The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*
*Automated Report*



## Technical Report for

## Providence Engineering

Valero Refining Meraux,LA

712-001

SGS Job Number: JE43469

Sampling Date: 10/12/26

Report to:

Providence Engineering
1201 Main Street
Baton Rouge, LA 70802
brandonkilpatrick@providenceeng.com; daylansenecal@providenceeng.com

ATTN: Brandon Kilpatrick

Total number of pages in report: **36**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Alexander Moscaritolo 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

**How did we do today?**
Your feedback helps us improve our service and takes less than a minute to complete.
START SURVEY



SGS is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.
Review standard terms at: http://www.sgs.com/en/terms-and-conditions

Please share your ideas about how we can serve you better at:
EHS.US.CustomerCare@sgs.com

Sections: 1 2 3 4

# Table of Contents



**Section 1: Sample Summary** ..... **3**
**Section 2: Sample Results** ..... **4**
**2.1:** JE43469-1: CAM 951 ..... 5
**Section 3: Misc. Forms** ..... **7**
**3.1:** Chain of Custody ..... 8
**3.2:** Summa Canister and Flow Controller Log ..... 10
**Section 4: MS Volatiles - QC Data Summaries** ..... **11**
**4.1:** Method Blank Summary ..... 12
**4.2:** Blank Spike/Blank Spike Duplicate Summary ..... 18
**4.3:** Duplicate Summary ..... 24
**4.4:** Summa Cleaning Certification ..... 27
**4.5:** Instrument Performance Checks (BFB) ..... 30
**4.6:** Surrogate Recovery Summaries ..... 36

SGS North America Inc.

# Sample Summary

Providence Engineering

**Job No:** JE43469

Valero Refining Meraux,LA
Project No: 712-001

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JE43469-1 | 10/12/26 | 07:20 | DJ | 10/15/26 | AIR | Ambient Air Comp. | CAM 951 |

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

## Sample Results

Report of Analysis

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | CAM 951 | | |
| **Lab Sample ID:** | JE43469-1 | **Date Sampled:** | 10/12/26 |
| **Matrix:** | AIR - Ambient Air Comp. Summa ID: A1579 | **Date Received:** | 10/15/26 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | Valero Refining Meraux,LA | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W73333.D | 1 | 10/17/26 04:46 | TCH | n/a | n/a | V2W3325 |
| Run #2 | | | | | | | |

| | Initial Volume |
|---|---|
| Run #1 | 400 ml |
| Run #2 | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 3.8 | 0.20 | 0.15 | ppbv | | 9.0 | 0.48 | 0.36 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | 0.19 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 0.17 | 0.20 | 0.047 | ppbv | J | 0.54 | 0.64 | 0.15 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.20 | 0.060 | ppbv | | ND | 1.3 | 0.40 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.20 | 0.19 | ppbv | | ND | 2.1 | 2.0 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | 0.27 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | 0.27 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | 0.67 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.20 | 0.11 | ppbv | | ND | 0.62 | 0.34 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | 0.34 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | 0.18 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | 0.097 | 0.20 | 0.037 | ppbv | J | 0.47 | 0.98 | 0.18 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | 0.76 | 0.20 | 0.090 | ppbv | | 1.6 | 0.41 | 0.19 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | 0.26 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | 0.37 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | 0.25 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | 0.16 | 0.20 | 0.045 | ppbv | J | 0.55 | 0.69 | 0.15 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | 0.23 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | 0.23 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.030 | ppbv | | ND | 1.5 | 0.23 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | 0.28 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | 0.29 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.20 | 0.048 | ppbv | | ND | 0.72 | 0.17 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.37 | 0.20 | 0.10 | ppbv | | 1.8 | 0.99 | 0.49 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.20 | 0.12 | ppbv | | ND | 1.7 | 1.0 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | 0.27 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.030 | ppbv | | ND | 0.79 | 0.12 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | 0.28 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.20 | 0.028 | ppbv | | ND | 1.2 | 0.17 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.20 | 0.069 | ppbv | | ND | 1.2 | 0.41 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.20 | 0.079 | ppbv | | ND | 1.2 | 0.47 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | 0.45 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | CAM 951 | | |
| **Lab Sample ID:** | JE43469-1 | **Date Sampled:** | 10/12/26 |
| **Matrix:** | AIR - Ambient Air Comp. Summa ID: A1579 | **Date Received:** | 10/15/26 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | Valero Refining Meraux,LA | | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | 2.1 | 0.50 | 0.39 | ppbv | | 4.0 | 0.94 | 0.73 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | 0.26 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | 0.36 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | 0.47 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | 0.24 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | 0.35 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 0.15 | 0.20 | 0.091 | ppbv | J | 0.61 | 0.82 | 0.37 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | 0.66 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 0.72 | 0.20 | 0.052 | ppbv | | 2.5 | 0.70 | 0.18 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | 0.61 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.29 | 0.20 | 0.14 | ppbv | | 0.71 | 0.49 | 0.34 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.64 | 0.20 | 0.13 | ppbv | | 2.2 | 0.69 | 0.45 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 0.37 | 0.20 | 0.052 | ppbv | | 1.1 | 0.59 | 0.15 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | 0.30 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | 0.29 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | 0.29 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 0.50 | 0.048 | ppbv | | ND | 0.86 | 0.082 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.20 | 0.053 | ppbv | | ND | 0.85 | 0.23 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.20 | 0.078 | ppbv | | ND | 1.1 | 0.43 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | 0.33 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | 0.21 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | 0.89 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | 0.43 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | 0.39 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | 0.37 | 0.20 | 0.040 | ppbv | | 1.7 | 0.93 | 0.19 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | 0.28 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.040 | 0.030 | ppbv | | ND | 0.27 | 0.20 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | 0.27 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 0.34 | 0.20 | 0.057 | ppbv | | 1.3 | 0.75 | 0.21 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | 0.10 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.20 | 0.20 | 0.057 | ppbv | | 1.1 | 1.1 | 0.32 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | 0.18 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | 0.39 | ug/m3 |
| | 106.2 | m,p-Xylene | 0.17 | 0.20 | 0.14 | ppbv | J | 0.74 | 0.87 | 0.61 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | 0.33 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 0.17 | 0.20 | 0.077 | ppbv | J | 0.74 | 0.87 | 0.33 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

