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Automated Report

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Job Number: JC75351

Sampling Date: 09/28/18

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.

A. Paul Ioannidis
General Manager

Client Service contact: Victoria Pushkova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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Sample Summary

Providence Engineering

Job No: JC75351

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC75351-1	09/28/18	15:30 KH	10/04/18	AIR	Ambient Air Grab	CAMS 434

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	CAMS 434	Date Sampled:	09/28/18
Lab Sample ID:	JC75351-1	Date Received:	10/04/18
Matrix:	AIR - Ambient Air Grab Summa ID: A1013	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	3W66962.D	1	10/10/18 03:12	TCH	n/a	n/a	V3W2586
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	4.6	0.20	0.11	ppbv		11	0.48	0.26	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.046	ppbv		ND	0.44	0.10	ug/m3
71-43-2	78.11	Benzene	0.22	0.20	0.012	ppbv		0.70	0.64	0.038	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.027	ppbv		ND	1.3	0.18	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	0.38	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	0.085	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.022	ppbv		ND	0.87	0.096	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.057	ppbv		ND	1.0	0.29	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	0.075	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	0.12	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.048	ppbv		ND	0.53	0.13	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.020	ppbv		ND	0.98	0.098	ug/m3
74-87-3	50.49	Chloromethane	0.80	0.20	0.015	ppbv		1.7	0.41	0.031	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.040	ppbv		ND	0.63	0.13	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.025	ppbv		ND	1.0	0.13	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.024	ppbv		ND	1.3	0.15	ug/m3
110-82-7	84.16	Cyclohexane	0.15	0.20	0.022	ppbv	J	0.52	0.69	0.076	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.012	ppbv		ND	0.81	0.049	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.017	ppbv		ND	0.79	0.067	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.018	ppbv		ND	1.5	0.14	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.021	ppbv		ND	0.81	0.085	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.019	ppbv		ND	0.92	0.088	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.052	ppbv		ND	0.72	0.19	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.57	0.20	0.017	ppbv		2.8	0.99	0.084	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.033	ppbv		ND	1.7	0.28	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.0073	ppbv		ND	0.79	0.029	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.012	ppbv		ND	0.79	0.048	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	0.091	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	0.11	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	0.13	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.018	ppbv		ND	1.2	0.11	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	0.091	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 434	Date Sampled:	09/28/18
Lab Sample ID:	JC75351-1	Date Received:	10/04/18
Matrix:	AIR - Ambient Air Grab	Summa ID:	A1013
Method:	TO-15	Percent Solids:	n/a
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	0.51	0.50	0.22	ppbv		0.96	0.94	0.41	ug/m3
100-41-4	106.2	Ethylbenzene	0.16	0.20	0.015	ppbv	J	0.69	0.87	0.065	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.038	ppbv		ND	0.72	0.14	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.030	ppbv		ND	0.98	0.15	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.017	ppbv		ND	1.5	0.13	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.019	ppbv		ND	1.4	0.13	ug/m3
142-82-5	100.2	Heptane	0.20	0.20	0.018	ppbv		0.82	0.82	0.074	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	0.49	ug/m3
110-54-3	86.17	Hexane	0.47	0.20	0.011	ppbv		1.7	0.70	0.039	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.036	ppbv		ND	0.82	0.15	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.36	0.20	0.065	ppbv		0.88	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.015	ppbv		ND	0.69	0.052	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.43	0.20	0.042	ppbv		1.3	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	0.15	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	0.069	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.033	ppbv		ND	0.82	0.14	ug/m3
115-07-1	42	Propylene	1.1	0.50	0.016	ppbv		1.9	0.86	0.027	ug/m3
100-42-5	104.1	Styrene	0.20	0.20	0.019	ppbv		0.85	0.85	0.081	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.033	ppbv		ND	1.1	0.18	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.027	ppbv		ND	1.4	0.19	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	0.16	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.089	ppbv		ND	1.5	0.66	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.17	0.20	0.033	ppbv	J	0.84	0.98	0.16	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.034	ppbv		ND	0.98	0.17	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.26	0.20	0.022	ppbv		1.2	0.93	0.10	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.014	ppbv		ND	0.61	0.042	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.042	0.040	0.031	ppbv		0.28	0.27	0.21	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.050	ppbv		ND	0.59	0.15	ug/m3
108-88-3	92.14	Toluene	0.54	0.20	0.014	ppbv		2.0	0.75	0.053	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.28	0.20	0.028	ppbv		1.6	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.034	ppbv		ND	0.70	0.12	ug/m3
	106.2	m,p-Xylene	0.59	0.20	0.034	ppbv		2.6	0.87	0.15	ug/m3
95-47-6	106.2	o-Xylene	0.21	0.20	0.017	ppbv		0.91	0.87	0.074	ug/m3
1330-20-7	106.2	Xylenes (total)	0.80	0.20	0.017	ppbv		3.5	0.87	0.074	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		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

