

12/16/2020 Mr. Bipul Saraf Yorke Engineering, LLC 31726 Rancho Viejo Road Suite 218 San Juan Capistrano CA 92675

Project Name: Odor Sampling Project #: 357-007-01 Workorder #: 2012173

Dear Mr. Bipul Saraf

The following report includes the data for the above referenced project for sample(s) received on 12/7/2020 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-13A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White Project Manager

180 Blue Ravine Road, Suite B Folsom, CA 95630 T 916-985-1000 F 916-351-8279 www.airtoxics.com



#### WORK ORDER #: 2012173

#### Work Order Summary

CLIENT:	Mr. Bipul Saraf Yorke Engineering, LLC 31726 Rancho Viejo Road Suite 218 San Juan Capistrano, CA 92675	BILL TO:	Mr. Bipul Saraf Yorke Engineering, LLC 31726 Rancho Viejo Road Suite 218 San Juan Capistrano, CA 92675
PHONE:	949-248-8490	<b>P.O.</b> #	357-007-01
FAX:		PROJECT #	357-007-01 Odor Sampling
DATE RECEIVED:	12/07/2020	CONTACT:	Jade White
DATE COMPLETED:	12/16/2020		

FRACTION #	NAME	<u>TEST</u>
01A	Inside AAA	Modified TO-13A
02A	Lab Blank	Modified TO-13A
03A	CCV	Modified TO-13A
04A	LCS	Modified TO-13A
04AA	LCSD	Modified TO-13A

CERTIFIED BY:

layes

DATE: <u>12/16/20</u>

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT NELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021. Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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#### LABORATORY NARRATIVE Modified TO-13A Yorke Engineering, LLC Workorder# 2012173

One PUF/XAD Cartridge sample was received on December 07, 2020. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	TO-13A	ATL Modifications
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-500 ug/mL in Methylene chloride
Method Blank	<mdl< td=""><td><reporting limit<="" td=""></reporting></td></mdl<>	<reporting limit<="" td=""></reporting>
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

### **Receiving Notes**

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A Temperature Blank was not included with the shipment. Temperature was measured on a representative sample and was not within  $4\pm2$  °C. Coolant in the form of blue ice was present. Analysis proceeded.

### **Analytical Notes**

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 11/12/2020.

Sampling volumes were supplied by the client. A sample volume of 396,000 L was used for the Lab Blank.

### **Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- E Exceeds instrument calibration range.
- Q Exceeds quality control limits.
- S Saturated peak.
- J Estimated value.

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data



page for project specific U-flag definition.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



# Summary of Detected Compounds MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

### Client Sample ID: Inside AAA

Lab ID#: 2012173-01A

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Naphthalene	1.0	0.0025	6.1	0.015
2-Methylnaphthalene	1.0	0.0025	4.4	0.011



# Client Sample ID: Inside AAA Lab ID#: 2012173-01A MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

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File Name: Dil. Factor:	12120807 1.00	Date of Collection: 11/30/20 12:4 Date of Analysis: 12/8/20 02:39 P Date of Extraction: 12/8/20		20 02:39 PM
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.0025	6.1	0.015
2-Methylnaphthalene	1.0	0.0025	4.4	0.011
2-Chloronaphthalene	1.0	0.0025	Not Detected	Not Detected
Acenaphthylene	1.0	0.0025	Not Detected	Not Detected
Acenaphthene	1.0	0.0025	Not Detected	Not Detected
Fluorene	1.0	0.0025	Not Detected	Not Detected
Phenanthrene	1.0	0.0025	Not Detected	Not Detected
Anthracene	1.0	0.0025	Not Detected	Not Detected
Fluoranthene	1.0	0.0025	Not Detected	Not Detected
Pyrene	1.0	0.0025	Not Detected	Not Detected
Chrysene	1.0	0.0025	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.0025	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.0025	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.0025	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.0025	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.0025	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.0025	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.0025	Not Detected	Not Detected

#### Air Sample Volume(L): 396000 Container Type: PUF/XAD Cartridge

Container Type: I Of Mile Cartinage		Method Limits	
Surrogates	%Recovery		
Fluorene-d10	77	60-120	
Pyrene-d10	112	60-120	
Benzo(a)pyrene-d12	77	50-150	
Fluoranthene-d10	70	50-150	



