

**Technical Report for**

**Providence Engineering**

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB12821

Sampling Date: 07/29/12

**Report to:**

Providence Engineering

kevincalhoun@providenceeng.com

ATTN: Kevin Calhoun

Total number of pages in report: **13**



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: Kristyn Morrison 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.



August 23, 2012

Mr. Paul Hollis  
Providence Engineering  
1201 Main Street  
Baton Rouge, LA 70802

**Re: Accutest Job #JB12821**

Dear Mr. Hollis,

The final report for Accutest job number JB12821 has been edited to reflect corrections to the final report. These edits have been incorporated into the revised report attached.

Specifically, the samples collection date has been revised to July 29<sup>th</sup>, 2012 per Ms. Laura Picous request dated 8/21/2012. The attached revised report incorporates these revisions.

Please contact me if I can be of further assistance in this matter.

Sincerely,

A handwritten signature in black ink that reads "Kristyn Morrison".

Kristyn Morrison  
Project Manager

*Accutest Laboratories*

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## Sample Summary

**Providence Engineering**

**Job No: JB12821**

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB12821-1	07/29/12	13:00 KH	08/03/12	AIR	Ambient Air Grab	CAMS 058

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Page 1 of 2

Client Sample ID:	CAMS 058	Date Sampled:	07/29/12
Lab Sample ID:	JB12821-1	Date Received:	08/03/12
Matrix:	AIR - Ambient Air Grab Summa ID: A649	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	3W29503.D	1	08/03/12	YXC	n/a	n/a	V3W1151
Run #2							

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

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	6.2	0.20	0.036	ppbv		15	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	0.52	0.20	0.046	ppbv		1.7	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	0.36	0.20	0.032	ppbv		1.1	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	0.74	0.20	0.037	ppbv		1.5	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	0.54	0.20	0.034	ppbv		1.9	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	0.45	0.20	0.038	ppbv		2.2	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

Client Sample ID:	CAMS 058	Date Sampled:	07/29/12
Lab Sample ID:	JB12821-1	Date Received:	08/03/12
Matrix:	AIR - Ambient Air Grab Summa ID: A649	Percent Solids:	n/a
Method:	TO-15		
Project:	Valero-CAMS, Baton Rouge, LA		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	4.5	0.50	0.095	ppbv		8.5	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.38	0.20	0.031	ppbv		1.7	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.9	0.20	0.061	ppbv		6.8	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.15	0.20	0.024	ppbv	J	0.74	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	0.64	0.20	0.033	ppbv		2.6	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	2.1	0.20	0.044	ppbv		7.4	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	0.80	0.20	0.059	ppbv		2.0	0.49	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.69	0.20	0.048	ppbv		2.0	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.25	0.20	0.036	ppbv		1.0	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	0.24	0.20	0.027	ppbv		1.0	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	0.52	0.20	0.024	ppbv		2.6	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.15	0.20	0.028	ppbv	J	0.74	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.2	0.20	0.028	ppbv		5.6	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.20	0.20	0.032	ppbv		0.61	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	3.1	0.20	0.040	ppbv		12	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	0.23	0.20	0.042	ppbv		1.3	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	1.3	0.20	0.031	ppbv		5.6	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.47	0.20	0.031	ppbv		2.0	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.8	0.20	0.031	ppbv		7.8	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		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 # 8007-6196-4903  
Bottle Order Control 185-5/30/2012-2  
Lab Quote # Lab Job # JB 12821

Company Name <b>Providence Eng.</b>				Project Name <b>Valero Refining</b>				Weather Parameters					Requested Analysis						
Address <b>1201 Main St</b>				Street				Temperature (Fahrenheit)											
City <b>Bn</b> State <b>LA</b> Zip <b>70802</b>				City <b>Meroux</b> State <b>LA</b>				Start: Maximum:											
Project Contact <b>paul.hollis@providenceeng.com</b>				Project # <b>712-001</b>				Atmospheric Pressure (inches of Hg)					TO-15						
Phone # <b>225-766-7400</b> Fax # <b>-7400</b>				Client Purchase Order #				Start: Maximum:											
Sampler(s) Name(s) <b>Karen Hudson</b>								Other weather comment:											
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 (H <sub>g</sub> )	Interior Temp (F)	Sampler Init.	Date	Time (24 hr clock)	Canister Pressure (H <sub>g</sub> )	Interior Temp (F)	Sampler Init.				
-1	CAIMS 058	A	A649	6L	-	7-28	1300	0.17	75	KAH	7-28	1300	11.98	75	KAH				
A large diagonal line is drawn across the sampling table.																			
Turnaround Time (Business Days)				Data Deliverable Information				Comments/Remarks											
Standard - 15 Days <input checked="" type="checkbox"/> 10 Day <input 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: _____ Date: _____				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: <input type="checkbox"/>				<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;">SUMMA</div>							
Sample Custody must be documented below each time samples change possession, including courier delivery.																			
Relinquished by: <b>[Signature]</b>		Date/Time: <b>5/30/12</b>		Received by: <b>FedEx</b>		Relinquished by: <b>FedEx</b>		Date/Time: <b>8-3-12</b>		Received by: <b>[Signature]</b>		Relinquished by: <b>FedEx</b>		Date/Time: <b>8-3-12</b>		Received by: <b>[Signature]</b>			
Relinquished by: <b>[Signature]</b>		Date/Time: <b>8/1/12 034</b>		Received by: <b>FED EX</b>		Relinquished by: <b>FED EX</b>		Date/Time: <b>8-3-12</b>		Received by: <b>[Signature]</b>		Relinquished by: <b>FED EX</b>		Date/Time: <b>8-3-12</b>		Received by: <b>[Signature]</b>			
Relinquished by: <b>[Signature]</b>		Date/Time: _____		Received by: _____		Relinquished by: _____		Date/Time: _____		Received by: _____		Relinquished by: _____		Date/Time: _____		Received by: _____			

