

**Technical Report for**

**Providence Engineering**

**Murphy-CAMS, LA**

**Accutest Job Number: JA86990**

**Sampling Date: 09/21/11**

**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.



**David N. Speis**  
**VP, Laboratory 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, PA, RI, SC, TN, VA, WV

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

# Table of Contents

-1-

**Section 1: Sample Summary** ..... 3

**Section 2: Sample Results** ..... 4

**2.1: JA86990-1: CAMS 006** ..... 5

**Section 3: Misc. Forms** ..... 7

**3.1: Chain of Custody** ..... 8

**3.2: Summa Canister and Flow Controller Log** ..... 10



## Sample Summary

Providence Engineering

Job No: JA86990

Murphy-CAMS, LA

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JA86990-1	09/21/11	13:30 PH	09/23/11	AIR	Ambient Air Grab	CAMS 006

**Sample Results**

---

**Report of Analysis**

---

## Report of Analysis

Page 1 of 2

Client Sample ID:	CAMS 006	Date Sampled:	09/21/11
Lab Sample ID:	JA86990-1	Date Received:	09/23/11
Matrix:	AIR - Ambient Air Grab	Summa ID:	A214
Method:	TO-15	Percent Solids:	n/a
Project:	Murphy-CAMS, LA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W24177.D	1	09/27/11	YXC	n/a	n/a	V3W957
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	11.6	0.20	0.036	ppbv		27.6	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	0.69	0.20	0.046	ppbv		2.2	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	0.55	0.20	0.032	ppbv		1.7	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	0.66	0.20	0.037	ppbv		1.4	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	0.20	0.20	0.034	ppbv		0.69	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	0.51	0.20	0.038	ppbv		2.5	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 006	Date Sampled:	09/21/11
Lab Sample ID:	JA86990-1	Date Received:	09/23/11
Matrix:	AIR - Ambient Air Grab	Summa ID:	A214
Method:	TO-15	Percent Solids:	n/a
Project:	Murphy-CAMS, LA		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	18.3	0.50	0.095	ppbv		34.5	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.26	0.20	0.031	ppbv		1.1	0.87	ug/m3
141-78-6	88	Ethyl Acetate	26.5	0.20	0.061	ppbv		95.4	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	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	0.21	0.20	0.033	ppbv		0.86	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	0.55	0.20	0.044	ppbv		1.9	0.70	ug/m3
591-78-6	100	2-Hexanone	0.11	0.20	0.043	ppbv	J	0.45	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.3	0.20	0.059	ppbv		8.1	0.49	ug/m3
75-09-2	84.94	Methylene chloride	1.1	0.20	0.027	ppbv		3.8	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.0	0.20	0.048	ppbv		2.9	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.27	0.20	0.036	ppbv		1.1	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	0.45	0.20	0.027	ppbv		1.9	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	0.29	0.20	0.024	ppbv		1.4	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.22	0.20	0.028	ppbv		1.0	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.29	0.20	0.032	ppbv		0.88	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.085	0.040	0.028	ppbv		0.58	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.14	0.20	0.047	ppbv	J	0.41	0.59	ug/m3
108-88-3	92.14	Toluene	5.7	0.20	0.040	ppbv		21	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	0.51	0.20	0.042	ppbv		2.9	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	1.1	0.20	0.057	ppbv		3.9	0.70	ug/m3
	106.2	m,p-Xylene	0.76	0.20	0.031	ppbv		3.3	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.32	0.20	0.031	ppbv		1.4	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.1	0.20	0.031	ppbv		4.8	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		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

Company Name: <b>Providence</b>		Project Name:		Temperature (Fahrenheit)		Requested Analysis
Address: <b>1201 Main Street</b>		Street:		Start:	Maximum:	
City: <b>Baton Rouge</b> State: <b>LA</b> Zip: <b>70802</b>		City:		Stop:	Minimum:	
Project Contact: <b>Paul paulhollis@providenceeng.com</b> E-mail:		Project #:		Atmospheric Pressure (inches of Hg)		
Phone # <b>225 766 7400</b> Fax #:		Client Purchase Order #:		Start:	Maximum:	70-15
Sampler(s) Name(s): <b>PAUL HOLLIS</b>				Stop:	Minimum:	

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)	PSIA Canister Pressure	Interior Temp (F)	Sampler Init.	Date	Time (24 hr clock)	PSIA Canister Pressure	Interior Temp (F)	Sampler Init.		
1	CAMS #06	A				A846	6L	-	9/2/11	1330	3.71	75	PAH	9/2/11	1330	14.6	75	PAH		
						PAH 9/2/11	A214													

Turnaround Time (Business Days)		Data Deliverable Information		Comments / Remarks	
Standard - 15 Days		All NJDEP TO-15 is mandatory Full T1		<p><b>Received at Baton Rouge Service Center</b></p>	
10 Day	Approved By: _____	Comm A			
5 Day	Date: _____	Comm B			
3 Day		Reduced T2			
2 Day		Full T1			
1 Day		Other:			
Other					

Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by: <b>Paul Hollis</b>	Date Time: <b>9/2/11 10:15</b>	Received by: <b>Shana Beason</b>	Relinquished by: <b>Shana Beason</b>	Date Time: <b>9/2/11 9:30</b>	Received by: <b>FED EX</b>
Relinquished by: <b>FED EX</b>	Date Time: <b>9/2/11 9:30</b>	Received by: <b>[Signature]</b>	Relinquished by:	Date Time:	Received by:
Relinquished by:	Date Time:	Received by:	Custody Seal #		



Accutest Job Number JA86990

Client:

Date / Time Received: 9/23/2011

Project:

No. Coolers: 0

Airbill #'s:

Delivery Method:

<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. Smpl 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:		

<u>Quality Control Preservation</u>	<u>Y or N</u>		<u>N/A</u>
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"/>

<u>Sample Integrity - Documentation</u>	<u>Y or 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 or 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 or 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:** JA86990  
**Account:** PROVLABR Providence Engineering  
**Project:** Murphy-CAMS, LA  
**Received:** 09/23/11

32  
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
A214	6	29.4	08/23/11	FZ	CP4948	2W32280.D	JA86990-1	09/23/11	FZ	1			1

**Accutest Bottle Order(s):**  
 KM-8/23/2011-8

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 08/23/11          70                                  29.92