

From: Braun, Gary <Gary.Braun@aecom.com>
Sent: Thursday, January 19, 2023 4:04 PM
To: info@kinsmanandcompany.com; natelenz@gmail.com
Cc: Chad Erdmann (Chad.Erdmann@libertysteel.us);
'Howard.Law@gfgalliance.com'; Henderson, David; Chronert, Roxanne N -
DNR
Subject: Notification of Sub-Slab Vapor Sampling Results - Former FVSW Site in
Hortonville, WI
Attachments: Letter_VI Notice_Owner_2023-01-19.pdf

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safe.**

Mr. Lenz –

Please find attached a notification of the sub-slab vapor monitoring results from November 2022. If you would, please forward these results to your current tenant of Building D, as I do not have their contact information. Refer to the figure in the attachment if you have any questions on building nomenclature. DNR PM and Responsible Party are copied on this notification. Additional information these contacts is provided within.

Regards,
Gary

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January 19, 2023

111 N. Douglas LLC. (Owner)
c/o Mr. Nate Lenz
(Owner Representative)
111 N Douglas St.
Hortonville, WI 54944

Your Reference

Former FVSW Site - Hortonville, WI

Our Reference

Project 60428891

SUBJECT: Notification of Sub-Slab Vapor Sampling Results – Contaminant Detected Above WDNR Screening Level

PROPERTY: Former FV Steel & Wire Company Site, 111 N. Douglas St., Hortonville, WI 54944; WDNR BRRTS #: 02-45-560221

Dear Mr. Lenz:

Included are the findings of a recent investigation on your property by AECOM, conducted on behalf of the former Fox Valley Steel & Wire Company (FVSW). This letter is a follow up to my phone message on January 10, 2023 regarding site activities. As you are aware, this investigation was conducted because of the potential for contaminant vapors from several chlorinated volatile organic compounds (CVOC) that have been detected in low concentrations within groundwater at the above referenced subject property. Vapors from these CVOCs have the potential to migrate upward through the shallow unsaturated soils and accumulate beneath the foundation of site buildings and possibly enter indoor air. The sub-slab vapor investigation is occurring concurrently with the ongoing investigation of groundwater.

Background

Starting in 1948, the subject property was used as a manufacturing facility for various steel and wire products under the name Wire Products. Steel and wire products continued to be manufactured at the subject property under the name "FV Steel & Wire" until 2014. Between 2009 and 2013, site investigations including approximately 50 direct push borings and 13 monitoring wells were advanced and sampled for soil and water analysis. Concentrations of selected VOCs including trichloroethene (TCE) exceeded Wisconsin Administrative Code (WAC) chapter NR 140 enforcement standards (ES) and/or preventive action limits (PALs) in some of the monitoring wells along with the on-site former supply well. The contaminant of concerns at the

Sub-Slab Testing Results

On November 15, 2022, AECOM installed six sampling devices through the floor of your foundation to collect soil vapor samples. Six sub-slab vapor testing monitoring points were collected on November 15, 2022, pursuant to the Vapor Intrusion Monitoring Plan (AECOM, 2021). The samples were then submitted to Pace Analytical Services laboratory in Minneapolis, Minnesota where it underwent laboratory analysis for method TO15 MSV AIR, which included 61 different volatile organic compounds (VOCs), including TCE. The results of the testing are included in Attachment 1 and summarized on Table 1. As highlighted on Table 1, concentrations of trichloroethene (TCE) exceeded the Industrial Vapor Risk Screening Level (VRSL) of 880 ug/m³ at all locations except for SS-6. The sample point locations are illustrated on Figure 1. Three of the highest concentrations were observed at monitoring points (SS-1, SS-4, and SS-5) which were located above or adjacent to the inferred shallow groundwater TCE plume as indicated in Figure 1.

Follow-Up

Using Vapor Intrusion Guidance RR800, the follow-up response to the VRSL exceedances is the determination of indoor air quality. Since initial sub-slab vapor results exceeded screening criteria, indoor air sampling is required to determine the impact of vapor intrusion to the occupied building in accordance with Wis. Adm. Code (WAC) NR 716.11(5)(h). Indoor air sampling can be assessed provided TCE is not currently in use by current tenants (since detections could be attributed to current usage). A follow-up sub-slab monitoring event, which is proposed to include indoor air sampling as well as a lateral expansion of the investigation into Building D-East and Building E, is currently planned for February 2023.

Indoor sampling will allow for evaluation of whether building occupants are potentially exposed to elevated TCE vapors and will allow assessment of how effective the foundation is blocking sub-slab vapors from entering the indoor air of Building D-West. I will be in contact with you to schedule the February 2023 vapor monitoring event in the next few weeks.

Distribution List:

RESPONSIBLE PARTY

Chad Erdmann

Chad.Erdmann@libertysteel.us

Manager, Environmental Engineering - FV Steel & Wire

7000 SW Adams, Peoria, IL 61641

Phone: (309) 697-7165

DNR PROJECT MANAGER

Roxanne Nelezen Chronert

Phone: (920) 362-3981

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OWNER REPRESENTATIVE

Nate Lenz

Kinsman and Company

(920) 740-3156

info@kinsmanandcompany.com (or natelenz@gmail.com)

TENANT (Not Yet Identified)

Please feel free to contact me at (414) 526-6224 or at Gary.Braun@aecom.com if you have any questions about these results.

Sincerely,



Gary M. Braun

Sr. Project Hydrogeologist/PM

AECOM

M: (414) 526-6224

E: Gary.Braun@aecom.com

Attachments

Attachment List

Table 1 – Sub-Slab Vapor Summary Table (Nov. 2022)

Figure 1 – Sub-Slab Testing Locations

Attachment 1 – Understanding Vapor Intrusion (RR-997)

Attachment 2 – Vapor Look-Up Table (RR-0136)

Attachment 3 – Laboratory Report

References

AECOM, 2021. Vapor Intrusion Work Plan dated December 27, 2021; approved by DNR on January 26, 2022.

cc: Mr. Howard Law, GLG Alliance

Table 1
Sub-Slab Vapor Analytical Table (Nov. 2022)

