New Jersey ACCUTEST LABORATORIES

11/12/12

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB19533

Sampling Date: 10/13/12

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.

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

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Sample Summary

Providence Engineering

Job No: JB19533

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB19533-1	10/13/12	13:00	KH	10/18/12	AIR	Ambient Air Grab	CAMS 070

Sample Results

Report of Analysis

Accutest LabLink@697475 15:50 12-Nov-2012

Report of Analysis

Client Sample ID: CAMS 070
Lab Sample ID: JB19533-1
Matrix: AIR - Ambient Air Grab Summa ID: A863
Method: TO-15
Project: Valero-CAMS, Baton Rouge, LA

Date Sampled: 10/13/12
Date Received: 10/18/12
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W38893.D	1	10/18/12	YMH	n/a	n/a	VW1572
Run #2							

	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	ND	0.20	0.069	ppbv		ND	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.54	0.20	0.029	ppbv		1.7	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.30	0.20	0.024	ppbv		0.93	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.64	0.20	0.055	ppbv		1.3	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	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	0.020	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.55	0.20	0.050	ppbv		1.9	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.47	0.20	0.024	ppbv		2.3	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	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 070
Lab Sample ID: JB19533-1
Matrix: AIR - Ambient Air Grab Summa ID: A863
Method: TO-15
Project: Valero-CAMS, Baton Rouge, LA

Date Sampled: 10/13/12
Date Received: 10/18/12
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	6.8	0.50	0.17	ppbv		13	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.19	0.20	0.029	ppbv	J	0.83	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.0	0.20	0.13	ppbv		3.6	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	0.60	0.20	0.028	ppbv		2.5	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	2.3	0.20	0.050	ppbv		8.1	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.051	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.5	0.20	0.065	ppbv		3.7	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.36	0.20	0.055	ppbv		1.3	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.91	0.20	0.042	ppbv		2.7	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.21	0.20	0.084	ppbv		0.86	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.034	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.14	0.20	0.025	ppbv	J	0.60	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.034	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.095	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.22	0.20	0.029	ppbv		1.1	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.044	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.1	0.20	0.031	ppbv		5.1	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.45	0.20	0.049	ppbv		1.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.074	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	2.0	0.20	0.032	ppbv		7.5	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.25	0.20	0.028	ppbv		1.4	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.61	0.20	0.058	ppbv		2.6	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.23	0.20	0.037	ppbv		1.0	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.84	0.20	0.037	ppbv		3.6	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

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

Air

ACCUTEST LABORATORIES

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FED-EX Tracking # 8505 2654 5016 | Bottle Order Control # | PAGE 1 OF 1

Lab Quote # | Lab Job # JB19533

Client / Reporting Information

Company Name: Providence Engr
Address: 1201 Main St
City: BR State: LA Zip: 70802
Project Contact: paulhollis@providenceeng.com E-mail:
Phone #: 225 766 7400 Fax #: 7440
Sampler(s) Name(s): Karen Hudson

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

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.	TO-15
-1	CAMS 070	A	A863	6L	-	10-12	1300	0.18	75	KH	10-13	1300	11.91	75	KH	✓

Turnaround Time (Business days)

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:

Comments / Remarks

Received at Baton Rouge Service Center

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

Relinquished by Laboratory: 1	Date Time:	Received By: 1	Relinquished By: 2	Date Time: 10/16/12 1534	Received By: 2
Relinquished by: 3	Date Time: 10/16/12	Received By: 3 FedEx	Relinquished By 4 FedEx	Date Time: 10/18/12 1030	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #		

TH

JB19533: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB19533 **Client:** **Project:**

Date / Time Received: 10/18/2012 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Summa Canister and Flow Controller Log

Job Number: JB19533
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 10/18/12

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
A863	6	29.4	09/24/12	HT	CP5649	W38203.D	JB19533-1	10/18/12	YMH	6			1

Accutest Bottle Order(s):
VP-9/24/2012-10

Prep Date	Room Temp(F)	Bar Pres "Hg
09/24/12	70	29.92