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log



AIR

AIR CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499
www.sgs.com/nausa

FED-EX Tracking #	Bottle Order Control # VP-04512-196
SGS Quote #	SGS Job # JC75351

Client / Reporting Information				Project Information							Weather Parameters					Requested Analysis																																																																																																													
Company Name Providence Engineering Address 1201 Main Street City State Zip Baton Rouge LA 70802 Project Contact Paul Hollis/Karen Hudson paul.hollis@providenceeng.com Phone # 225-768-7400 Fax # 225-768-7440 Sampler(s) Name(s) Karen Hudson				Project Name: Valero Refining Street City State Meraux LA Project # 712-001 Client Purchase Order #							Temperature (Fahrenheit) Start: Maximum: Stop: Minimum: Atmospheric Pressure (inches of Hg) Start: Maximum: Stop: Minimum: Other weather comment:					Requested Analysis TO-15																																																																																																													
Lab Sample #	Field ID / Point of Collection	Air Type	Sampling Equipment Info			Start Sampling Information					Stop Sampling Information					TO-15																																																																																																													
			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 434	A	A1013	6L	537	9/27/18	3:30	30	75	KH	9/28/18	3:30	5	75	KH	X																																																																																																													
<table border="1"> <tr> <th colspan="4">Turnaround time (Business days)</th> <th colspan="4">Data Deliverable Information</th> <th colspan="9">Comments / Remarks</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Standard - 10 Days</td> <td colspan="2">Approved By: <u>YA</u></td> <td colspan="4">All NJDEP TO-15 is mandatory Full T1</td> <td colspan="9" rowspan="4"> Fedex Ship/COC seal Sample inventory is verified upon receipt in the Laboratory </td> </tr> <tr> <td><input type="checkbox"/></td> <td>10 Day</td> <td colspan="2">INITIAL ASSESSMENT _____</td> <td colspan="4">Comm A _____</td> </tr> <tr> <td><input type="checkbox"/></td> <td>8 Day</td> <td colspan="2">LABEL VERIFICATION _____</td> <td colspan="4">Comm B _____</td> </tr> <tr> <td><input type="checkbox"/></td> <td>3 Day</td> <td colspan="2"></td> <td colspan="4">Reduced T2 _____</td> </tr> <tr> <td><input type="checkbox"/></td> <td>2 Day</td> <td colspan="2"></td> <td colspan="4">Full T1 _____</td> <td colspan="9"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>1 Day</td> <td colspan="2"></td> <td colspan="4">Other: _____</td> <td colspan="9"></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Other</td> <td colspan="2"></td> <td colspan="4">DKQP reporting _____</td> <td colspan="9"></td> </tr> </table>																	Turnaround time (Business days)				Data Deliverable Information				Comments / Remarks									<input checked="" type="checkbox"/>	Standard - 10 Days	Approved By: <u>YA</u>		All NJDEP TO-15 is mandatory Full T1				Fedex Ship/COC seal Sample inventory is verified upon receipt in the Laboratory									<input type="checkbox"/>	10 Day	INITIAL ASSESSMENT _____		Comm A _____				<input type="checkbox"/>	8 Day	LABEL VERIFICATION _____		Comm B _____				<input type="checkbox"/>	3 Day			Reduced T2 _____				<input type="checkbox"/>	2 Day			Full T1 _____													<input type="checkbox"/>	1 Day			Other: _____													<input type="checkbox"/>	Other			DKQP reporting _____												
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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:	Received By: 2																																																																																																																								
Relinquished by: 3	Date Time: 10/4/18 9:30	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4																																																																																																																								
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #																																																																																																																										



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3

Summa

SGS Sample Receipt Summary

Job Number: JC75351

Client: PROVIDENCE ENG

Project: PROVIDENCE - CAMS

Date / Time Received: 10/4/2018 9:30:00 AM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security

- | | |
|--|---|
| 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"/> |

Cooler Temperature

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

Quality Control Preservation

- | | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|
| 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"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

Sample Integrity - Documentation

- | | | |
|--|-------------------------------------|--------------------------|
| 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"/> |

Sample Integrity - Condition

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 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 | |

Sample Integrity - Instructions

- | | | | |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 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"/> |

Test Strip Lot #s:	pH 1-12: <u>216017</u>	pH 12+: <u>208717</u>	Other: (Specify) _____
--------------------	------------------------	-----------------------	------------------------

Comments

SM089-03
Rev. Date 12/7/17

3.1
3

Summa Canister and Flow Controller Log

Job Number: JC75351
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 10/04/18

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3

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
A1013	6	29.4	09/06/18	JT	CP9962	6W07844.D	JC75351-1	10/09/18	JT	7			1

SGS Bottle Order(s):
 VP-09518-196

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 09/06/18 70 29.92