1 (mm) |
| IC 410-599999/7 | | 01/28/2025 15:51 | 1 | 25jan28-007.d | Sielc Obelisc R 2.1 (mm) |
| ICVL 410-599999/8 | | 01/28/2025 16:02 | 1 | 25jan28-008.d | Sielc Obelisc R 2.1 (mm) |
| ICV 410-599999/9 | | 01/28/2025 16:12 | 1 | 25jan28-009.d | Sielc Obelisc R 2.1 (mm) |

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-204706-1

SDG No.: _____

Batch Number: 599365 Batch Start Date: 01/27/25 08:32 Batch Analyst: Wolbach, Rebecca

Batch Method: 6850 Prep Batch End Date: _____

| Lab Sample ID | Client Sample ID | Method Chain | Matrix | Basis | InitialAmount | FinalAmount | Headspace | GCS_percIS_00010 | GCS_PERICVINT_00016 | |
|-------------------|--------------------------------|--------------------|--------|-------|---------------|-------------|-----------|------------------|---------------------|--|
| MB 410-599365/1 | | 6850 Prep, 6850 | | | 10.0 mL | 10.0 mL | Y | 0.1 mL | | |
| LCS 410-599365/2 | | 6850 Prep, 6850 | | | 10.0 mL | 10.0 mL | Y | 0.1 mL | 0.01 mL | |
| LCSD 410-599365/3 | | 6850 Prep, 6850 | | | 10.0 mL | 10.0 mL | Y | 0.1 mL | 0.01 mL | |
| INF 410-599365/4 | | 6850 Prep, 6850 | | | 10.0 mL | 10.0 mL | Y | 0.1 mL | 0.01 mL | |
| 410-204706-B-1 | TAPIAL1-MW04S-0 11525-00-T2 | 6850 Prep, 6850 | Water | T | 10.0 mL | 10.0 mL | N | 0.1 mL | | |

Batch Notes

| | |
|------------------------------|-------------------|
| Pipette/Syringe/Dispenser ID | sp100-3, sp1000-6 |
| Reagent Water ID | 10121011212434A |
| Vial Lot Number | 430199 |
| Pipette Tip Lot ID | 2F0229M, 22081520 |

| Basis | Basis Description |
|-------|-------------------|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories

Job No.: 410-204706-1

SDG No.:

Batch Number: 599999

Batch Start Date: 01/28/25 14:59

Batch Analyst: Sneeringer, Angela D

Batch Method: 6850

Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Matrix | Basis | FinalAmount | gcs_icvperc2 00004 | gcs_icvperc5 00004 | gcs_perc2 00010 | gcs_perc3 00006 | gcs_perc4 00006 |
|------------------------|------------------|--------------|--------|-------|-------------|-----------------------|-----------------------|--------------------|--------------------|--------------------|
| IC 410-599999/2 | | 6850 | | | 1 mL | | | 1 mL | | |
| IC 410-599999/3 | | 6850 | | | 1 mL | | | | 1 mL | |
| IC 410-599999/4 | | 6850 | | | 1 mL | | | | | 1 mL |
| ICISAV 410-599999/5 | | 6850 | | | 1 mL | | | | | |
| IC 410-599999/6 | | 6850 | | | 1 mL | | | | | |
| IC 410-599999/7 | | 6850 | | | 1 mL | | | | | |
| ICVL 410-599999/8 | | 6850 | | | 1 mL | 1 mL | | | | |
| ICV 410-599999/9 | | 6850 | | | 1 mL | | 1 mL | | | |

| Lab Sample ID | Client Sample ID | Method Chain | Matrix | Basis | gcs_perc5 00006 | gcs_perc6 00006 | gcs_perc7 00006 | GCS_perc1S 00010 | | |
|------------------------|------------------|--------------|--------|-------|--------------------|--------------------|--------------------|---------------------|--|--|
| IC 410-599999/2 | | 6850 | | | | | | 0.01 mL | | |
| IC 410-599999/3 | | 6850 | | | | | | 0.01 mL | | |
| IC 410-599999/4 | | 6850 | | | | | | 0.01 mL | | |
| ICISAV 410-599999/5 | | 6850 | | | 1 mL | | | 0.01 mL | | |
| IC 410-599999/6 | | 6850 | | | | 1 mL | | 0.01 mL | | |
| IC 410-599999/7 | | 6850 | | | | | 1 mL | 0.01 mL | | |
| ICVL 410-599999/8 | | 6850 | | | | | | 0.01 mL | | |
| ICV 410-599999/9 | | 6850 | | | | | | 0.01 mL | | |

Batch Notes

| | |
|------------------------------|------------------------------------|
| Mobil Phase ID | MPA 10121001152534A MPB ACN 234740 |
| Pipette/Syringe/Dispenser ID | SP100-3 SP1000-7 |

| Basis | Basis Description |
|-------|-------------------|
| | |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6850

