From: Braun, Gary <Gary.Braun@aecom.com>
Sent: Wednesday, February 14, 2024 8:45 AM

To: Keller, Ethan J - DNR; info@kinsmanandcompany.com;

natelenz@gmail.com

Cc: Chad Erdmann (Chad.Erdmann@libertysteel.us);

'Howard.Law@gfgalliance.com'; Henderson, David; Lutzen, Chris

Subject: Former FV Steel & Wire Company Site at 111 N. Douglas St. Hortonville,

WI (WDNR BRRTS#: 02-45-560221)

Attachments: 2024-02_Former FVSW Jan'24 Indoor Air Results .pdf

CAUTION: This email originated from outside the organization.
Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning -

Attached are the January 2024 indoor air monitoring results for the above referenced site. WMS samplers were deployed at the breathing level of about 5 feet above the floor to mimic worker breathing and air movement zones. Specifically, three indoor air samples were collected in Building E (IA-1), Building D-West (IA-2), and Building D-East (IA-3), as illustrated on the attached site location map. There were no detections of any of the target analyte constituents.

No immediate actions appear to be required to address indoor air quality.

The indoor air passive sampling will continue as outlined in the October 16, 2023, Work Plan Addendum, which includes indoor air sample collection events between March 1st – April 15th, 2024 and in June 2024.

Please do not hesitate to contact me with any questions.

Regards, Gary

Gary Braun, P.G.

Project Manager/Senior Hydrogeologist M +1-414-526-6224 Gary.Braun@aecom.com

AECOM

1555 N. RiverCenter Drive, Suite 214 Milwaukee, WI 53212, USA T +1-414-944-6080 aecom.com



Indoor Air Monitoring Results January 2024



2/13/2024 Mr. Gary Braun AECOM 1555 North RiverCenter Drive Suite 214 Milwaukee WI 53212

Project Name: FV STEEL AND WiRE

Project #: 60428891 Workorder #: 2401619

Dear Mr. Gary Braun

The following report includes the data for the above referenced project for sample(s) received on 1/31/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. WMS 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



WORK ORDER #: 2401619

Work Order Summary

CLIENT: Mr. Gary Braun BILL TO: Accounts Payable Austin

AECOM AECOM

1555 North RiverCenter Drive PO Box 203970 Suite 214 Austin, TX 78720

Milwaukee, WI 53212

PHONE: (414)-831-4100 **P.O.** # FV STEEL AND WIRE

FAX: (414)-831-4101 PROJECT # 60428891 FV STEEL AND WIRE

DATE RECEIVED: 01/31/2024 **CONTACT:** Jade White

DATE COMPLETED: 02/13/2024

FRACTION #	NAME	<u>TEST</u>
01A	IA-1	Passive S.E. WMS
02A	IA-2	Passive S.E. WMS
03A	IA-3	Passive S.E. WMS
04A	Trip Blank	Passive S.E. WMS
05A	Lab Blank	Passive S.E. WMS
06A	CCV	Passive S.E. WMS
07A	LCS	Passive S.E. WMS
07AA	LCSD	Passive S.E. WMS

	1	eide Tlayer		
CERTIFIED BY:	0	00	DATE: $\frac{02/13/24}{}$	

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017 Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.



LABORATORY NARRATIVE WMS Passive SE by Mod EPA TO-17 AECOM Workorder# 2401619

Four WMS-SE samples were received on January 31, 2024. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

Please note that 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) can degrade into Trichloroethene (TCE) during storage on the charcoal-based sorbent used in the WMS device. Samples containing 1,1,2,2-PCA may yield reduced concentrations of 1,1,2,2-PCA and elevated concentrations of TCE.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	TO-17	ATL Modifications
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 10240 minutes was applied.

Definition of Data Qualifying Flags

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

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.
 - C Estimated concentration due to calculated sampling rate
 - CN See case narrative explanation.

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 VOC BY PASSIVE SAMPLER - GC/MS

Client Sample ID: IA-1
Lab ID#: 2401619-01A
No Detections Were Found.

Client Sample ID: IA-2

Lab ID#: 2401619-02A

No Detections Were Found.

Client Sample ID: IA-3

Lab ID#: 2401619-03A

No Detections Were Found.

Client Sample ID: Trip Blank

Lab ID#: 2401619-04A
No Detections Were Found.



