The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Job Number: JD7474

Sampling Date: 05/14/20

Report to:

Providence Engineering

kevincalhoun@providenceeng.com

ATTN: Kevin Calhoun

Total number of pages in report: 14

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.

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)

May 29, 2020

Mr. Paul Hollis
Providence Engineering
1201 Main Street
Baton Rouge, LA 70802

RE: SGS – Dayton, Job # JD7474 – Reissues

Dear Mr. Hollis,

The final report for SGS jobs number JD7474 has been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, the collection date for sample JD7474-1 has been revised to 5/14/2020 per Mr. Brandon Kilpatrick's request. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc.

CONTINUOUS SERVICE IMPROVEMENT!

Our goal is to continuously improve our service to you. Please share your ideas about how we can serve you better at EHS.US.CustomerCare@sgs.com. Your feedback is appreciated!

Sections: 1 2 3

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Sample Summary

Providence Engineering

Job No: JD7474

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD7474-1	05/14/20	13:15	BM	05/20/20	AIR	Ambient Air Comp.	CAMS 533

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: CAMS 533
Lab Sample ID: JD7474-1
Matrix: AIR - Ambient Air Comp. Summa ID: A640
Method: TO-15
Project: Valero-CAMS, Baton Rouge, LA

Date Sampled: 05/14/20
Date Received: 05/20/20
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W41333.D	1	05/21/20 15:37	TCH	n/a	n/a	V5W1692
Run #2	5W41344.D	1	05/22/20 00:33	TCH	n/a	n/a	V5W1692

	Initial Volume
Run #1	400 ml
Run #2	100 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	3.1	0.20	0.11	ppbv		7.4	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	1.3	0.20	0.012	ppbv		4.2	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	0.56	0.20	0.015	ppbv		1.2	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	0.22	0.20	0.022	ppbv		0.76	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	0.37	0.20	0.017	ppbv		1.8	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	0.14	0.20	0.022	ppbv	J	0.84	1.2	0.13	ug/m3
106-46-7	147	p-Dichlorobenzene	0.16	0.20	0.018	ppbv	J	0.96	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 533		
Lab Sample ID:	JD7474-1	**Date Sampled:**	05/14/20
Matrix:	AIR - Ambient Air Comp. Summa ID: A640	**Date Received:**	05/20/20
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	7.0	0.50	0.22	ppbv		13	0.94	0.41	ug/m3
100-41-4	106.2	Ethylbenzene	14.9	0.20	0.015	ppbv		64.7	0.87	0.065	ug/m3
141-78-6	88	Ethyl Acetate	0.29	0.20	0.038	ppbv		1.0	0.72	0.14	ug/m3
622-96-8	120.2	4-Ethyltoluene	18.0	0.20	0.030	ppbv		88.5	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	0.21	0.20	0.018	ppbv		0.86	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	0.52	0.20	0.011	ppbv		1.8	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	ND	0.20	0.065	ppbv		ND	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	0.37	0.20	0.042	ppbv		1.1	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	ND	0.50	0.016	ppbv		ND	0.86	0.027	ug/m3
100-42-5	104.1	Styrene	35.1 [a]	0.80	0.076	ppbv		149 [a]	3.4	0.32	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	0.71	0.20	0.089	ppbv		5.3	1.5	0.66	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	25.2 [a]	0.80	0.13	ppbv		124 [a]	3.9	0.64	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	25.3	0.20	0.034	ppbv		124	0.98	0.17	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.62	0.20	0.022	ppbv		2.9	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	0.068	0.040	0.031	ppbv		0.46	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	4.8	0.20	0.014	ppbv		18	0.75	0.053	ug/m3
79-01-6	131.4	Trichloroethylene	0.19	0.040	0.019	ppbv		1.0	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.18	0.20	0.028	ppbv	J	1.0	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	63.5 [a]	0.80	0.14	ppbv		276 [a]	3.5	0.61	ug/m3
95-47-6	106.2	o-Xylene	35.6 [a]	0.80	0.068	ppbv		155 [a]	3.5	0.30	ug/m3
1330-20-7	106.2	Xylenes (total)	99.1 [a]	0.80	0.068	ppbv		430 [a]	3.5	0.30	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%	102%	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