Former FV Steel and Wire Co.
Hortonville, Wisconsin

VOC Constituent	Sub-Slab Vapor Risk Screening Levels			Sample Location					
	Residential VRSL	Small Commercial VRSL	Large Commercial / Industrial VRSL	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6
(Units: ug/m3)				11/15/2022	11/15/2022	11/15/2022	11/15/2022	11/15/2022	11/15/2022
1,1,1-Trichloroethane	170000	730000	2200000	2820	2760	21500	2550	3610	2140
1,1,2,2-Tetrachloroethane				<0.51	<0.51	<0.51	<0.46	<0.55	<2.1
1,1,2-Trichloroethane				<0.46	<0.46	<0.46	<0.42	<0.49	<1.9
1,1,2-Trichlorotrifluoroethane				0.91 J	1.2 J	8.1	0.87 J	1.7 J	3.1 J
1,1-Dichloroethane	600	2600	7700	8.7	1.1 J	18.8	7.6	5.1	<0.79
1,1-Dichloroethene	7000	29000	88000	3.4	2.5	1010 J	1.6	12	43.7
1,2,4-Trichlorobenzene				<10.3	<10.3	<10.3	<9.2	<10.9	<42.3
1,2,4-Trimethylbenzene	2100	8700	26000	4.6	4.9	3.9	3.9	2.6	9.6
1,2-Dibromoethane (EDB)				<0.55	<0.55	<0.55	<0.50	<0.59	<2.3
1,2-Dichlorobenzene				<1.5	<1.5	<1.5	<1.4	<1.6	<6.4
1,2-Dichloroethane	37	160	470	<0.23	<0.23	<0.23	<0.20	<0.24	<0.94
1,2-Dichloropropane				<0.36	<0.36	<0.36	<0.32	<0.38	<1.5
1,3,5-Trimethylbenzene	2100	8700	26000	1.7 J	2	1.9	1.5 J	1.4 J	4.3 J
1,3-Butadiene				<0.20	<0.20	<0.20	<0.18	<0.21	<0.82
1,3-Dichlorobenzene				<1.5	<1.5	<1.5	<1.3	<1.6	<6.1
1,4-Dichlorobenzene				<1.5	<1.5	<1.5	<1.3	<1.5	<6.0
2-Butanone (MEK)				14.6	16.4	7.7	15.6	31.9	22.1 J
2-Hexanone				1.8 J	2.7 J	<1.2	2.2 J	<1.3	<5.1
2-Propanol				13.1	7.1	9.8	13.5	18.1	37.8
4-Ethyltoluene				1.7 J	2.1 J	2.0 J	2.1 J	1.3 J	<3.0
4-Methyl-2-pentanone (MIBK)				2.2 J	3.4 J	1.8 J	2.9 J	2.7 J	7.1 J
Acetone				287	243	107	287	270	303
Benzene	120	530	1600	4.1	5.4	6.3	4.6	4.8	17.6
Benzyl chloride				<1.4	<1.4	<1.4	<1.2	<1.5	<5.7
Bromodichloromethane				<0.57	<0.57	<0.57	<0.52	<0.61	<2.4
Bromoform				<1.4	<1.4	<1.4	<1.3	<1.5	<5.7
Bromomethane				<0.53	<0.53	<0.53	<0.48	<0.56	<2.2
Carbon disulfide				18.6	1.6	0.62 J	0.81 J	14.6	5.6
Carbon tetrachloride	160	670	2000	<0.75	<0.75	<0.75	<0.67	<0.80	<3.1
Chlorobenzene				<0.25	<0.25	<0.25	<0.22	<0.26	<1.0
Chloroethane				<0.37	<0.37	<0.37	<0.33	<0.39	<1.5
Chloroform	40	180	530	19.5	6.2	2.8	73.9	12.1	<0.99
Chloromethane	3100	13000	39000	<0.16	<0.16	<0.16	<0.14	0.75 J	<0.65
Cyclohexane				<0.24	<0.24	<0.24	<0.22	<0.25	63.3
Dibromochloromethane				<0.64	<0.64	<0.64	<0.58	<0.68	<2.7
Dichlorodifluoromethane	3300	15000	44000	124	61.7	56.8	<793	<749	265
Dichlorotetrafluoroethane				<0.43	<0.43	<0.43	<0.39	<0.46	<1.8
Ethanol				60.6	132	79.4	74.7	90.2	337
Ethyl acetate				<0.29	<0.29	<0.29	<0.26	<0.30	<1.2
Ethylbenzene	370	1600	4900	40.4	36.4	57.6	50.4	39.7	135
Hexachloro-1,3-butadiene				<3.2	<3.2	<3.2	<2.8	<3.3	<13.0
Methyl-tert-butyl ether	3700	16000	47000	<0.45	<0.45	<0.45	<0.40	<0.48	<1.8
Methylene Chloride	21000	87000	260000	<0.22	<0.22	<0.22	<0.20	<0.24	<0.92
Naphthalene	28	120	360	<3.7	<3.7	<3.7	<3.4	<4.0	<15.4
Propylene				<0.64	<0.64	<0.64	16.3	<0.68	<2.6
Styrene				<0.74	2.8	<0.74	<0.67	<0.79	<3.1
Tetrachloroethene	1400	6000	18000	226	129	1290	162	162	118
Tetrahydrofuran				<0.33	<0.33	<0.33	<0.30	<0.35	<1.4
Toluene	170000	730000	2200000	21.5	33.4	32.5	18.7	19.5	104
Trichloroethene	70	290	880	6010	1540	1660	7480	7980	113
Trichlorofluoromethane				1.6 J	1.6 J	1.7 J	1.7 J	2.2	2.6 J
Vinyl acetate				<0.32	<0.32	<0.32	<0.28	<0.33	<1.3
Vinyl chloride	57	930	2800	<0.17	<0.17	<0.17	<0.15	<0.18	<0.71
cis-1,2-Dichloroethene				1.9	<0.38	<0.38	2.6	1.2 J	<1.6
cis-1,3-Dichloropropene				<1.2	<1.2	<1.2	<1.1	<1.2	<4.8
m&p-Xylene				181	164	261	199	188	569
n-Heptane				9.1	9.4	8.4	<0.21	4.9	27.6
n-Hexane				9.8	8.2	9.2	5.7	7.3	26.8
o-Xylene	3300	15000	44000	63.7	53.6	85.2	64.7	58.5	170
trans-1,2-Dichloroethene				<0.74	<0.74	<0.74	1.2 J	<0.79	<3.1
trans-1,3-Dichloropropene				<1.4	<1.4	<1.4	<1.3	<1.5	<5.7

Notes:

VRSL = Vapor Risk Screening Level (Sub-Slab Vapor)

(VRSLs based on May 2022 USEPA Regional Screening Levels)

Value in **bold** exceeds Residential VRSL; Underlined value exceeds Small Commercial VRSL; Highlighted value exceeds Industrial VRSL

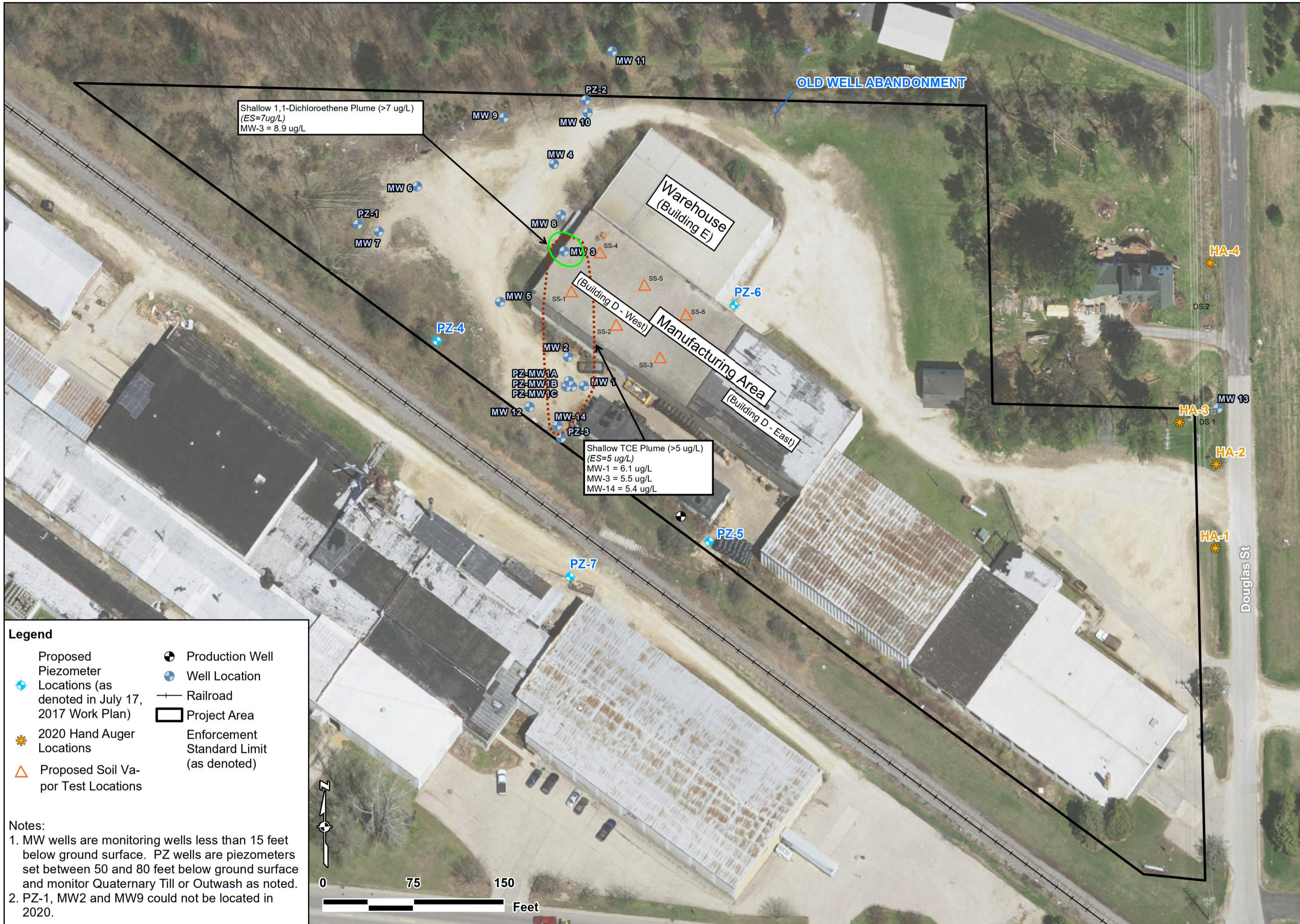
ug/m3 = micrograms per cubic meter

< = Less than reporting limit

J = Estimated concentration

Samples were analyzed for TO-15 by Pace Analytical Services Minneapolis, MN

VOCs = Volatile Organic Compounds



Shallow 1,1-Dichloroethene Plume (>7 ug/L)
(ES=7ug/L)
MW-3 = 8.9 ug/L

Shallow TCE Plume (>5 ug/L)
(ES=5 ug/L)
MW-1 = 6.1 ug/L
MW-3 = 5.5 ug/L
MW-14 = 5.4 ug/L

Legend

- Proposed Piezometer Locations (as denoted in July 17, 2017 Work Plan)
- 2020 Hand Auger Locations
- Proposed Soil Vapor Test Locations
- Production Well
- Well Location
- Railroad
- Project Area
- Enforcement Standard Limit (as denoted)

Notes:

- MW wells are monitoring wells less than 15 feet below ground surface. PZ wells are piezometers set between 50 and 80 feet below ground surface and monitor Quaternary Till or Outwash as noted.
- PZ-1, MW2 and MW9 could not be located in 2020.