Page 1 of 1

Q1107

Shipping and Receiving Documents

Q1107

WESTON
STRUCTURES

Weston COC ID
Weston_20250115_1527

Chain of Custody Record/Lab Work Request

Page 1 of

| | | | |
|-------------------------|--|-----------------|--------------|
| Client: | Weston Solutions, Inc. | | |
| Project Manager: | David Sembrot | | |
| Street Address: | 1400 Weston Way | City: | West Chester |
| Phone: | 810-314-5456 | ST. ZIP: | PA, 18038 |
| e-mail: | david.sembrot@westonsolutions.com | | |
| Sampled By: | Cheyenne Harrington | | |

| Lab Use Only | | |
|---|---|---|
| Temperature of cooler when received (°C) | | |
| COC Tape was present and unbroken on outer package? | Y | N |
| Samples received in good condition? | Y | N |
| Labels indicate properly preserved? | Y | N |
| Received within holding times? | Y | N |
| Discrepancies between sample labels and COC record? | Y | N |

| | | | |
|----------------------|---|---------------------|--|
| Project Name: | Fort Meade RI | Project POC: | Nathan Fretz |
| PO Number | 0111169 | Phone: | 484-524-5665 |
| W.O. #: | | POC e-mail: | nathan.fretz@westonsolutions.com |
| Lab: | Chemtech-Eurofins Lancaster | Lab POC: | Jordan Hedvat |
| TAT (days): | 21 | Lab Phone: | 908-728-3144 |
| Lab Address: | 285 Sheffield Street Mountainside, NJ 07093 | | |

| | | | | | | | | |
|----------------------------|-------------------------|--|--|--|--|--|--|--|
| Analyses Requested: | Perchlorate by EPA 6850 | | | | | | | |
| Container Type: | Plastic | | | | | | | |

| Shipping Airbill Number: | 771460519011, 771460519022 | Temp 2.2 ^c | Cooler Number: | 2 of 2 |
|--------------------------|----------------------------|-----------------------|--------------------|--|
| Relinquished By | Date | Time | Received By | Date |
| 1.) <i>John B.</i> | 11/15/25 | 1700 | <i>[Signature]</i> | 1-16-25 |
| 2.) | | | | 0932 |
| 3.) | | | | |
| | | | | Additional Comments SAMPLES TO BE ANALYZED BY EUROFINS LANCASTER QSM 6.0 Compliant Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD |



410-204706 Chain of Custody

**284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
WWW.CHEMTECH.NET**

| Sub Lab INFORMATION | | CLIENT PROJECT INFORMATION | | CLIENT BILLING INFORMATION | |
|---|-------------------------------|--|-------------------------|---------------------------------|------------------------|
| COMPANY : EUROFINS Lancaster Laboratories | | ORDER ID : Q1107 | | BILL TO: CHEMTECH PO# : Q1107 | |
| ADDRESS : 2425 New Holland Pike | | PROJECT ID:Ft Meade Tipton Airfield Parcel RI - PO 0111169 | | ADDRESS : 284, Sheffield Street | |
| CITY:Lancaster | State :PA | ZIP :17601 | PROJECT MANAGER Yazmeen | CITY: Mountainside | State : NJ ZIP : 07092 |
| E-mail : | E-mail : YAZMEEN@CHEMTECH.NET | | ATTENTION :Yazmeen | | |
| PHONE :717-693-5814 | PHONE : (908) 789 8900 | | FAX: (908) 789 8922 | PHONE : (908) 789 8900 | FAX : (908) 789 8922 |

| | | |
|------------------|------------------|--|
| EDD : EnviroData | Report : Level 4 | Comment : *DOD (REPORT TO THE LOD AND INCLUDE PRESENTATION FOR THE LOQ AND DL) |
|------------------|------------------|--|

| ID | CLIENT SAMPLE IDENTIFICATION | SAMPLE MATRIX | ANALYSIS | Preservative | Method | SAMPLE COLLECTION | | # OF BOTTLES | TAT DAYS |
|----|------------------------------|---------------|-----------------|--------------------|--------|-------------------|----------|--------------|----------|
| | | | | | | DATE | TIME | | |
| 01 | TAPIAL1-MW04S-011525-00-T2 | Water | Wet Chem Group1 | 1:1 HNO3 to pH < 2 | Cal | 01/15/2025 | 12:20:00 | 2 | 10 |

(Perch forate by EPA 6850 method)

| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGES POSSESSION INCLUDING COURIER DELIVERY | | | | | |
|---|----------------------------|---------------------------------------|--|------------------------------------|--|
| RELINQUISHED BY SAMPLER: 1. <i>[Signature]</i> | DATETIME: 11:00 1-16-25 | RECEIVED BY: 1. <i>[Signature]</i> | Conditions of bottles or Coolers at receipt: | <input type="checkbox"/> Compliant | <input type="checkbox"/> Non Compliant |
| RELINQUISHED BY: 2. <i>[Signature]</i> | DATETIME: | RECEIVED BY: 2. <i>[Signature]</i> | | <input type="checkbox"/> Compliant | <input type="checkbox"/> Non Compliant |
| RELINQUISHED BY: 3. <i>[Signature]</i> | DATETIME: 1/17/25 09:50 | RECEIVED BY: 3. <i>[Signature]</i> | | <input type="checkbox"/> OVERNIGHT | Shipment Complete: |
| | | | | <input type="checkbox"/> OVERNIGHT | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Login Sample Receipt Checklist

Client: Chemtech Consulting Group Inc.

Job Number: 410-204706-1

Login Number: 204706

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Burkholder, Conrad

| 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. | True | |
| Cooler Temperature acceptable, where thermal pres is required (</=6C, not frozen). | True | |
| Cooler Temperature is recorded. | True | |
| 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. | 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 | |