Client Sample ID: IA-1 Lab ID#: 2401619-01A

VOC BY PASSIVE SAMPLER - GC/MS

 File Name:
 c020810sim
 Date of Collection: 1/29/24 11:00:00 AM

 Dil. Factor:
 1.00
 Date of Analysis: 2/8/24 11:09 AM

Date of Extraction: 2/8/24

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Vinyl Chloride	0.20	16	Not Detected	Not Detected
1,1-Dichloroethene	0.20	14	Not Detected	Not Detected
1,1-Dichloroethane	0.050	3.1	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.050	2.6	Not Detected	Not Detected
1,2-Dichloroethane	0.050	2.2	Not Detected	Not Detected
Trichloroethene	0.050	1.9	Not Detected	Not Detected
Tetrachloroethene	0.050	1.2	Not Detected	Not Detected

Temperature = 77.0F, duration time = 10200 minutes.

· ·		Method
Surrogates	%Recovery	Limits
Toluene-d8	102	70-130



Client Sample ID: IA-2 Lab ID#: 2401619-02A

VOC BY PASSIVE SAMPLER - GC/MS

File Name: c020811sim Date of Collection: 1/29/24 11:10:00 AM
Dil. Factor: 1.00 Date of Analysis: 2/8/24 11:36 AM

Date of Extraction: 2/8/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Vinyl Chloride	0.20	16	Not Detected	Not Detected
1,1-Dichloroethene	0.20	14	Not Detected	Not Detected
1,1-Dichloroethane	0.050	3.1	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.050	2.6	Not Detected	Not Detected
1,2-Dichloroethane	0.050	2.2	Not Detected	Not Detected
Trichloroethene	0.050	1.9	Not Detected	Not Detected
Tetrachloroethene	0.050	1.2	Not Detected	Not Detected

Temperature = 77.0F, duration time = 10195 minutes.

· ·		Method
Surrogates	%Recovery	Limits
Toluene-d8	102	70-130



Client Sample ID: IA-3 Lab ID#: 2401619-03A

VOC BY PASSIVE SAMPLER - GC/MS

 File Name:
 c020812sim
 Date of Collection: 1/29/24 11:30:00 AM

 Dil. Factor:
 1.00
 Date of Analysis: 2/8/24 12:03 PM

Date of Extraction: 2/8/24

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Vinyl Chloride	0.20	16	Not Detected	Not Detected
1,1-Dichloroethene	0.20	14	Not Detected	Not Detected
1,1-Dichloroethane	0.050	3.1	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.050	2.6	Not Detected	Not Detected
1,2-Dichloroethane	0.050	2.2	Not Detected	Not Detected
Trichloroethene	0.050	1.9	Not Detected	Not Detected
Tetrachloroethene	0.050	1.3	Not Detected	Not Detected

Temperature = 77.0F, duration time = 10175 minutes.

•		Method
Surrogates	%Recovery	Limits
Toluene-d8	101	70-130



Client Sample ID: Trip Blank Lab ID#: 2401619-04A

VOC BY PASSIVE SAMPLER - GC/MS

File Name: c020813sim Date of Collection: 1/29/24 11:35:00 AM
Dil. Factor: 1.00 Date of Analysis: 2/8/24 12:30 PM
Date of Extraction: 2/8/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Vinyl Chloride	0.20	16	Not Detected	Not Detected
1,1-Dichloroethene	0.20	14	Not Detected	Not Detected
1,1-Dichloroethane	0.050	3.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.050	2.6	Not Detected	Not Detected
1,2-Dichloroethane	0.050	2.2	Not Detected	Not Detected
Trichloroethene	0.050	1.9	Not Detected	Not Detected
Tetrachloroethene	0.050	1.2	Not Detected	Not Detected

Temperature = 77.0F, duration time = 10240 minutes.

		Method
Surrogates	%Recovery	Limits
Toluene-d8	100	70-130



Client Sample ID: Lab Blank Lab ID#: 2401619-05A

VOC BY PASSIVE SAMPLER - GC/MS

File Name: c020805sim Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 2/8/24

Date of Analysis: 2/8/24 08:50 AM Date of Extraction: 2/8/24

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Vinyl Chloride	0.20	16	Not Detected	Not Detected
1,1-Dichloroethene	0.20	14	Not Detected	Not Detected
1,1-Dichloroethane	0.050	3.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.050	2.6	Not Detected	Not Detected
1,2-Dichloroethane	0.050	2.2	Not Detected	Not Detected
Trichloroethene	0.050	1.9	Not Detected	Not Detected
Tetrachloroethene	0.050	1.2	Not Detected	Not Detected

Temperature = 77.0F, duration time = 10240 minutes.

