

## Technical Report for

### Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB15885

Sampling Date: 09/01/12

#### 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 Conference and/or state specific certification programs as applicable.



**Paul Ioannidis**  
Lab Director

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

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

**Providence Engineering**

**Job No: JB15885**

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB15885-1	09/01/12	13:00 KH	09/06/12	AIR	Ambient Air Grab	CAMS 063

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Client Sample ID:	CAMS 063	Date Sampled:	09/01/12
Lab Sample ID:	JB15885-1	Date Received:	09/06/12
Matrix:	AIR - Ambient Air Grab Summa ID: A462	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	3W30189.D	1	09/13/12	YXC	n/a	n/a	V3W1176
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	Units
67-64-1	58.08	Acetone	7.4	0.20	0.036	ppbv		18	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.63	0.20	0.046	ppbv		2.0	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.70	0.20	0.032	ppbv		2.2	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.76	0.20	0.037	ppbv		1.6	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.44	0.20	0.034	ppbv		1.5	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.20	0.038	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	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

Page 2 of 2

Client Sample ID:	CAMS 063	Date Sampled:	09/01/12
Lab Sample ID:	JB15885-1	Date Received:	09/06/12
Matrix:	AIR - Ambient Air Grab Summa ID: A462	Percent Solids:	n/a
Method:	TO-15		
Project:	Valero-CAMS, Baton Rouge, LA		

## VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	8.8	0.50	0.095	ppbv		17	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.44	0.20	0.031	ppbv		1.9	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.7	0.20	0.061	ppbv		6.1	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.12	0.20	0.024	ppbv	J	0.59	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	1.1	0.20	0.033	ppbv		4.5	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	2.7	0.20	0.044	ppbv		9.5	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.2	0.20	0.059	ppbv		2.9	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.96	0.20	0.027	ppbv		3.3	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.91	0.20	0.048	ppbv		2.7	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.18	0.20	0.036	ppbv	J	0.74	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.33	0.20	0.027	ppbv		1.4	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.45	0.20	0.024	ppbv		2.2	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.12	0.20	0.028	ppbv	J	0.59	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.71	0.20	0.028	ppbv		3.3	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.37	0.20	0.032	ppbv		1.1	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	2.6	0.20	0.040	ppbv		9.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.21	0.20	0.042	ppbv		1.2	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	1.4	0.20	0.031	ppbv		6.1	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.57	0.20	0.031	ppbv		2.5	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.9	0.20	0.031	ppbv		8.3	0.87	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

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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

**CHAIN OF CUSTODY**  
Air Sampling Field Data Sheet

2235 US Highway 130, Dayton, NJ 08810  
Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking # 8007-6195-6445  
Lab Quote # \_\_\_\_\_  
Bottle Order Control # \_\_\_\_\_  
Lab Job # JB15885

Company Name: <u>Providence Engr</u>		Project Name: <u>Valero Refining</u>		Weather Parameters		Requested Analysis														
Address: <u>1201 Main St</u>		Street: _____		Temperature (Fahrenheit)		Start: _____ Maximum: _____ Stop: _____ Minimum: _____ Atmospheric Pressure (inches of Hg) Start: _____ Maximum: _____ Stop: _____ Minimum: _____ Other weather comment: _____														
City: <u>BR</u> State: <u>LA</u> Zip: <u>70802</u>		City: <u>Meraux</u> State: <u>LA</u>																		
Project Contact: <u>Paul Hollis</u> E-mail: <u>paul.hollis@providenceeng.com</u>		Project #: <u>712-001</u>																		
Phone #: <u>(225) 766-7400</u> Fax #: <u>-7440</u>		Client Purchase Order #: _____				51-01 10-15														
Sampler(s) Name(s): <u>Karen Hudson</u>																				
Lab Sample #	Field ID / Point of Collection	Air Type				Sampling Equipment Info					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 (24 hr clock)	Canister Pressure (Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24 hr clock)	Canister Pressure (Hg)	Interior Temp (F)	Sampler Init.		
<u>1</u>	<u>CAMS 063</u>	<u>A</u>			<u>A462</u>	<u>6L</u>	<u>-</u>	<u>8-31</u>	<u>1300</u>	<u>0.55</u>	<u>75</u>	<u>KH</u>	<u>9-1</u>	<u>1300</u>	<u>12.53</u>	<u>75</u>	<u>KH</u>	<input checked="" type="checkbox"/>		
Turnaround Time (Business Days)		Approved By: _____		Date: _____		Data Deliverable Information		Comments / Remarks												
Standard - 15 Days 10 Day 5 Day 3 Day 2 Day 1 Day Other						All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other:		<u>Sum A</u>  <b>Received at Baton Rouge Service Center</b>												
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:		Relinquished by:		Date Time:		Received by:		Custody Seal #		
1				<u>[Signature]</u>		2		<u>[Signature]</u>		<u>[Signature]</u>		3		<u>[Signature]</u>		4				
Relinquished by:		Date Time: <u>9-20-15</u>		Received by:		Relinquished by:		Date Time:		Received by:		Relinquished by:		Date Time:		Received by:				
3				<u>[Signature]</u>		4				<u>[Signature]</u>		5				<u>[Signature]</u>				

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**Accutest Job Number:** JB15885      **Client:** \_\_\_\_\_      **Project:** \_\_\_\_\_  
**Date / Time Received:** 9/10/2012      **Delivery Method:** \_\_\_\_\_      **Airbill #'s:** \_\_\_\_\_

**Cooler Temps (Initial/Adjusted):**

<u>Cooler Security</u>	<u>Y or N</u>	<u>Y or N</u>
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. SmpI Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification:	_____
3. Cooler media:	_____
4. No. Coolers:	0

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
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"/>	

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
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 _____		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
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"/>

Comments

# Summa Canister and Flow Controller Log

**Job Number:** JB15885  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 09/06/12

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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
A462	6	29.4	07/26/12	HT	CP5537	3W29146.D	JB15885-1	09/11/12	HT	4.5			1

**Accutest Bottle Order(s):**  
 KM-7/26/2012-7

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 07/26/12        70                                      29.92