## Misc. Forms

### Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

SGS Assignment: 4A-C3R

# AIR CHAIN OF CUSTODY

PAGE 1 OF 4

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200

FED-EX Tracking # 5301 9706 3108 | Bottle Order Control # EN-695886-21
SGS Quote # | SGS Job # TC434/19

**Client / Reporting Information**

Company Name: Providence Engineering
Address: 11124 Julia Aubin Dr
City: Baton Rouge | State: LA | Zip: 70809
Project Contact: Brandon.KilPatrick@Providenceeng.com | E-mail
Phone #: (225) 766-7400 | Fax #
Sampler(s) Name(s): Derek Jarreau

**Project Information**

Project Name: Valero Refining
Street
City: Meraux | State: LA
Project #: 712-001
Client Purchase Order #

**Weather Parameters**

Temperature (Fahrenheit) Start: Maximum: Stop: Minimum:
Atmoshpheric Pressure (Inches of Hg) Start: Maximum: Stop: Minimum:
Other weather comment:

**Requested Analysis**

TO-15 X

| Lab Sample # | Field ID / Point of Collection | Air Type: Indoor (I) Soil Vap (SV) Ambient (A) | Sampling Equipment Info: Canister Serial # | Canister Size 6L or 1L | Flow Controller Serial # | Start Sampling Information: Date | Time (24hr clock) | Canister Pressure ("Hg) | Interior Temp (F) | Sampler Init. | Stop Sampling Information: Date | Time (24hr clock) | Canister Pressure ("Hg) | Interior Temp (F) | Sampler Init. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CAM951 | A | A1579 | 6L | 687 | 2026 10/11 | 0720 | 30 | 74 | DJ | 2026 10/12 | 0720 | 5 | 74 | DJ |

**Turnaround Time (Business days)**

X Standard - 15 Days
10 Day
5 Day
3 Day
2 Day
1 Day
Other
Approved By:
Date:

**Data Deliverable Information**

All NJDEP TO-15 is Mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other:
DKQP reporting

**Comments / Remarks**

Sample inventory is verified upon receipt in the Laboratory

**Sample Custody must be documented below each time samples change possession, including courier delivery.**

| Relinquished by Laboratory: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|
| 1 W.J. | 9/23/26 | 1 FedEx | 2 FedEx | — | 2 Derek Jarreau |
| 3 Derek Jarreau | 10-12-26/1226 | 3 Fedex | 4 Fedex | 10.15.26 10:15 | 4 Brandy Lobrano |
| 5 | | 5 | Custody Seal # | | |

Form:SM088-03D (revised 2-12-18)

http://www.sgs.com/en/terms-and-conditions

**JE43469: Chain of Custody**
**Page 1 of 2**