**SUB-SLAB VAPOR TESTING LOCATIONS
AND
SHALLOW GROUNDWATER EXCEEDANCES MAP
BASED ON NOVEMBER 2020 SAMPLING**

FV Steel and Wire Company
111 N. Douglas Street, Hortonville, WI

Approved:	G. BRAUN
DATE:	2/11/2021
Scale:	AS SHOWN
PROJECT NUMBER	60428891
FIGURE NUMBER	1

ATTACHMENT 1

Understanding Vapor Intrusion (RR-997)



Understanding Chemical Vapor Intrusion Testing Results

RR-977

October 2014

From the Lab to You

Chemical vapor samples were taken from underneath your house or building and possibly indoors as well. These samples have been tested by a certified laboratory and a report was issued. The Wisconsin Department of Natural Resources (DNR) uses these test results to determine if people in the building are being exposed to chemical vapors coming from nearby contaminated soil or groundwater, and to decide what, if any, action is needed to prevent this exposure.

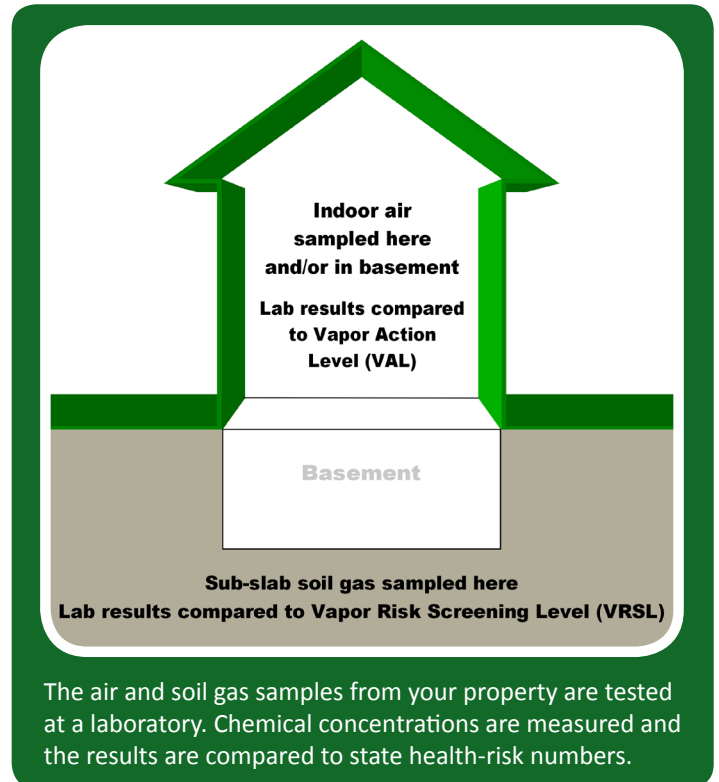
Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. The VAL is a chemical compound's numerical value that represents a health hazard risk to no more than 1 in 100,000 people during a lifetime of exposure. If test results show chemical concentrations in your air below the VAL then adverse health effects are extremely rare, even if you were to breathe the chemical at this concentration for your entire life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposure to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor greatly exceeds the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

The VAL for each chemical is set by scientific research. It is protective of all people, including those who are most susceptible to adverse health effects.

If test results identify chemicals in your air that are not present in nearby soil or groundwater contamination, it is likely that these vapors are coming from some product or activity in or near your house or building. Many everyday consumer products (e.g., cleaners, solvents, polish, adhesives, lubricants, aerosols, insect repellants, etc.); combustion processes (e.g., smoking, home heating); fuels in attached garages; dry cleaned clothing or draperies; and occupant activities (e.g., craft hobbies), also release chemical vapors into the air.



Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.



Wisconsin Department of Natural Resources
P.O. Box 7921, Madison, WI 53707
dnr.wi.gov, search "Brownfields"



DNR generally relies on the test results of the sub-slab soil gas samples when determining what, if any, action should be taken related to chemical vapors coming from nearby soil or groundwater contamination. Indoor air quality is highly variable, and it is difficult to make a definitive decision about vapor intrusion based on indoor air sampling alone.

Follow-Up Actions

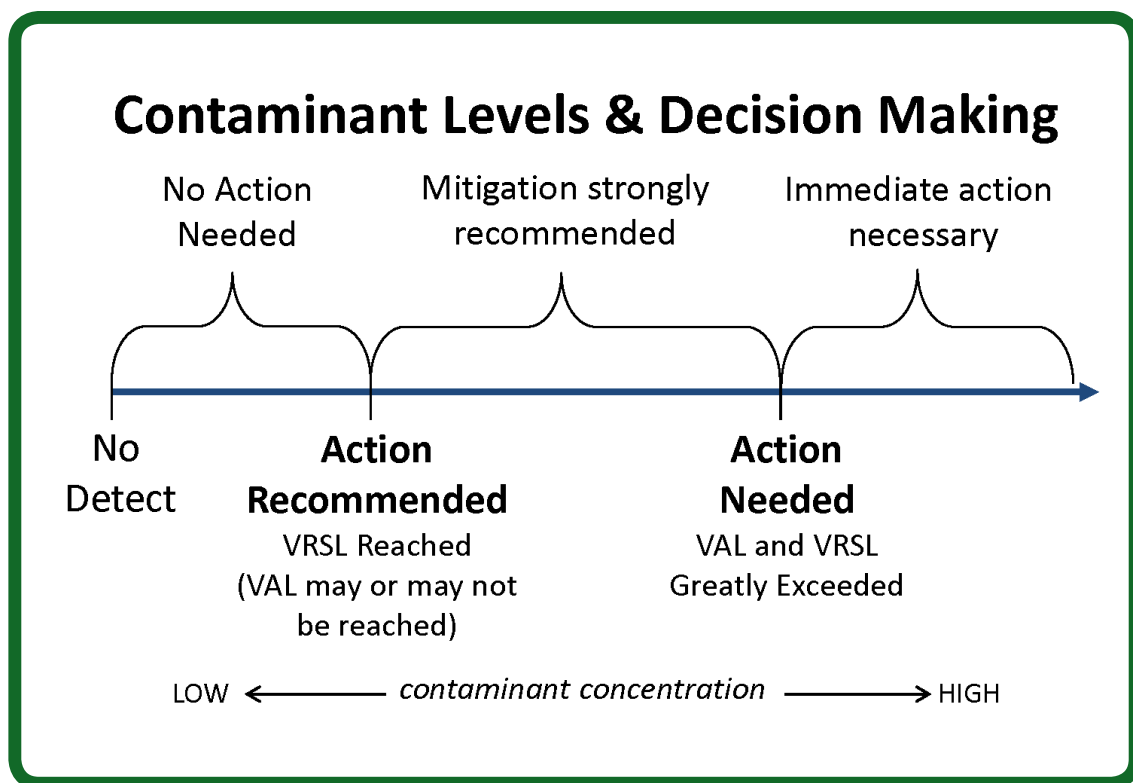
If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

When test results show soil gas chemical concentrations above a VRSL, both DNR and the Wisconsin Department of

Health Services recommend that owners take action to reduce potential exposure. This typically involves installing a vapor mitigation system that vents chemical vapors from beneath your home or building to the outdoors, similar to a radon mitigation system.

If indoor air concentrations exceed a VAL, but sub-slab concentrations are less than a VRSL, then the chemical vapors are most likely coming from indoor sources. Steps should be taken by the house or building owner to identify the products and practices causing the problem and implement appropriate remedies.

If soil gas mitigation is recommended, a representative of the party who is responsible for the soil or groundwater contamination will contact you to discuss your options.



A Note about Measurement Units: The lab report may include some unfamiliar technical language. The most important point to note is whether or not the test result for a specific chemical exceeds a VAL or VRSL, which are also sometimes referred to, generically, as "screening levels."