### Client Sample ID: Lab Blank Lab ID#: 2012173-02A MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

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File Name: Dil. Factor:	12120806 1.00				
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount Amo (ug) (ug/r		
Naphthalene	1.0	0.0025	Not Detected	Not Detected	
2-Methylnaphthalene	1.0	0.0025	Not Detected	Not Detected	
2-Chloronaphthalene	1.0	0.0025	Not Detected	Not Detected	
Acenaphthylene	1.0	0.0025	Not Detected	Not Detected	
Acenaphthene	1.0	0.0025	Not Detected	Not Detected	
Fluorene	1.0	0.0025	Not Detected	Not Detected	
Phenanthrene	1.0	0.0025	Not Detected	Not Detected	
Anthracene	1.0	0.0025	Not Detected	Not Detected	
Fluoranthene	1.0	0.0025	Not Detected	Not Detected	
Pyrene	1.0	0.0025	Not Detected	Not Detected	
Chrysene	1.0	0.0025	Not Detected	Not Detected	
Benzo(a)anthracene	1.0	0.0025	Not Detected	Not Detected	
Benzo(b)fluoranthene	1.0	0.0025	Not Detected	Not Detected	
Benzo(k)fluoranthene	1.0	0.0025	Not Detected	Not Detected	
Benzo(a)pyrene	1.0	0.0025	Not Detected	Not Detected	
ndeno(1,2,3-c,d)pyrene	1.0	0.0025	Not Detected	Not Detected	
Dibenz(a,h)anthracene	1.0	0.0025	Not Detected	Not Detected	
Benzo(g,h,i)perylene	1.0	0.0025	Not Detected	Not Detected	

#### Air Sample Volume(L): 396000 Container Type: NA - Not Applicable

		Method	
Surrogates	%Recovery	Limits	
- Fluorene-d10	77	60-120	
Pyrene-d10	97	60-120	
Benzo(a)pyrene-d12	84	50-150	
Fluoranthene-d10	65	50-150	



# Client Sample ID: CCV Lab ID#: 2012173-03A MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name: Dil. Factor:	12120803 1.00	Date of Colle Date of Anal Date of Extra	ysis: 12/8/20 12:39 PM
Compound		%Recovery	
Naphthalene		90	
2-Methylnaphthalene		112	
2-Chloronaphthalene		99	
Acenaphthylene		97	
Acenaphthene		90	
Fluorene		91	
Phenanthrene		94	
Anthracene		104	
Fluoranthene		88	
Pyrene		123	
Chrysene		96	
Benzo(a)anthracene		91	
Benzo(b)fluoranthene		102	
Benzo(k)fluoranthene		100	
Benzo(a)pyrene		100	
Indeno(1,2,3-c,d)pyrene		86	
Dibenz(a,h)anthracene		100	
Benzo(g,h,i)perylene		98	

#### Air Sample Volume(L): 1.00 Container Type: NA - Not Applicable

		Method	
Surrogates	%Recovery	Limits	
Fluorene-d10	88	70-130	
Pyrene-d10	118	70-130	
Benzo(a)pyrene-d12	102	70-130	
Fluoranthene-d10	85	70-130	



# Client Sample ID: LCS Lab ID#: 2012173-04A MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name: Dil. Factor:	12120804 1.00	Date of Collect Date of Analys Date of Extract	is: 12/8/20 01:09 PM
Compound		%Recovery	Method Limits
Naphthalene		67	60-120
2-Methylnaphthalene		91	60-120
2-Chloronaphthalene		76	60-120
Acenaphthylene		74	60-120
Acenaphthene		69	60-120
Fluorene		73	60-120
Phenanthrene		80	60-120
Anthracene		84	60-120
Fluoranthene		75	60-120
Pyrene		95	60-120
Chrysene		79	60-120
Benzo(a)anthracene		77	60-120
Benzo(b)fluoranthene		96	60-120
Benzo(k)fluoranthene		74	60-120
Benzo(a)pyrene		81	60-120
Indeno(1,2,3-c,d)pyrene		74	60-120
Dibenz(a,h)anthracene		82	60-120
Benzo(g,h,i)perylene		81	60-120

#### Air Sample Volume(L): 1.00 Container Type: NA - Not Applicable

%Recovery	Method Limits
73	60-120
97	60-120
89	50-150
75	50-150
	73 97 89



### Client Sample ID: LCSD Lab ID#: 2012173-04AA MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name: Dil. Factor:	12120805 1.00	Date of Collection: NA Date of Analysis: 12/8/20 01:39 PM Date of Extraction: 12/8/20	
Compound		%Recovery	Method Limits
Naphthalene		64	60-120
2-Methylnaphthalene		84	60-120
2-Chloronaphthalene		70	60-120
Acenaphthylene		69	60-120
Acenaphthene		66	60-120
Fluorene		66	60-120
Phenanthrene		72	60-120
Anthracene		77	60-120
Fluoranthene		67	60-120
Pyrene		92	60-120
Chrysene		74	60-120
Benzo(a)anthracene		73	60-120
Benzo(b)fluoranthene		93	60-120
Benzo(k)fluoranthene		71	60-120
Benzo(a)pyrene		75	60-120
Indeno(1,2,3-c,d)pyrene		70	60-120
Dibenz(a,h)anthracene		81	60-120
Benzo(g,h,i)perylene		81	60-120

#### Air Sample Volume(L): 1.00 Container Type: NA - Not Applicable

% Pocovoru	Method Limits	
/arecovery	Lillins	
66	60-120	
90	60-120	
84	50-150	
65	50-150	
	90 84	