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## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB12821      **Client:** \_\_\_\_\_      **Project:** \_\_\_\_\_  
**Date / Time Received:** 8/3/2012      **Delivery Method:** \_\_\_\_\_      **Airbill #'s:** \_\_\_\_\_

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

<b>Cooler Security</b>		<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"/>

<b>Cooler Temperature</b>		<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	

<b>Quality Control Preservation</b>	<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"/>	

<b>Sample Integrity - Documentation</b>		<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"/>		

<b>Sample Integrity - Condition</b>		<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 _____			

<b>Sample Integrity - Instructions</b>	<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

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# 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 #	Bottle Order Control #
Lab Quote #	Lab Job # JB12821 REVISED 3/1

PAGE 1 OF 1

Client / Reporting Information		Project Name		Weather Parameters		Requested Analysis	
Company Name: Providence Engr		Project Name: Valero Refining		Temperature (Fahrenheit)		Requested Analysis	
Address: 1201 Main St		Street:		Start: Maximum:		Requested Analysis	
City: BR State: LA Zip: 70802		City: Meroux State: LA		Stop: Minimum:		Requested Analysis	
Project Contact: Paul Hollis @ providence eng. com		Project #: 712-001		Atmospheric Pressure (inches of Hg)		Requested Analysis	
Phone #: 225.766.7400 Fax #: -7400		Client Purchase Order #		Start: Maximum:		Requested Analysis	
Sampler(s) Name(s): Karen Hudson				Stop: Minimum:		Requested Analysis	
				Other weather comment:		Requested Analysis	

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 SL or IL	Flow Controller Serial #	Date	Time (24 hr Clock)	Canister Pressure (Psi)	Interior Temp (F)	Sampler Init.	Date	Time (24 hr Clock)	Canister Pressure (Psi)	Interior Temp (F)
	CAMS 05B	A	A449	6L	-	7-21	1300	0.17	75	KH	7-21	1300	11.98	75	KH

Turnaround Time (Business Days)		Data Deliverable Information		Comments / Remarks	
Standard - 15 Days	<input checked="" type="checkbox"/>	Approved By: _____ Date: _____		All NJDEP TO-15 is mandatory Full T1	
10 Day	<input type="checkbox"/>			Comm A: _____	
5 Day	<input type="checkbox"/>			Comm B: _____	
3 Day	<input type="checkbox"/>			Reduced T2: _____	
2 Day	<input type="checkbox"/>			Full T1: _____	
1 Day	<input type="checkbox"/>			Other: _____	
Other	<input type="checkbox"/>				

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				08/12	EMM
Relinquished by: EMM	Date Time: 08/12	Received by: FedEx	Relinquished by: FedEx	Date Time: 08/12	Received by: EMM
3					
Relinquished by:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
5				8-03-12	

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**Job Change Order: JB12821\_8/21/2012**

**Requested Date:** 8/21/2012  
**Account Name:** Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**CSR:** KM

**Received Date:** 8/3/2012  
**Due Date:** 8/17/2012  
**Deliverable:** COMMB  
**TAT (Days):** 14

**Sample #:** JB12821-1  
**Change:** Please correct sample collection date range to 7/28/12-7/29/12, per revised COC received.

CAMS 058

**Above Changes Per:** Laura Picou  
**Date:** 8/21/2012

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

# Summa Canister and Flow Controller Log

**Job Number:** JB12821  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 08/03/12

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SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	Vac L	Date " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A649	6	29.4	06/21/12	HT	CP5488	3W28541.D	JB12821-1	08/03/12	RC	6			1

**Accutest Bottle Order(s):**  
 KM-6/21/2012-3

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 06/21/12        70                                      29.92