The concentration of gaseous pollutants in air is typically described in two different ways: 1) as units of mass per volume, where $\mu\text{g}/\text{m}^3$ represents micrograms of gaseous pollutant per cubic meter of ambient air; and 2) as parts per billion by volume (ppbv), where the volume of a gaseous pollutant is compared to a set volume of ambient air. These are the numbers that are compared to the VAL and VRSL.

For more information, visit dnr.wi.gov/topic/Brownfields/Vapor.html

ATTACHMENT 2

Vapor Look-Up Table (RR-0136)

Guidance: Wisconsin Vapor Quick Look-Up Table 1, 2, 3 Indoor Air Vapor Action Levels and Vapor Risk Screening Levels

(Based on November 2022 U.S. EPA Regional Screening Levels)



Remediation and Redevelopment Program January 2023

CHEMICAL	RESIDENTIAL				SMALL COMMERCIAL				LARGE COMMERCIAL/INDUSTRIAL				MOLECULAR WEIGHT	U.S. EPA RSL BASIS
	AF = 0.03								AF = 0.01					
	INDOOR AIR VAL		SUB-SLAB VAPOR VRSL		INDOOR AIR VAL		SUB-SLAB VAPOR VRSL		INDOOR AIR VAL		SUB-SLAB VAPOR VRSL			
	µg/m ³	ppbV	µg/m ³	ppbV	µg/m ³	ppbV	µg/m ³	ppbV	µg/m ³	ppbV	µg/m ³	ppbV	g/mole	
Benzene	3.6	1.1	120	37	16	4.9	520	160	16	4.9	1,600	490	78.11	c
Carbon Tetrachloride	4.7	0.73	160	25	20	3.1	680	110	20	3.1	2,000	310	153.82	c
Chloroform	1.2	0.24	41	8.3	5.3	1.1	180	36	5.3	1.1	530	110	119.38	c
Chloromethane	94	45	3,100	1,500	390	190	13,000	6,200	390	190	39,000	19,000	50.49	n
Dichlorodifluoromethane	100	20	3,500	700	440	88	15,000	3,000	440	88	44,000	8,800	120.91	n
1,1-Dichloroethane (1,1-DCA)	18	4.4	590	140	77	19	2,600	630	77	19	7,700	1,900	98.96	c
1,2-Dichloroethane (1,2-DCA)	1.1	0.27	36	8.7	4.7	1.1	160	39	4.7	1.1	470	110	98.96	c
1,1-Dichloroethylene (1,1-DCE)	210	52	7,000	1,700	880	220	29,000	7,200	880	220	88,000	22,000	96.94	n
Dichloroethylene, cis-1,2-	42	10	1,400	350	180	45	5,800	1,400	180	45	18,000	4,500	96.94	n
Dichloroethylene, trans-1,2-	42	10	1,400	350	180	45	5,800	1,400	180	45	18,000	4,500	96.94	n
Ethylbenzene	11	2.5	370	84	49	11	1,600	360	49	11	4,900	1,100	106.17	c
Methylene Chloride	630	180	21,000	5,900	2,600	740	88,000	25,000	2,600	740	260,000	74,000	84.93	n
Naphthalene	0.83	0.16	28	5.3	3.6	0.68	120	23	3.6	0.68	360	68	128.18	c
Tetrachloroethylene (PCE)	42	6.1	1,400	200	180	26	5,800	840	180	26	18,000	2,600	165.83	n
1,1,1-Trichloroethane (1,1,1-TCA)	5,200	940	170,000	31,000	22,000	4,000	730,000	130,000	22,000	4,000	2,200,000	400,000	133.41	n
Trichloroethylene (TCE)	2.1	0.38	70	13	8.8	1.6	290	53	8.8	1.6	880	160	131.39	n
Trichlorofluoromethane	--	--	--	--	--	--	--	--	--	--	--	--	137.37	--
Vinyl Chloride	1.7	0.65	56	22	28	11	930	360	28	11	2,800	1,100	62.50	c
Xylene (mix)	100	23	3,500	790	440	100	15,000	3,400	440	100	44,000	10,000	106.17	n

Notes

All values in µg/m³ obtained from U.S. EPA Vapor Intrusion Screening Level (VISL) calculator (three significant figures) & rounded to two significant figures.

VISL linked to U.S. EPA RSL database of toxicity and chemical parameters.

All values in ppbV calculated from VALs & VRSLs reported above in µg/m³.

Bolded values are updated from previous version of WI Vapor Quick Look-Up Table.

-- = Inhalation toxicity values not available from U.S. EPA

AF = Attenuation Factor VAL = Vapor Action Level VRSL = Vapor Risk Screening Level U.S. EPA RSL = Regional Screening Level n = noncancer; c = carcinogenic

Immediate Action Criteria: carcinogens (c) = 10 x VAL or VRSL; non-carcinogens (n) = 3 x VAL or VRSL; TCE in indoor air at certain concentrations

Footnotes

1. Quick Look-up Table only includes common contaminants. To determine the VAL and VRSL for other contaminants, refer to the steps on the next page.

2. Concentrations reported in ppbV and µg/m³ are not equivalent for air. If comparing datasets with both units, refer to the instructions on page 3 for how to convert between ppbV and µg/m³.

3. Note indoor air and sub-slab vapor concentrations are variable when making decisions on protecting public health from vapor intrusion under Wis. Admin. Code ch. NR 708.

STEP 1: Check if the contaminant is sufficiently volatile and toxic to pose a vapor risk:

- Open the current “U.S. EPA Vapor Intrusion Screening Levels (VISL) Calculator” website at www.epa.gov/vaporintrusion/vapor-intrusion-screening-level-calculator.
- Select the “Calculator” from the Contents list.
- Set Hazard Quotient (for Non-Carcinogens) to 1 and Target Risk (for Carcinogens) to 10^{-5} .
- Select Exposure Scenario. *[Example: Resident]*
 - Select “Resident” for settings (i.e., land use) meeting the definition of “residential setting” in Wis. Admin. Code § NR 700.03(49g).
 - Select “Commercial” for settings meeting definition of “non-residential setting” (i.e., commercial or industrial) in Wis. Admin. Code § NR 700.03(39m).
- Select Screening Level Type “Default” which will provide an attenuation factor of 0.03. See step 2 to select a different attenuation factor.
- Select Individual Chemical(s). *[Example: Trichloroethylene (TCE)]*
- Click on “Retrieve (new window).”
- Scroll down to “(Resident or Commercial) VISL” *[Example: Resident VISL]* and scroll over to columns 5 and 6 to determine if the chemical is sufficiently volatile and toxic to pose an inhalation risk via vapor intrusion from soil or groundwater source. *[Example: Yes (Soil Source) and Yes (Groundwater Source) for TCE]*
 - If no, this means the chemical does not pose an inhalation risk, and the vapor intrusion assessment may be complete for that chemical.
 - If yes, move to Step 2.

STEP 2: Determine the indoor air Vapor Action Level (VAL)

- For the Exposure Scenario selected in Step 1 *[Example: Resident]*, scroll over to column 7 for “Target Indoor Air Concentration” (now reported on VISL to three significant figures). *[Example: 2.09E+00 for Resident Target Indoor Air Concentration for TCE]*
- Target Indoor Air Concentration rounded to two significant figures = **VAL** for selected Exposure Scenario. *[Example: 2.09E+00 rounded to 2.1 $\mu\text{g}/\text{m}^3$ for Residential VAL for TCE]*
- For additional Exposure Scenarios, return to the VISL Calculator page and select applicable Exposure Scenario as described in Step 1 above. *[Example: Commercial]* Note “Commercial” = all non-residential settings.
- Click on “Retrieve (new window).”
- Scroll down to “(Resident or Commercial) VISL” *[Example: Commercial VISL]* and over to column 7 for “Target Indoor Air Concentration” as described above for the VAL for selected Exposure Scenario. *[Example: 8.76E+00 for Commercial Target Indoor Air Concentration for TCE rounded to 8.8 $\mu\text{g}/\text{m}^3$ for Commercial VAL for TCE]*

STEP 3: Calculate the Vapor Risk Screening Levels (VRSLs)

- Select the appropriate attenuation factor from the table on page 3:
 - Attenuation factor is based on the building type and the location where the sample was collected.
 - It is expected that the *sub-slab vapor attenuation factor* will be the default (0.03) for most sampling scenarios.
- On the retrieval windows specific for each exposure scenario, scroll over to “Target Sub-Slab and Near-source Soil Gas Concentration” and round to two significant figures. *[Example: 6.95E+01 for Residential Target Sub-slab and Near-source Soil Gas Concentration rounded to 70 $\mu\text{g}/\text{m}^3$ for Residential sub-slab VRSL for TCE and 2.92E+02 for Commercial Target Sub-slab and Near-source Soil Gas Concentration rounded to 290 $\mu\text{g}/\text{m}^3$ for Commercial sub-slab VRSL for TCE]*
- For additional Screening Levels (i.e., attenuation factor other than 0.03), choose option A or B:
 - A. Return to the VISL Calculator page. **Note:** If utilizing the VISL Calculator page to calculate VRSLs with attenuation factors other than the default 0.03, always select “Output to PDF” and include the PDF in a submittal to the DNR as support for calculations.
 - Select Screening Level Type “Site Specific.”
 - Select source for chemical physical properties and toxicity values “User-provided.”
 - Click on “Retrieve (new window).”
 - Scroll down to “Groundwater and Soil Gas Equation and Parameters” and update the applicable AF. *[Example: 0.01 for AF_{ss} for sub-slab large commercial or industrial]*
 - Click on “Retrieve,” scroll to appropriate column as described above for the VRSLs and round to two significant figures as described above.
 - B. Divide each VAL by the selected attenuation factor. VAL/attenuation factor = **VRSL** rounded to two significant figures.

