

**Technical Report for**

**Providence Engineering**

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB73171

Sampling Date: 07/21/14

**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.



**Nancy Cole**  
Laboratory 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, DoD ELAP (L-A-B L2248)

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## Sample Summary

**Providence Engineering**

**Job No: JB73171**

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB73171-1	07/21/14	13:00	ICH	08/04/14	AIR Ambient Air Grab	CAMS 178

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Client Sample ID:	CAMS 178	Date Sampled:	07/21/14
Lab Sample ID:	JB73171-1	Date Received:	08/04/14
Matrix:	AIR - Ambient Air Grab Summa ID: A654	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	5W6405.D	1	08/09/14	ML	n/a	n/a	V5W244
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	12.8	0.20	0.11	ppbv		30.4	0.48	0.26	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.034	ppbv		ND	0.44	0.075	ug/m3
71-43-2	78.11	Benzene	0.90	0.20	0.025	ppbv		2.9	0.64	0.080	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	0.035	ppbv		ND	2.1	0.36	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	0.035	ppbv		ND	0.87	0.15	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.047	ppbv		ND	1.0	0.24	ug/m3
75-15-0	76.14	Carbon disulfide	0.35	0.20	0.031	ppbv		1.1	0.62	0.097	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.034	ppbv		ND	0.92	0.16	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.042	ppbv		ND	0.53	0.11	ug/m3
67-66-3	119.4	Chloroform	0.13	0.20	0.024	ppbv	J	0.63	0.98	0.12	ug/m3
74-87-3	50.49	Chloromethane	1.5	0.20	0.079	ppbv		3.1	0.41	0.16	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	0.032	ppbv		ND	1.0	0.17	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.025	ppbv		ND	1.3	0.16	ug/m3
110-82-7	84.16	Cyclohexane	1.0	0.20	0.027	ppbv		3.4	0.69	0.093	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.052	ppbv		ND	0.79	0.21	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	0.21	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.15	0.20	0.023	ppbv	J	0.61	0.81	0.093	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	0.13	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	0.43	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.20	0.030	ppbv		2.5	0.99	0.15	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.038	ppbv		ND	1.7	0.32	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.070	ppbv		ND	0.79	0.28	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.025	ppbv		ND	0.91	0.11	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.033	ppbv		ND	1.2	0.20	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	0.17	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	0.22	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.025	ppbv		ND	0.91	0.11	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 178	Date Sampled:	07/21/14
Lab Sample ID:	JB73171-1	Date Received:	08/04/14
Matrix:	AIR - Ambient Air Grab Summa ID: A654	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	MDL	Units
64-17-5	46.07	Ethanol	495	0.50	0.17	ppbv	E	933	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	0.87	0.20	0.035	ppbv		3.8	0.87	0.15	ug/m3
141-78-6	88	Ethyl Acetate	7.6	0.20	0.061	ppbv		27	0.72	0.22	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.39	0.20	0.032	ppbv		1.9	0.98	0.16	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.040	ppbv		ND	1.5	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	0.22	ug/m3
142-82-5	100.2	Heptane	0.21	0.20	0.021	ppbv		0.86	0.82	0.086	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.051	ppbv		ND	2.1	0.54	ug/m3
110-54-3	86.17	Hexane	1.7	0.20	0.042	ppbv		6.0	0.70	0.15	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.064	ppbv		ND	0.82	0.26	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.0	0.20	0.066	ppbv		4.9	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.51	0.20	0.13	ppbv		1.8	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.5	0.20	0.040	ppbv		4.4	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.21	0.20	0.042	ppbv		0.86	0.82	0.17	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.66	0.20	0.041	ppbv		2.4	0.72	0.15	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.036	ppbv		ND	0.82	0.15	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	0.47	0.20	0.033	ppbv		2.0	0.85	0.14	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.040	ppbv		ND	1.4	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.061	ppbv		ND	1.5	0.45	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.3	0.20	0.029	ppbv		6.4	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.35	0.20	0.029	ppbv		1.7	0.98	0.14	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.16	0.20	0.025	ppbv	J	0.75	0.93	0.12	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.1	0.20	0.044	ppbv		3.3	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.21	0.040	0.037	ppbv		1.4	0.27	0.25	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.049	ppbv		ND	0.59	0.14	ug/m3
108-88-3	92.14	Toluene	4.8	0.20	0.030	ppbv		18	0.75	0.11	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.030	ppbv		ND	0.21	0.16	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.20	0.029	ppbv		1.5	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.031	ppbv		ND	0.51	0.079	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.095	ppbv		ND	0.70	0.33	ug/m3
	106.2	m,p-Xylene	2.1	0.20	0.069	ppbv		9.1	0.87	0.30	ug/m3
95-47-6	106.2	o-Xylene	0.97	0.20	0.034	ppbv		4.2	0.87	0.15	ug/m3
1330-20-7	106.2	Xylenes (total)	3.0	0.20	0.034	ppbv		13	0.87	0.15	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%		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



# CHAIN OF CUSTODY

## Air Sampling Field Data Sheet

FED-EX Tracking # 776735743240  
Lab Quote #

Order Control # VP-10/28/2013-5  
Lab Job # JB 73171

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Client / Reporting Information				Weather Parameters					Requested Analysis							
Company Name: Providence Engr		Project Name: Valero Refining		Temperature (Fahrenheit)												
Address: 1201 Main St		Street		Start:	Maximum:											
City: Bkr State: LA Zip: 70802		City: Meroux State: LA		Stop:	Minimum:											
Project Contact: Paul Hollis e:providenceengr.com		Project # HZ-001		Atmospheric Pressure (inches of Hg)												
Phone # 225 766 7400 Fax # -7440		Client Purchase Order #		Start:	Maximum:											
Sampler(s) Name(s): Karen Hudson				Stop:	Minimum:											
				Other weather comment:					Standard TO-15 Reporting List							
		Air Type			Start Sampling Information					Stop Sampling Information						
Lab Sample #	Field ID / Point of Collection	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 178	A	A654	6L	-	7-20	1300	1.06		75	KH	7-21	1300	12.53	75	KH
/																
/																
/																
/																
/																
/																
Turnaround Time (Business days)				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:					Received at Baton Rouge Service Center							
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	Relinquished By	Date/Time	Received By	Relinquished By	Date/Time	Received By	Relinquished By	
1	10/28/12 14:20	FedEx	FedEx													
3	7/31/14 12:52															
5	8/4/14 9:40															

4AS

MS

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**JB73171: Chain of Custody**

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# Summa Canister and Flow Controller Log

**Job Number:** JB73171  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 08/04/14

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3

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
A654	6	29.4	06/12/14	AK	CP7063	5W5122.D	JB73171-1	08/04/14	RC	5			1

**Accutest Bottle Order(s):**  
 VP-6/12/2014-3

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 06/12/14      70      29.92