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*Automated Report*

## Technical Report for

### Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Job Number: JC62614

Sampling Date: 03/14/18

#### Report to:

Providence Engineering

kevincalhoun@providenceeng.com

ATTN: Kevin Calhoun

Total number of pages in report: 10



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.

A handwritten signature in black ink that reads "Nancy Cole".

**Nancy Cole**  
Laboratory Director

**Client Service contact: Victoria Pushkova 732-329-0200**

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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

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## Sample Summary

**Providence Engineering**

**Job No: JC62614**

**Valero-CAMS, Baton Rouge, LA**  
**Project No: 712-001**

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC62614-1	03/14/18	06:30 KH	03/20/18	AIR	Ambient Air Comp.	CAMS 401

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Client Sample ID:	CAMS 401	Date Sampled:	03/14/18
Lab Sample ID:	JC62614-1	Date Received:	03/20/18
Matrix:	AIR - Ambient Air Comp. Summa ID: A316	Percent Solids:	n/a
Method:	TO-15		
Project:	Valero-CAMS, Baton Rouge, LA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W64325.D	1	03/30/18 23:44	TCH	n/a	n/a	V3W2452
Run #2							

Run #	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	2.5	0.20	0.062	ppbv		5.9	0.48	0.15	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.028	ppbv		ND	0.44	0.062	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.026	ppbv	J	0.45	0.64	0.083	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.029	ppbv		ND	1.3	0.19	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.018	ppbv		ND	2.1	0.19	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.033	ppbv		ND	0.78	0.13	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.016	ppbv		ND	0.87	0.070	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.021	ppbv		ND	1.0	0.11	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.033	ppbv		ND	0.62	0.10	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.017	ppbv		ND	0.92	0.078	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.036	ppbv		ND	0.53	0.095	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.031	ppbv		ND	0.98	0.15	ug/m3
74-87-3	50.49	Chloromethane	0.61	0.20	0.065	ppbv		1.3	0.41	0.13	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.037	ppbv		ND	0.63	0.12	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.036	ppbv		ND	1.0	0.19	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv		ND	1.3	0.13	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.035	ppbv		ND	0.69	0.12	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.033	ppbv		ND	0.81	0.13	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.022	ppbv		ND	1.5	0.17	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.026	ppbv		ND	0.81	0.11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.033	ppbv		ND	0.92	0.15	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.047	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.62	0.20	0.025	ppbv		3.1	0.99	0.12	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.025	ppbv		ND	1.7	0.21	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.026	ppbv		ND	0.79	0.10	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.034	ppbv		ND	0.79	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.023	ppbv		ND	0.91	0.10	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	0.17	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	0.17	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	0.17	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.029	ppbv		ND	0.91	0.13	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

# Report of Analysis

<b>Client Sample ID:</b> CAMS 401		
<b>Lab Sample ID:</b> JC62614-1		<b>Date Sampled:</b> 03/14/18
<b>Matrix:</b> AIR - Ambient Air Comp.	<b>Summa ID:</b> A316	<b>Date Received:</b> 03/20/18
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Valero-CAMS, Baton Rouge, LA		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	1.6	0.50	0.095	ppbv		3.0	0.94	0.18	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.023	ppbv		ND	0.87	0.10	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.065	ppbv		ND	0.72	0.23	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.024	ppbv		ND	1.5	0.18	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.024	ppbv		ND	1.4	0.17	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.046	ppbv		ND	0.82	0.19	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.024	ppbv		ND	2.1	0.26	ug/m3
110-54-3	86.17	Hexane	0.12	0.20	0.026	ppbv	J	0.42	0.70	0.092	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.041	ppbv		ND	0.82	0.17	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.36	0.20	0.090	ppbv		0.88	0.49	0.22	ug/m3
75-09-2	84.94	Methylene chloride	0.098	0.20	0.033	ppbv	J	0.34	0.69	0.11	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.25	0.20	0.043	ppbv		0.74	0.59	0.13	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.057	ppbv		ND	0.82	0.23	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	0.069	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.044	ppbv		ND	0.82	0.18	ug/m3
115-07-1	42	Propylene	ND	0.50	0.059	ppbv		ND	0.86	0.10	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.046	ppbv		ND	0.85	0.20	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.017	ppbv		ND	1.1	0.093	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.036	ppbv		ND	1.4	0.25	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	0.12	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.038	ppbv		ND	1.5	0.28	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.051	ppbv		ND	0.98	0.25	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.030	ppbv		ND	0.98	0.15	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.026	ppbv		ND	0.93	0.12	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.026	ppbv		ND	0.61	0.079	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.016	ppbv		ND	0.27	0.11	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	0.10	0.20	0.029	ppbv	J	0.38	0.75	0.11	ug/m3
79-01-6	131.4	Trichloroethylene	0.045	0.040	0.012	ppbv		0.24	0.21	0.064	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.30	0.20	0.015	ppbv		1.7	1.1	0.084	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.038	ppbv		ND	0.51	0.097	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.027	ppbv		ND	0.70	0.095	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.067	ppbv		ND	0.87	0.29	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.035	ppbv		ND	0.87	0.15	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.035	ppbv		ND	0.87	0.15	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		65-128%

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

## Misc. Forms

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### Custody Documents and Other Forms