*** Groundwater VRSLs:**

- Do not use the VISL Calculator or the formula below for calculating the groundwater VRSL for PCE and TCE. If PCE or TCE are in groundwater, use the respective Wis. Admin. Code ch. NR 140 Enforcement Standards as the vapor screening criteria for plumes at the water table.
- Do not use the VISL Calculator or the formula below for calculating the groundwater VRSL for any contaminant where the groundwater plume is in contact with a building foundation, including PCE and TCE. If groundwater is in contact with the building foundation, use the Wis. Admin. Code ch. NR 140 Preventive Action Limit as the vapor screening criteria.
- Use the VISL Calculator for the default 0.001 attenuation factor for the appropriate exposure scenario and chemical.
- On the retrieval windows specific for each exposure scenario, scroll over to “Target Groundwater Concentration” and round to two significant figures. *[Example: 4.59E+01 for Residential Target Groundwater Concentration rounded to 460 µg/m³ for Residential groundwater VRSL for naphthalene]*
- For additional Screening Levels (i.e., attenuation factor other than 0.001), choose option A or B:
 - A. Return to the VISL Calculator page. **Note:** If utilizing the VISL Calculator page to calculate groundwater VRSLs with attenuation factors other than the default 0.001, always select “Output to PDF” and include the PDF in a submittal to the DNR as support for calculations.
 - Select Screening Level Type “Site Specific.”
 - Select source for chemical physical properties and toxicity values “User-provided.”
 - Click on “Retrieve (new window).”
 - Scroll down to “Groundwater and Soil Gas Equation and Parameters” and update the applicable AF. *[Example: 0.0001 for AF_{gw} for groundwater large commercial or industrial]*
 - Click on “Retrieve,” scroll to appropriate column as described above for the groundwater VRSLs and round to two significant figures as described above.
 - B. Use the following formula to calculate the groundwater concentrations that could cause a VAL exceedance in indoor air for a compound.

MEDIA	ATTENUATION FACTOR	
	RESIDENTIAL OR SMALL COMMERCIAL BUILDING	INDUSTRIAL OR LARGE COMMERCIAL BUILDING
Crawl space	1	1
Sub-slab vapor	0.03	0.01
Deep soil gas	0.01	0.001
Groundwater*	0.001	0.0001
Sanitary sewer gas (from main)**	0.03	0.03

$$C_{gw} = \frac{VAL}{H \times AF \times 1000 \frac{L}{m^3}}$$

Where: C_{gw} = Groundwater Concentration (µg/L)
 VAL = Vapor Action Level (µg/m³)
 AF = attenuation factor (dimensionless or unitless)

- Use groundwater attenuation factor in most cases, or
 - Use the sub-slab attenuation factor if groundwater is near, or in contact with the building foundation.
- H = Henry’s Law constant (dimensionless)
- On the VISL spreadsheet, go to worksheet titled “Parameters Summary” and look up the Henry’s law constant for the chemical.
 - Or go to www3.epa.gov/ceampubl/learn2model/part-two/onsite/esthenry.html Input the temperature and chemical name to get Henry’ law constant.

****Sanitary Sewer Gas Screening Levels:**

- Use *Guidance for Documenting the Investigation of Human-made Preferential Pathways Including Utility Corridors* (RR-649); go to dnr.wi.gov, search “RR-649.”

Convert data from ppbV to µg/m³ (if needed):

- If a vapor dataset has multiple units (ppbV and µg/m³), convert the data to a common unit of measure prior to evaluating trends or comparing values in the data.
- To convert between µg/m³ and ppbV, go to www3.epa.gov/ceampubl/learn2model/part-two/onsite/ia_unit_conversion.html, or use following formula:

$$\mu\text{g}/\text{m}^3 = \frac{\text{ppbV} * \text{MW}}{24.05}$$

Where: MW = molecular weight (g/mole)
 24.05 = conversion factor based on temperature = 20°C and pressure = 1 atm

For additional assistance, contact a DNR vapor intrusion specialist; go to dnr.wi.gov and search “vapor.”

ATTACHMENT 3
Laboratory Report

December 02, 2022

Gary Braun
AECOM
1555 N. River Center Dr.
Ste 214
Milwaukee, WI 53212

RE: Project: FV Steel and Wire Co.
Pace Project No.: 10634079

Dear Gary Braun:

Enclosed are the analytical results for sample(s) received by the laboratory on November 16, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Garret Schacht, AECOM - Wisconsin



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01*

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

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SAMPLE SUMMARY

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10634079001	SS-1	Air	11/15/22 14:02	11/16/22 13:08
10634079002	SS-2	Air	11/15/22 14:11	11/16/22 13:08
10634079003	SS-3	Air	11/15/22 14:15	11/16/22 13:08
10634079004	SS-4	Air	11/15/22 13:54	11/16/22 13:08
10634079005	SS-5	Air	11/15/22 13:50	11/16/22 13:08
10634079006	SS-6	Air	11/15/22 14:19	11/16/22 13:08

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SAMPLE ANALYTE COUNT

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10634079001	SS-1	TO-15	GAS1, GT	61
10634079002	SS-2	TO-15	GAS1, GT	61
10634079003	SS-3	TO-15	GAS1, GT	61
10634079004	SS-4	TO-15	GAS1, GT	61
10634079005	SS-5	TO-15	GAS1, GT	61
10634079006	SS-6	TO-15	GAS1, GT	61

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Method: TO-15

Description: TO15 MSV AIR

Client: AECOM-Wisconsin

Date: December 02, 2022

General Information:

6 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 855484

C8: Result may be biased high due to carryover from previously analyzed sample.