Report of Analysis

Client Sample ID:	CAMS 533		
Lab Sample ID:	JD7474-1	**Date Sampled:**	05/14/20
Matrix:	AIR - Ambient Air Comp. Summa ID: A640	**Date Received:**	05/20/20
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

(a) Result is from Run# 2

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

AIR CHAIN OF CUSTODY

SGS

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

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FED-EX Tracking #: | Bottle Order Control #: VP01625-25
SGS Quote #: | SGS Job #: 50 7474

Client / Reporting Information

Company Name: Providence Engineering
Address: 1201 Main St.
City: Baton Rouge State: LA Zip: 70802
Project Contact: Paul Hollis E-mail: paulhollis@providenceeng.com
Phone #: 225-766-7400 Fax #: 225-766-7440
Sampler(s) Name(s): Brandon Kilpatrick / Beau Mitchell

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:

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.	Requested Analysis: TO-15
1	Cams 533	A	A640	6L	537	5/13	1315	30	76	TJC	5-13	1315	6	72	BM	X

Turnaround Time (Business days)

- [X] 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:
DKQP reporting

Comments / Remarks

Summa

Sample inventory is verified upon receipt in the Laboratory

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:
1	[signature]	5/13/20 0215	[signature]	[signature]	5/15/2020 0800	Fedex
2						
3	Fedex	5/20/20 9:45	[signature]			
4						
5				Custody Seal #		

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

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

JD7474: Chain of Custody
Page 1 of 4

SGS Sample Receipt Summary

Job Number: JD7474 **Client:** PROVIDENCE ENG **Project:** PROVIDENCE - CAMS

Date / Time Received: 5/20/2020 9:45:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

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:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

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:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 229517 pH 12+: 208717 Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD7474: Chain of Custody
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AIR CHAIN OF CUSTODY

PAGE of

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FED-EX Tracking #

Bottle Order Control #

SGS Quote #

SGS Job # JD7474

Client / Reporting Information

Company Name: Providence Engineering
Address: 1201 Main St.
City: Baton Rouge State: LA Zip: 70802
Project Contact: Paul Hollis E-mail: paulhollis@providenceeng.com
Phone #: 225-766-7400 Fax #: 225-766-7440
Sampler(s) Name(s): Brandon Kilpatrick / Beau Mitchell

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 533	A	A640	6L	531	5/13	1315	30	76	TJC	~~5-13~~ 5/14-TJC	1315	6	72	BM	X

Turnaround Time (Business days)

- [X] 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:
- DKQP reporting

Comments / Remarks

Summa

Sample inventory is verified upon receipt in the Laboratory

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

Relinquished by Laboratory: 1	Date Time: 5/19/20 0945	Received By: 1	Relinquished By: 2	Date Time: 5/15/2020 0800	Received By: 2 Fedex
Relinquished by: 3 Fedex	Date Time: 5/20/20 9:45	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #		

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

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

Job Change Order: JD7474

Requested Date:	5/29/2020	**Received Date:**	5/20/2020
Account Name:	Providence Engineering	**Due Date:**	6/3/2020
Project Description:	Valero-CAMS, Baton Rouge, LA	**Deliverable:**	COMMB
C/O Initiated By:	VLP **PM:** VP	**TAT (Days):**	14

==========

Sample #: JD7474-1 **Change:**

Dept: Please revise collection date to 5/14/20 and re-issue report.

TAT: 14

CAMS 533

==========

Above Changes Per: Brandon Kilpatrick **Date/Time:** 5/29/2020 11:20:02 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD7474: Chain of Custody
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Summa Canister and Flow Controller Log

Job Number: JD7474
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 05/20/20

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
A640	6	29.4	05/06/20	JT	CP10747	6W17377.D	JD7474-1	05/21/20	TCH	7			1

SGS Bottle Order(s):
VP-05620-25

Prep Date	Room Temp(F)	Bar Pres "Hg
05/06/20	70	29.92