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Automated Report

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-01

SGS Job Number: JC95502

Sampling Date: 09/17/19

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 handwritten signature in black ink, appearing to read 'Laura Degenhardt'.

Laura Degenhardt
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: JC95502

Valero-CAMS, Baton Rouge, LA
Project No: 712-01

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JC95502-1	09/17/19	13:00 BK	09/23/19	AIR Air	CAMS 493
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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: CAMS 493	Date Sampled: 09/17/19
Lab Sample ID: JC95502-1	Date Received: 09/23/19
Matrix: AIR - Air Summa ID: A1003	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	6W14125.D	1	10/03/19 20:30	TCH	n/a	n/a	V6W585
Run #2							

Run #	Initial Volume
Run #1	100 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	ND	0.80	0.45	ppbv		ND	1.9	1.1	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.18	ppbv		ND	1.8	0.40	ug/m3
71-43-2	78.11	Benzene	2.3	0.80	0.048	ppbv		7.3	2.6	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.11	ppbv		ND	5.4	0.74	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	1.6	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.088	ppbv		ND	3.1	0.34	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.088	ppbv		ND	3.5	0.38	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.23	ppbv		ND	4.1	1.2	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	0.29	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.19	ppbv		ND	2.1	0.50	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.080	ppbv		ND	3.9	0.39	ug/m3
74-87-3	50.49	Chloromethane	0.92	0.80	0.061	ppbv		1.9	1.7	0.13	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.16	ppbv		ND	2.5	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.10	ppbv		ND	4.1	0.52	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.094	ppbv		ND	5.0	0.59	ug/m3
110-82-7	84.16	Cyclohexane	8.5	0.80	0.088	ppbv		29	2.8	0.30	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.046	ppbv		ND	3.2	0.19	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.067	ppbv		ND	3.2	0.27	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.071	ppbv		ND	6.1	0.55	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.083	ppbv		ND	3.2	0.34	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.077	ppbv		ND	3.7	0.36	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.21	ppbv		ND	2.9	0.76	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.40	0.80	0.066	ppbv	J	2.0	4.0	0.33	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.13	ppbv		ND	6.8	1.1	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.029	ppbv		ND	3.2	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.047	ppbv		ND	3.2	0.19	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	0.35	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.076	ppbv		ND	4.8	0.46	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.087	ppbv		ND	4.8	0.52	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.070	ppbv		ND	4.8	0.42	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	0.35	ug/m3

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

Report of Analysis

Client Sample ID:	CAMS 493	Date Sampled:	09/17/19
Lab Sample ID:	JC95502-1	Date Received:	09/23/19
Matrix:	AIR - Air Summa ID: A1003	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	ND	2.0	0.87	ppbv		ND	3.8	1.6	ug/m3
100-41-4	106.2	Ethylbenzene	4.6	0.80	0.060	ppbv		20	3.5	0.26	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.15	ppbv		ND	2.9	0.54	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.70	0.80	0.12	ppbv	J	3.4	3.9	0.59	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.068	ppbv		ND	6.1	0.52	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.076	ppbv		ND	5.6	0.53	ug/m3
142-82-5	100.2	Heptane	15.7	0.80	0.070	ppbv		64.3	3.3	0.29	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	1.9	ug/m3
110-54-3	86.17	Hexane	89.9	0.80	0.042	ppbv		317	2.8	0.15	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.15	ppbv		ND	3.3	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.26	ppbv		ND	2.0	0.64	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.058	ppbv		ND	2.8	0.20	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.53	0.80	0.17	ppbv	J	1.6	2.4	0.50	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	0.57	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.077	ppbv		ND	2.9	0.28	ug/m3
80-62-6	100.12	Methylmethacrylate	0.96	0.80	0.13	ppbv		3.9	3.3	0.53	ug/m3
115-07-1	42	Propylene	ND	2.0	0.064	ppbv		ND	3.4	0.11	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.076	ppbv		ND	3.4	0.32	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.13	ppbv		ND	4.4	0.71	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.11	ppbv		ND	5.5	0.76	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.35	ppbv		ND	5.9	2.6	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.0	0.80	0.13	ppbv		9.8	3.9	0.64	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.65	0.80	0.13	ppbv	J	3.2	3.9	0.64	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	28.8	0.80	0.087	ppbv		135	3.7	0.41	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.055	ppbv		ND	2.4	0.17	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.12	ppbv		ND	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.20	ppbv		ND	2.4	0.59	ug/m3
108-88-3	92.14	Toluene	2.1	0.80	0.058	ppbv		7.9	3.0	0.22	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.11	ppbv		ND	4.5	0.62	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.089	ppbv		ND	2.0	0.23	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.14	ppbv		ND	2.8	0.49	ug/m3
	106.2	m,p-Xylene	8.1	0.80	0.14	ppbv		35	3.5	0.61	ug/m3
95-47-6	106.2	o-Xylene	1.7	0.80	0.068	ppbv		7.4	3.5	0.30	ug/m3
1330-20-7	106.2	Xylenes (total)	9.8	0.80	0.068	ppbv		43	3.5	0.30	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		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