- SS-4 (Lab ID: 10634079004)
- 1,1-Dichloroethene

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Sample: **SS-1** Lab ID: **10634079001** Collected: 11/15/22 14:02 Received: 11/16/22 13:08 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	287	ug/m3	10.8	4.0	1.79		11/28/22 15:54	67-64-1	
Benzene	4.1	ug/m3	0.58	0.20	1.79		11/28/22 15:54	71-43-2	
Benzyl chloride	<1.4	ug/m3	4.7	1.4	1.79		11/28/22 15:54	100-44-7	
Bromodichloromethane	<0.57	ug/m3	2.4	0.57	1.79		11/28/22 15:54	75-27-4	
Bromoform	<1.4	ug/m3	9.4	1.4	1.79		11/28/22 15:54	75-25-2	
Bromomethane	<0.53	ug/m3	1.4	0.53	1.79		11/28/22 15:54	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.81	0.20	1.79		11/28/22 15:54	106-99-0	
2-Butanone (MEK)	14.6	ug/m3	5.4	0.67	1.79		11/28/22 15:54	78-93-3	
Carbon disulfide	18.6	ug/m3	1.1	0.42	1.79		11/28/22 15:54	75-15-0	
Carbon tetrachloride	<0.75	ug/m3	2.3	0.75	1.79		11/28/22 15:54	56-23-5	
Chlorobenzene	<0.25	ug/m3	1.7	0.25	1.79		11/28/22 15:54	108-90-7	
Chloroethane	<0.37	ug/m3	0.96	0.37	1.79		11/28/22 15:54	75-00-3	
Chloroform	19.5	ug/m3	0.89	0.24	1.79		11/28/22 15:54	67-66-3	
Chloromethane	<0.16	ug/m3	0.75	0.16	1.79		11/28/22 15:54	74-87-3	
Cyclohexane	<0.24	ug/m3	3.1	0.24	1.79		11/28/22 15:54	110-82-7	
Dibromochloromethane	<0.64	ug/m3	3.1	0.64	1.79		11/28/22 15:54	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.4	0.55	1.79		11/28/22 15:54	106-93-4	
1,2-Dichlorobenzene	<1.5	ug/m3	5.5	1.5	1.79		11/28/22 15:54	95-50-1	
1,3-Dichlorobenzene	<1.5	ug/m3	5.5	1.5	1.79		11/28/22 15:54	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	5.5	1.5	1.79		11/28/22 15:54	106-46-7	
Dichlorodifluoromethane	124	ug/m3	1.8	0.92	1.79		11/28/22 15:54	75-71-8	
1,1-Dichloroethane	8.7	ug/m3	1.5	0.19	1.79		11/28/22 15:54	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	1.5	0.23	1.79		11/28/22 15:54	107-06-2	
1,1-Dichloroethene	3.4	ug/m3	1.4	0.29	1.79		11/28/22 15:54	75-35-4	
cis-1,2-Dichloroethene	1.9	ug/m3	1.4	0.38	1.79		11/28/22 15:54	156-59-2	
trans-1,2-Dichloroethene	<0.74	ug/m3	1.4	0.74	1.79		11/28/22 15:54	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.7	0.36	1.79		11/28/22 15:54	78-87-5	
cis-1,3-Dichloropropene	<1.2	ug/m3	4.1	1.2	1.79		11/28/22 15:54	10061-01-5	
trans-1,3-Dichloropropene	<1.4	ug/m3	4.1	1.4	1.79		11/28/22 15:54	10061-02-6	
Dichlorotetrafluoroethane	<0.43	ug/m3	2.5	0.43	1.79		11/28/22 15:54	76-14-2	
Ethanol	60.6	ug/m3	3.4	1.6	1.79		11/28/22 15:54	64-17-5	
Ethyl acetate	<0.29	ug/m3	1.3	0.29	1.79		11/28/22 15:54	141-78-6	
Ethylbenzene	40.4	ug/m3	1.6	0.32	1.79		11/28/22 15:54	100-41-4	
4-Ethyltoluene	1.7J	ug/m3	4.5	0.73	1.79		11/28/22 15:54	622-96-8	
n-Heptane	9.1	ug/m3	1.5	0.23	1.79		11/28/22 15:54	142-82-5	
Hexachloro-1,3-butadiene	<3.2	ug/m3	9.7	3.2	1.79		11/28/22 15:54	87-68-3	
n-Hexane	9.8	ug/m3	1.3	0.42	1.79		11/28/22 15:54	110-54-3	
2-Hexanone	1.8J	ug/m3	7.4	1.2	1.79		11/28/22 15:54	591-78-6	
Methylene Chloride	<0.22	ug/m3	6.3	0.22	1.79		11/28/22 15:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	2.2J	ug/m3	7.4	0.96	1.79		11/28/22 15:54	108-10-1	
Methyl-tert-butyl ether	<0.45	ug/m3	6.6	0.45	1.79		11/28/22 15:54	1634-04-4	
Naphthalene	<3.7	ug/m3	4.8	3.7	1.79		11/28/22 15:54	91-20-3	
2-Propanol	13.1	ug/m3	4.5	1.7	1.79		11/28/22 15:54	67-63-0	
Propylene	<0.64	ug/m3	1.6	0.64	1.79		11/28/22 15:54	115-07-1	
Styrene	<0.74	ug/m3	1.6	0.74	1.79		11/28/22 15:54	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Sample: SS-1 **Lab ID: 10634079001** Collected: 11/15/22 14:02 Received: 11/16/22 13:08 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	<0.51	ug/m3	2.5	0.51	1.79		11/28/22 15:54	79-34-5	
Tetrachloroethene	226	ug/m3	1.2	0.44	1.79		11/28/22 15:54	127-18-4	
Tetrahydrofuran	<0.33	ug/m3	1.1	0.33	1.79		11/28/22 15:54	109-99-9	
Toluene	21.5	ug/m3	1.4	0.29	1.79		11/28/22 15:54	108-88-3	
1,2,4-Trichlorobenzene	<10.3	ug/m3	13.5	10.3	1.79		11/28/22 15:54	120-82-1	
1,1,1-Trichloroethane	2820	ug/m3	954	156	859.2		11/29/22 14:47	71-55-6	
1,1,2-Trichloroethane	<0.46	ug/m3	0.99	0.46	1.79		11/28/22 15:54	79-00-5	
Trichloroethene	6010	ug/m3	469	205	859.2		11/29/22 14:47	79-01-6	
Trichlorofluoromethane	1.6J	ug/m3	2.0	0.36	1.79		11/28/22 15:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.91J	ug/m3	2.8	0.41	1.79		11/28/22 15:54	76-13-1	
1,2,4-Trimethylbenzene	4.6	ug/m3	1.8	0.63	1.79		11/28/22 15:54	95-63-6	
1,3,5-Trimethylbenzene	1.7J	ug/m3	1.8	0.49	1.79		11/28/22 15:54	108-67-8	
Vinyl acetate	<0.32	ug/m3	1.3	0.32	1.79		11/28/22 15:54	108-05-4	
Vinyl chloride	<0.17	ug/m3	0.47	0.17	1.79		11/28/22 15:54	75-01-4	
m&p-Xylene	181	ug/m3	3.2	0.88	1.79		11/28/22 15:54	179601-23-1	
o-Xylene	63.7	ug/m3	1.6	0.32	1.79		11/28/22 15:54	95-47-6	

Sample: SS-2 **Lab ID: 10634079002** Collected: 11/15/22 14:11 Received: 11/16/22 13:08 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	243	ug/m3	10.8	4.0	1.79		11/28/22 16:33	67-64-1	
Benzene	5.4	ug/m3	0.58	0.20	1.79		11/28/22 16:33	71-43-2	
Benzyl chloride	<1.4	ug/m3	4.7	1.4	1.79		11/28/22 16:33	100-44-7	
Bromodichloromethane	<0.57	ug/m3	2.4	0.57	1.79		11/28/22 16:33	75-27-4	
Bromoform	<1.4	ug/m3	9.4	1.4	1.79		11/28/22 16:33	75-25-2	
Bromomethane	<0.53	ug/m3	1.4	0.53	1.79		11/28/22 16:33	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.81	0.20	1.79		11/28/22 16:33	106-99-0	
2-Butanone (MEK)	16.4	ug/m3	5.4	0.67	1.79		11/28/22 16:33	78-93-3	
Carbon disulfide	1.6	ug/m3	1.1	0.42	1.79		11/28/22 16:33	75-15-0	
Carbon tetrachloride	<0.75	ug/m3	2.3	0.75	1.79		11/28/22 16:33	56-23-5	
Chlorobenzene	<0.25	ug/m3	1.7	0.25	1.79		11/28/22 16:33	108-90-7	
Chloroethane	<0.37	ug/m3	0.96	0.37	1.79		11/28/22 16:33	75-00-3	
Chloroform	6.2	ug/m3	0.89	0.24	1.79		11/28/22 16:33	67-66-3	
Chloromethane	<0.16	ug/m3	0.75	0.16	1.79		11/28/22 16:33	74-87-3	
Cyclohexane	<0.24	ug/m3	3.1	0.24	1.79		11/28/22 16:33	110-82-7	
Dibromochloromethane	<0.64	ug/m3	3.1	0.64	1.79		11/28/22 16:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.4	0.55	1.79		11/28/22 16:33	106-93-4	
1,2-Dichlorobenzene	<1.5	ug/m3	5.5	1.5	1.79		11/28/22 16:33	95-50-1	
1,3-Dichlorobenzene	<1.5	ug/m3	5.5	1.5	1.79		11/28/22 16:33	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	5.5	1.5	1.79		11/28/22 16:33	106-46-7	

