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12/3/2020
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 #: 2011549

Dear Mr. Bipul Saraf

The following report includes the data for the above referenced project for sample(s) received on 11/24/2020 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

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WORK ORDER #: 2011549

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	**P.O. #**	357-007-01
FAX:		**PROJECT #**	357-007-01 Odor Sampling
DATE RECEIVED:	11/24/2020	**CONTACT:**	Jade White
DATE COMPLETED:	12/03/2020		

FRACTION #	NAME	TEST
01A	Outside 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: Heidi Hayes DATE: 12/03/20

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-13A
Yorke Engineering, LLC
Workorder# 2011549

One PUF/XAD Cartridge sample was received on November 24, 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	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

Sample identification for sample Outside AAA was not provided on the sample tag. Therefore the information on the Chain of Custody was used to process and report the sample.

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 379,000 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

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

Client Sample ID: Outside AAA

Lab ID#: 2011549-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.0026	12	0.031
2-Methylnaphthalene	1.0	0.0026	6.0	0.016
Fluorene	1.0	0.0026	1.1	0.0028
Phenanthrene	1.0	0.0026	1.8	0.0047

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Client Sample ID: Outside AAA

Lab ID#: 2011549-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12112508**	**Date of Collection: 11/19/20**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/20 03:32 PM**	
		Date of Extraction: 11/25/20	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.0026	12	0.031
2-Methylnaphthalene	1.0	0.0026	6.0	0.016
2-Chloronaphthalene	1.0	0.0026	Not Detected	Not Detected
Acenaphthylene	1.0	0.0026	Not Detected	Not Detected
Acenaphthene	1.0	0.0026	Not Detected	Not Detected
Fluorene	1.0	0.0026	1.1	0.0028
Phenanthrene	1.0	0.0026	1.8	0.0047
Anthracene	1.0	0.0026	Not Detected	Not Detected
Fluoranthene	1.0	0.0026	Not Detected	Not Detected
Pyrene	1.0	0.0026	Not Detected	Not Detected
Chrysene	1.0	0.0026	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.0026	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.0026	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.0026	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.0026	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.0026	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.0026	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.0026	Not Detected	Not Detected

Air Sample Volume(L): 379000

Container Type: PUF/XAD Cartridge

Surrogates	%Recovery	Method Limits
Fluorene-d10	83	60-120
Pyrene-d10	111	60-120
Benzo(a)pyrene-d12	77	50-150
Fluoranthene-d10	73	50-150

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Client Sample ID: Lab Blank

Lab ID#: 2011549-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12112506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/20 02:32 PM**	
		Date of Extraction: 11/25/20	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.0026	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.0026	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.0026	Not Detected	Not Detected
Acenaphthylene	1.0	0.0026	Not Detected	Not Detected
Acenaphthene	1.0	0.0026	Not Detected	Not Detected
Fluorene	1.0	0.0026	Not Detected	Not Detected
Phenanthrene	1.0	0.0026	Not Detected	Not Detected
Anthracene	1.0	0.0026	Not Detected	Not Detected
Fluoranthene	1.0	0.0026	Not Detected	Not Detected
Pyrene	1.0	0.0026	Not Detected	Not Detected
Chrysene	1.0	0.0026	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.0026	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.0026	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.0026	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.0026	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.0026	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.0026	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.0026	Not Detected	Not Detected

Air Sample Volume(L): 379000

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	70	60-120
Pyrene-d10	97	60-120
Benzo(a)pyrene-d12	86	50-150
Fluoranthene-d10	65	50-150

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Client Sample ID: CCV

Lab ID#: 2011549-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12112503**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/20 01:03 PM**
		Date of Extraction: NA

Compound	%Recovery
Naphthalene	94
2-Methylnaphthalene	92
2-Chloronaphthalene	98
Acenaphthylene	97
Acenaphthene	96
Fluorene	102
Phenanthrene	98
Anthracene	99
Fluoranthene	97
Pyrene	125
Chrysene	101
Benzo(a)anthracene	104
Benzo(b)fluoranthene	122
Benzo(k)fluoranthene	100
Benzo(a)pyrene	105
Indeno(1,2,3-c,d)pyrene	99
Dibenz(a,h)anthracene	110
Benzo(g,h,i)perylene	107

Air Sample Volume(L): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	96	70-130
Pyrene-d10	121	70-130
Benzo(a)pyrene-d12	109	70-130
Fluoranthene-d10	96	70-130

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Client Sample ID: LCS

Lab ID#: 2011549-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12112504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/20 01:33 PM**	
		Date of Extraction: 11/25/20	

Compound	%Recovery	Method Limits
Naphthalene	63	60-120
2-Methylnaphthalene	66	60-120
2-Chloronaphthalene	70	60-120
Acenaphthylene	68	60-120
Acenaphthene	66	60-120
Fluorene	69	60-120
Phenanthrene	68	60-120
Anthracene	69	60-120
Fluoranthene	69	60-120
Pyrene	85	60-120
Chrysene	67	60-120
Benzo(a)anthracene	76	60-120
Benzo(b)fluoranthene	104	60-120
Benzo(k)fluoranthene	63	60-120
Benzo(a)pyrene	75	60-120
Indeno(1,2,3-c,d)pyrene	73	60-120
Dibenz(a,h)anthracene	81	60-120
Benzo(g,h,i)perylene	80	60-120

Air Sample Volume(L): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	67	60-120
Pyrene-d10	92	60-120
Benzo(a)pyrene-d12	84	50-150
Fluoranthene-d10	67	50-150

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Client Sample ID: LCSD

Lab ID#: 2011549-04AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12112505**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/20 02:02 PM**
		Date of Extraction: 11/25/20

Compound	%Recovery	Method Limits
Naphthalene	67	60-120
2-Methylnaphthalene	71	60-120
2-Chloronaphthalene	79	60-120
Acenaphthylene	76	60-120
Acenaphthene	72	60-120
Fluorene	77	60-120
Phenanthrene	77	60-120
Anthracene	77	60-120
Fluoranthene	72	60-120
Pyrene	102	60-120
Chrysene	81	60-120
Benzo(a)anthracene	86	60-120
Benzo(b)fluoranthene	101	60-120
Benzo(k)fluoranthene	78	60-120
Benzo(a)pyrene	85	60-120
Indeno(1,2,3-c,d)pyrene	82	60-120
Dibenz(a,h)anthracene	90	60-120
Benzo(g,h,i)perylene	89	60-120

Air Sample Volume(L): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	74	60-120
Pyrene-d10	103	60-120
Benzo(a)pyrene-d12	94	50-150
Fluoranthene-d10	71	50-150