PAGE OF

SGS North America Inc. - Dayton
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TEL: 732-329-0200 FAX: 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #	Order Control #
SGS Quote #	SGS Job #
	VP-082219-198
	JC95502

Company Name PROVIDENCE ENGINEERING	Project Name VALCO REFINING	Temperature (Fahrenheit)
Address 1201 MAHON STREET	Street	Start: Maximum:
City RAVEN RIDGE LA 70402	City MEKMARK LA	Stop: Minimum:
State LA	State LA	Atmospheric Pressure (inches of Hg)
Zip 70402	Project # 712-01	Start: Maximum:
Project Contact PAUL HOLLES paul.holles@providenceeng.com	Client Purchase Order #	Stop: Minimum:
Phone # (225) 766-7400		Other weather comment:
Fax # (225) 766-7440		

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 (24hr clock)	Canister Pressure (Psi)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure (Psi)	Interior Temp (F)	Sampler Init.		
1	CRAMS 493				A1003	6L	537	9/16	1300	30	76	PSK	9/17	1300	6	76	PSK		

Turnaround Time (Business days)	Date Deliverable Information	Comments / Remarks
<input checked="" type="checkbox"/> Standard - 15 Days <input 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	All NUDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other:	INITIAL ASSESSMENT YA @ LABEL VERIFICATION (M) Sample inventory is verified upon receipt in the Laboratory SUMMA

Relinquished by Laboratory	Date Time	Received By	Date Time	Relinquished by	Date Time	Received By	Date Time
1	8/26/19 16:25	[Signature]	7/26/19 09:02	FOX	2/23/19 10:59	[Signature]	FOX
2							
3							
4							
5							

Form:SM088-03D (revised 2-12-18)

<http://www.sgs.com/en/terms-and-conditions>



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SGS Sample Receipt Summary

Job Number: JC95502

Client: PROVIDENCE ENG

Project: PROVIDENCE - CAMS

Date / Time Received: 9/23/2019 10:30:00 AM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security

- | | |
|--|---|
| 1. Custody Seals Present: <input checked="" type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>N</u> | 3. COC Present: <input checked="" type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>N</u> |
| 2. Custody Seals Intact: <input checked="" type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>N</u> | 4. Smpl Dates/Time OK: <input checked="" type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>N</u> |

Cooler Temperature

- | | |
|--|-----|
| 1. Temp criteria achieved: <input type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>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: _____	229517	pH 12+:	208717	Other: (Specify) _____
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Comments

SM089-03
Rev. Date 12/7/17

Summa Canister and Flow Controller Log

Job Number: JC95502
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 09/23/19

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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
A1003	6	29.4	08/26/19	JT	CP10402	3W70411.D	JC95502-1	09/26/19	ED	6			1

SGS Bottle Order(s):
 VP-082219-198

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 08/26/19 70 29.92