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**Includes the following where applicable:**

- Chain of Custody
- Summa Canister and Flow Controller Log



ACCUTEST

### AIR CHAIN OF CUSTODY

SGS Accutest - Dayton  
2235 Route 130, Dayton, NJ 08810  
TEL: 732-329-0200 FAX: 732-329-3499/3480  
www.accutest.com

FED-EX Tracking # **4077 3097 6430**  
Lab Quote # **VP-03118-13**  
Lab Job # **JC62614**

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AIR

Client / Reporting Information				Project Information				Weather Parameters				Requested Analysis			
Company Name: <b>Providence Engr</b>				Project Name: <b>Vallero Refinings</b>				Temperature (Fahrenheit)				Requested Analysis			
Address: <b>1201 Main St</b>				Street:				Start: _____ Maximum: _____		Stop: _____ Minimum: _____					
City: <b>BRL</b> State: <b>LA</b> Zip: <b>70502</b>				City: <b>Merays LA</b> State: _____				Atmospheric Pressure (inches of Hg)							
Project Contact: <b>Paul Hillis @ providenceengr.com</b>				Project #: <b>712-001</b>				Start: _____ Maximum: _____		Stop: _____ Minimum: _____					
Phone #: <b>(225) 766-7400</b> Fax #: <b>7440</b>				Client Purchase Order #:				Other weather comment:							
Sampler(s) Name(s): <b>K Hudson</b>															
Lab Sample #	Field ID / Point of Collection	Air Type			Start Sampling Information					Stop Sampling Information					
		Indoor (I) Soil Vap (SV) Ambient (A)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.
1	Cams 401	A	A316	6L	537	3-13	730	30	75	KH	3-14	630	5	75	KH
Sample Custody must be documented below each time samples change possession, including courier delivery.															
Turnaround Time (Business days) Standard - 15 Days <input type="checkbox"/> 10 Day <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day <input type="checkbox"/> Other <input type="checkbox"/>				Approved By: <b>GA</b> <b>INITIAL ASSESSMENT</b> Date: _____ <b>LABEL VERIFICATION</b>				Data Deliverable Information All NJDEP TO-15 is mandatory Full T1 Comm A <input type="checkbox"/> Comm B <input type="checkbox"/> Reduced T2 <input type="checkbox"/> Full T1 <input type="checkbox"/> Other: _____ DKQP reporting <input type="checkbox"/>				Comments / Remarks <b>COC sent Fedex ship 3/16</b>			
Sample inventory is verified upon receipt in the Laboratory															
Relinquished by Laboratory: <b>Day Mourais</b>		Date Time: <b>3/15/18 13:40</b>		Received By: <b>FedEx</b>		Relinquished By: <b>FedEx</b>		Date Time: _____		Received By: <b>[Signature]</b>		Relinquished by: <b>[Signature]</b>		Date Time: <b>3/20/18 9:45</b>	
Relinquished by: <b>[Signature]</b>		Date Time: _____		Received By: <b>RT</b>		Relinquished By: <b>FA</b>		Date Time: _____		Received By: <b>[Signature]</b>		Relinquished by: <b>[Signature]</b>		Date Time: _____	
Relinquished by: _____		Date Time: _____		Received By: _____		Relinquished By: _____		Date Time: _____		Received By: _____		Relinquished by: _____		Date Time: _____	

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JC62614: Chain of Custody

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## SGS Sample Receipt Summary

Job Number: JC62614

Client: PROVIDENCE ENG

Project: PROVIDENCE - CAMS

Date / Time Received: 3/20/2018 9:45:00 AM

Delivery Method: \_\_\_\_\_

Airbill #s: \_\_\_\_\_

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

**Cooler Security**

Y or N

Y or N

- |                           |                                     |                          |                       |                                     |                          |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Cooler Temperature**

Y or N

- |                              |                          |                          |
|------------------------------|--------------------------|--------------------------|
| 1. Temp criteria achieved:   | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | N/A                      |                          |
| 3. Cooler media:             | N/A                      |                          |
| 4. No. Coolers:              | N/A                      |                          |

**Quality Control Preservation**

Y or N

N/A

- |                                 |                                     |                                     |                                     |
|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 2. Trip Blank listed on COC:    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 3. Samples preserved properly:  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. VOCs headspace free:         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Sample Integrity - Documentation**

Y or N

- |  |                                     |                          |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete:        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Sample Integrity - Condition**

Y or N

- |                                  |                                     |                          |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample:          | Intact                              |                          |

**Sample Integrity - Instructions**

Y or N N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear:           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Bottles received for unspecified tests | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 3. Sufficient volume recvd for analysis:  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Compositing instructions clear:        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear:          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Test Strip Lot #s:      pH 1-12: 216017      pH 12+: 208717      Other: (Specify) \_\_\_\_\_

Comments

SM089-03  
Rev. Date 12/7/17

JC62614: Chain of Custody

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# Summa Canister and Flow Controller Log

**Job Number:** JC62614  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 03/20/18

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SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A316	6	29.4	03/05/18	JT	CP9675	6W04989.D	JC62614-1	03/28/18	PC	4.5			1

**SGS Bottle Order(s):**  
 VP-03118-13

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 03/05/18      70      29.92