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ANALYTICAL RESULTS

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Sample: SS-2 **Lab ID: 10634079002** Collected: 11/15/22 14:11 Received: 11/16/22 13:08 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	61.7	ug/m3	1.8	0.92	1.79		11/28/22 16:33	75-71-8	
1,1-Dichloroethane	1.1J	ug/m3	1.5	0.19	1.79		11/28/22 16:33	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	1.5	0.23	1.79		11/28/22 16:33	107-06-2	
1,1-Dichloroethene	2.5	ug/m3	1.4	0.29	1.79		11/28/22 16:33	75-35-4	
cis-1,2-Dichloroethene	<0.38	ug/m3	1.4	0.38	1.79		11/28/22 16:33	156-59-2	
trans-1,2-Dichloroethene	<0.74	ug/m3	1.4	0.74	1.79		11/28/22 16:33	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.7	0.36	1.79		11/28/22 16:33	78-87-5	
cis-1,3-Dichloropropene	<1.2	ug/m3	4.1	1.2	1.79		11/28/22 16:33	10061-01-5	
trans-1,3-Dichloropropene	<1.4	ug/m3	4.1	1.4	1.79		11/28/22 16:33	10061-02-6	
Dichlorotetrafluoroethane	<0.43	ug/m3	2.5	0.43	1.79		11/28/22 16:33	76-14-2	
Ethanol	132	ug/m3	3.4	1.6	1.79		11/28/22 16:33	64-17-5	
Ethyl acetate	<0.29	ug/m3	1.3	0.29	1.79		11/28/22 16:33	141-78-6	
Ethylbenzene	36.4	ug/m3	1.6	0.32	1.79		11/28/22 16:33	100-41-4	
4-Ethyltoluene	2.1J	ug/m3	4.5	0.73	1.79		11/28/22 16:33	622-96-8	
n-Heptane	9.4	ug/m3	1.5	0.23	1.79		11/28/22 16:33	142-82-5	
Hexachloro-1,3-butadiene	<3.2	ug/m3	9.7	3.2	1.79		11/28/22 16:33	87-68-3	
n-Hexane	8.2	ug/m3	1.3	0.42	1.79		11/28/22 16:33	110-54-3	
2-Hexanone	2.7J	ug/m3	7.4	1.2	1.79		11/28/22 16:33	591-78-6	
Methylene Chloride	<0.22	ug/m3	6.3	0.22	1.79		11/28/22 16:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	3.4J	ug/m3	7.4	0.96	1.79		11/28/22 16:33	108-10-1	
Methyl-tert-butyl ether	<0.45	ug/m3	6.6	0.45	1.79		11/28/22 16:33	1634-04-4	
Naphthalene	<3.7	ug/m3	4.8	3.7	1.79		11/28/22 16:33	91-20-3	
2-Propanol	7.1	ug/m3	4.5	1.7	1.79		11/28/22 16:33	67-63-0	
Propylene	<0.64	ug/m3	1.6	0.64	1.79		11/28/22 16:33	115-07-1	
Styrene	2.8	ug/m3	1.6	0.74	1.79		11/28/22 16:33	100-42-5	
1,1,2,2-Tetrachloroethane	<0.51	ug/m3	2.5	0.51	1.79		11/28/22 16:33	79-34-5	
Tetrachloroethene	129	ug/m3	1.2	0.44	1.79		11/28/22 16:33	127-18-4	
Tetrahydrofuran	<0.33	ug/m3	1.1	0.33	1.79		11/28/22 16:33	109-99-9	
Toluene	33.4	ug/m3	1.4	0.29	1.79		11/28/22 16:33	108-88-3	
1,2,4-Trichlorobenzene	<10.3	ug/m3	13.5	10.3	1.79		11/28/22 16:33	120-82-1	
1,1,1-Trichloroethane	2760	ug/m3	74.6	12.2	67.2		11/29/22 13:53	71-55-6	
1,1,2-Trichloroethane	<0.46	ug/m3	0.99	0.46	1.79		11/28/22 16:33	79-00-5	
Trichloroethene	1540	ug/m3	36.7	16.1	67.2		11/29/22 13:53	79-01-6	
Trichlorofluoromethane	1.6J	ug/m3	2.0	0.36	1.79		11/28/22 16:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	1.2J	ug/m3	2.8	0.41	1.79		11/28/22 16:33	76-13-1	
1,2,4-Trimethylbenzene	4.9	ug/m3	1.8	0.63	1.79		11/28/22 16:33	95-63-6	
1,3,5-Trimethylbenzene	2.0	ug/m3	1.8	0.49	1.79		11/28/22 16:33	108-67-8	
Vinyl acetate	<0.32	ug/m3	1.3	0.32	1.79		11/28/22 16:33	108-05-4	
Vinyl chloride	<0.17	ug/m3	0.47	0.17	1.79		11/28/22 16:33	75-01-4	
m&p-Xylene	164	ug/m3	3.2	0.88	1.79		11/28/22 16:33	179601-23-1	
o-Xylene	53.6	ug/m3	1.6	0.32	1.79		11/28/22 16:33	95-47-6	

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ANALYTICAL RESULTS

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Sample: SS-3 **Lab ID: 10634079003** Collected: 11/15/22 14:15 Received: 11/16/22 13:08 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	107	ug/m3	10.8	4.0	1.79		11/28/22 17:12	67-64-1	
Benzene	6.3	ug/m3	0.58	0.20	1.79		11/28/22 17:12	71-43-2	
Benzyl chloride	<1.4	ug/m3	4.7	1.4	1.79		11/28/22 17:12	100-44-7	
Bromodichloromethane	<0.57	ug/m3	2.4	0.57	1.79		11/28/22 17:12	75-27-4	
Bromoform	<1.4	ug/m3	9.4	1.4	1.79		11/28/22 17:12	75-25-2	
Bromomethane	<0.53	ug/m3	1.4	0.53	1.79		11/28/22 17:12	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.81	0.20	1.79		11/28/22 17:12	106-99-0	
2-Butanone (MEK)	7.7	ug/m3	5.4	0.67	1.79		11/28/22 17:12	78-93-3	
Carbon disulfide	0.62J	ug/m3	1.1	0.42	1.79		11/28/22 17:12	75-15-0	
Carbon tetrachloride	<0.75	ug/m3	2.3	0.75	1.79		11/28/22 17:12	56-23-5	
Chlorobenzene	<0.25	ug/m3	1.7	0.25	1.79		11/28/22 17:12	108-90-7	
Chloroethane	<0.37	ug/m3	0.96	0.37	1.79		11/28/22 17:12	75-00-3	
Chloroform	2.8	ug/m3	0.89	0.24	1.79		11/28/22 17:12	67-66-3	
Chloromethane	<0.16	ug/m3	0.75	0.16	1.79		11/28/22 17:12	74-87-3	
Cyclohexane	<0.24	ug/m3	3.1	0.24	1.79		11/28/22 17:12	110-82-7	
Dibromochloromethane	<0.64	ug/m3	3.1	0.64	1.79		11/28/22 17:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.4	0.55	1.79		11/28/22 17:12	106-93-4	
1,2-Dichlorobenzene	<1.5	ug/m3	5.5	1.5	1.79		11/28/22 17:12	95-50-1	
1,3-Dichlorobenzene	<1.5	ug/m3	5.5	1.5	1.79		11/28/22 17:12	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	5.5	1.5	1.79		11/28/22 17:12	106-46-7	
Dichlorodifluoromethane	56.8	ug/m3	1.8	0.92	1.79		11/28/22 17:12	75-71-8	
1,1-Dichloroethane	18.8	ug/m3	1.5	0.19	1.79		11/28/22 17:12	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	1.5	0.23	1.79		11/28/22 17:12	107-06-2	
1,1-Dichloroethene	1010J	ug/m3	1390	282	1718		11/29/22 15:14	75-35-4	
cis-1,2-Dichloroethene	<0.38	ug/m3	1.4	0.38	1.79		11/28/22 17:12	156-59-2	
trans-1,2-Dichloroethene	<0.74	ug/m3	1.4	0.74	1.79		11/28/22 17:12	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.7	0.36	1.79		11/28/22 17:12	78-87-5	
cis-1,3-Dichloropropene	<1.2	ug/m3	4.1	1.2	1.79		11/28/22 17:12	10061-01-5	
trans-1,3-Dichloropropene	<1.4	ug/m3	4.1	1.4	1.79		11/28/22 17:12	10061-02-6	
Dichlorotetrafluoroethane	<0.43	ug/m3	2.5	0.43	1.79		11/28/22 17:12	76-14-2	
Ethanol	79.4	ug/m3	3.4	1.6	1.79		11/28/22 17:12	64-17-5	
Ethyl acetate	<0.29	ug/m3	1.3	0.29	1.79		11/28/22 17:12	141-78-6	
Ethylbenzene	57.6	ug/m3	1.6	0.32	1.79		11/28/22 17:12	100-41-4	
4-Ethyltoluene	2.0J	ug/m3	4.5	0.73	1.79		11/28/22 17:12	622-96-8	
n-Heptane	8.4	ug/m3	1.5	0.23	1.79		11/28/22 17:12	142-82-5	
Hexachloro-1,3-butadiene	<3.2	ug/m3	9.7	3.2	1.79		11/28/22 17:12	87-68-3	
n-Hexane	9.2	ug/m3	1.3	0.42	1.79		11/28/22 17:12	110-54-3	
2-Hexanone	<1.2	ug/m3	7.4	1.2	1.79		11/28/22 17:12	591-78-6	
Methylene Chloride	<0.22	ug/m3	6.3	0.22	1.79		11/28/22 17:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	1.8J	ug/m3	7.4	0.96	1.79		11/28/22 17:12	108-10-1	
Methyl-tert-butyl ether	<0.45	ug/m3	6.6	0.45	1.79		11/28/22 17:12	1634-04-4	
Naphthalene	<3.7	ug/m3	4.8	3.7	1.79		11/28/22 17:12	91-20-3	
2-Propanol	9.8	ug/m3	4.5	1.7	1.79		11/28/22 17:12	67-63-0	
Propylene	<0.64	ug/m3	1.6	0.64	1.79		11/28/22 17:12	115-07-1	
Styrene	<0.74	ug/m3	1.6	0.74	1.79		11/28/22 17:12	100-42-5	