<u>.</u>		Method
Surrogates	%Recovery	Limits
Toluene-d8	102	70-130



Client Sample ID: CCV Lab ID#: 2401619-06A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	c020802sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/8/24 07:28 AM
		Date of Extraction: NA

Compound	%Recovery	
Vinyl Chloride	77	
1,1-Dichloroethene	107	
1,1-Dichloroethane	85	
cis-1,2-Dichloroethene	96	
1,2-Dichloroethane	84	
Trichloroethene	110	
Tetrachloroethene	116	

Container Type: NA - Not Applicable

25 to 15 pp		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	102	70-130	



Toluene-d8

Client Sample ID: LCS Lab ID#: 2401619-07A

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	c020803sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/8/24 07:55 AM

Date of Extraction: 2/8/24

70-130

Compound	%Recovery	Method Limits
Vinyl Chloride	112	50-140
1,1-Dichloroethene	117	70-130
1,1-Dichloroethane	93	70-130
cis-1,2-Dichloroethene	102	70-130
1,2-Dichloroethane	84	70-130
Trichloroethene	114	70-130
Tetrachloroethene	116	70-130
Container Type: NA - Not Applicable		
••		Method
Surrogates	%Recovery	Limits

105



Toluene-d8

Client Sample ID: LCSD Lab ID#: 2401619-07AA

VOC BY PASSIVE SAMPLER - GC/MS

File Name:	c020804sim	Date of Collection: NA
Dil Feeten	4.00	D

Dil. Factor: 1.00 Date of Analysis: 2/8/24 08:22 AM

Date of Extraction: 2/8/24

70-130

		Method	
Compound	%Recovery	Limits	
Vinyl Chloride	115	50-140	
1,1-Dichloroethene	117	70-130	
1,1-Dichloroethane	91	70-130	
cis-1,2-Dichloroethene	98	70-130	
1,2-Dichloroethane	81	70-130	
Trichloroethene	110	70-130	
Tetrachloroethene	112	70-130	
Container Type: NA - Not Applicable			
		Method	
Surrogates	%Recovery	Limits	

102



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Eurofins assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, CHAIN-OF-CUSTODY RECORD defend, and indemnify Eurofins against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

180 BLUE RAVINE ROAD, SUITE B **FOLSOM, CA 95630** (916) 985-1000 FAX (916) 985-1020

,,,,	1000	(0 .	0, 000	. 020
		Daga	o f	

									ragooi
Project Manager	Dary Brain	1///		Project Ir	fo:			Turn Around Time:	Circle Reporting Units:
Collected by: (Print and	d Sign) Chr. 5 Lul zer	· Mes fresh		DO # 1	FEV	STEE	1 AND	☐ Normal	Ulints.
Company AEC	on Emails	Chris Luzena	Daccon.co				L AND		ppbv ppmv
	City Oshkosk		54901			28891		☐ Rush	ug/m³ mg/m³
Phone <u>Z6 Z - 2 -</u>	18-9823 Fax	- 1999 1999 1999 1999 1999 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	Na	Project Na	ime <u>Fv</u>	STEEL	AND WIRE	specify	. dg/m² mg/m²
Lab I.D. Fi	eld Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volum	1 A	nalysis Requested
OVA IA	-/		1/29/24		1/00	70ay		Indo	or Air To-17
OZA IA-	2		1/29124		1129124	1.1 rag		Indo	or Air To-17
03A TA-	- 3		1/29/24		1 /29 124 1136	7000		Indo	sr Dir 70-17
04A 7-11	Blank		1/29/24	1122124	1/24/24 1/35	7 Day	u		76-17
				ļ					
	on the state of th								
Relinquished by: (s	ignature) Date/Time //29/24	Received by:	(signature) (Date/Time EAてし	ببوازوار	1004	Pump Calib Pre-test Flow	ration Informa / Rate:	ation
Relinquished by: (s		Received by:		Date/Time	1545		Post-test Flo	······································	
Relinquished by: (signature) Date/Time Received by: (signature)			(signature)	Date/Time Average Flow Rate:					
3,7,0	.5		(0.30.00.0)				Notes:		
	r Name Air E	3iII.#	Temp (°C)		Conditio	on	Custody Se	eals Intact?	Work Order #
Use FE	DEX		10/14		Good		Yes N	o (None)	