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ANALYTICAL RESULTS

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Sample: **SS-3** Lab ID: **10634079003** Collected: 11/15/22 14:15 Received: 11/16/22 13:08 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	<0.51	ug/m3	2.5	0.51	1.79		11/28/22 17:12	79-34-5	
Tetrachloroethene	1290	ug/m3	1180	426	1718		11/29/22 15:14	127-18-4	
Tetrahydrofuran	<0.33	ug/m3	1.1	0.33	1.79		11/28/22 17:12	109-99-9	
Toluene	32.5	ug/m3	1.4	0.29	1.79		11/28/22 17:12	108-88-3	
1,2,4-Trichlorobenzene	<10.3	ug/m3	13.5	10.3	1.79		11/28/22 17:12	120-82-1	
1,1,1-Trichloroethane	21500	ug/m3	1910	311	1718		11/29/22 15:14	71-55-6	
1,1,2-Trichloroethane	<0.46	ug/m3	0.99	0.46	1.79		11/28/22 17:12	79-00-5	
Trichloroethene	1660	ug/m3	938	411	1718		11/29/22 15:14	79-01-6	
Trichlorofluoromethane	1.7J	ug/m3	2.0	0.36	1.79		11/28/22 17:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	8.1	ug/m3	2.8	0.41	1.79		11/28/22 17:12	76-13-1	
1,2,4-Trimethylbenzene	3.9	ug/m3	1.8	0.63	1.79		11/28/22 17:12	95-63-6	
1,3,5-Trimethylbenzene	1.9	ug/m3	1.8	0.49	1.79		11/28/22 17:12	108-67-8	
Vinyl acetate	<0.32	ug/m3	1.3	0.32	1.79		11/28/22 17:12	108-05-4	
Vinyl chloride	<0.17	ug/m3	0.47	0.17	1.79		11/28/22 17:12	75-01-4	
m&p-Xylene	261	ug/m3	3.2	0.88	1.79		11/28/22 17:12	179601-23-1	
o-Xylene	85.2	ug/m3	1.6	0.32	1.79		11/28/22 17:12	95-47-6	

Sample: **SS-4** Lab ID: **10634079004** Collected: 11/15/22 13:54 Received: 11/16/22 13:08 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	287	ug/m3	9.7	3.6	1.61		11/28/22 17:51	67-64-1	
Benzene	4.6	ug/m3	0.52	0.18	1.61		11/28/22 17:51	71-43-2	
Benzyl chloride	<1.2	ug/m3	4.2	1.2	1.61		11/28/22 17:51	100-44-7	
Bromodichloromethane	<0.52	ug/m3	2.2	0.52	1.61		11/28/22 17:51	75-27-4	
Bromoform	<1.3	ug/m3	8.5	1.3	1.61		11/28/22 17:51	75-25-2	
Bromomethane	<0.48	ug/m3	1.3	0.48	1.61		11/28/22 17:51	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.72	0.18	1.61		11/28/22 17:51	106-99-0	
2-Butanone (MEK)	15.6	ug/m3	4.8	0.60	1.61		11/28/22 17:51	78-93-3	
Carbon disulfide	0.81J	ug/m3	1.0	0.38	1.61		11/28/22 17:51	75-15-0	
Carbon tetrachloride	<0.67	ug/m3	2.1	0.67	1.61		11/28/22 17:51	56-23-5	
Chlorobenzene	<0.22	ug/m3	1.5	0.22	1.61		11/28/22 17:51	108-90-7	
Chloroethane	<0.33	ug/m3	0.86	0.33	1.61		11/28/22 17:51	75-00-3	
Chloroform	73.9	ug/m3	0.80	0.22	1.61		11/28/22 17:51	67-66-3	
Chloromethane	<0.14	ug/m3	0.68	0.14	1.61		11/28/22 17:51	74-87-3	
Cyclohexane	<0.22	ug/m3	2.8	0.22	1.61		11/28/22 17:51	110-82-7	
Dibromochloromethane	<0.58	ug/m3	2.8	0.58	1.61		11/28/22 17:51	124-48-1	
1,2-Dibromoethane (EDB)	<0.50	ug/m3	1.3	0.50	1.61		11/28/22 17:51	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/m3	4.9	1.4	1.61		11/28/22 17:51	95-50-1	
1,3-Dichlorobenzene	<1.3	ug/m3	4.9	1.3	1.61		11/28/22 17:51	541-73-1	
1,4-Dichlorobenzene	<1.3	ug/m3	4.9	1.3	1.61		11/28/22 17:51	106-46-7	

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ANALYTICAL RESULTS

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Sample: **SS-4** Lab ID: **10634079004** Collected: 11/15/22 13:54 Received: 11/16/22 13:08 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	<793	ug/m3	1560	793	1546		11/29/22 15:41	75-71-8	
1,1-Dichloroethane	7.6	ug/m3	1.3	0.17	1.61		11/28/22 17:51	75-34-3	
1,2-Dichloroethane	<0.20	ug/m3	1.3	0.20	1.61		11/28/22 17:51	107-06-2	
1,1-Dichloroethene	1.6	ug/m3	1.3	0.26	1.61		11/28/22 17:51	75-35-4	C8
cis-1,2-Dichloroethene	2.6	ug/m3	1.3	0.34	1.61		11/28/22 17:51	156-59-2	
trans-1,2-Dichloroethene	1.2J	ug/m3	1.3	0.67	1.61		11/28/22 17:51	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.5	0.32	1.61		11/28/22 17:51	78-87-5	
cis-1,3-Dichloropropene	<1.1	ug/m3	3.7	1.1	1.61		11/28/22 17:51	10061-01-5	
trans-1,3-Dichloropropene	<1.3	ug/m3	3.7	1.3	1.61		11/28/22 17:51	10061-02-6	
Dichlorotetrafluoroethane	<0.39	ug/m3	2.3	0.39	1.61		11/28/22 17:51	76-14-2	
Ethanol	74.7	ug/m3	3.1	1.5	1.61		11/28/22 17:51	64-17-5	
Ethyl acetate	<0.26	ug/m3	1.2	0.26	1.61		11/28/22 17:51	141-78-6	
Ethylbenzene	50.4	ug/m3	1.4	0.29	1.61		11/28/22 17:51	100-41-4	
4-Ethyltoluene	2.1J	ug/m3	4.0	0.66	1.61		11/28/22 17:51	622-96-8	
n-Heptane	<0.21	ug/m3	1.3	0.21	1.61		11/28/22 17:51	142-82-5	
Hexachloro-1,3-butadiene	<2.8	ug/m3	8.7	2.8	1.61		11/28/22 17:51	87-68-3	
n-Hexane	5.7	ug/m3	1.2	0.37	1.61		11/28/22 17:51	110-54-3	
2-Hexanone	2.2J	ug/m3	6.7	1.1	1.61		11/28/22 17:51	591-78-6	
Methylene Chloride	<0.20	ug/m3	5.7	0.20	1.61		11/28/22 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	2.9J	ug/m3	6.7	0.87	1.61		11/28/22 17:51	108-10-1	
Methyl-tert-butyl ether	<0.40	ug/m3	5.9	0.40	1.61		11/28/22 17:51	1634-04-4	
Naphthalene	<3.4	ug/m3	4.3	3.4	1.61		11/28/22 17:51	91-20-3	
2-Propanol	13.5	ug/m3	4.0	1.5	1.61		11/28/22 17:51	67-63-0	
Propylene	16.3	ug/m3	1.4	0.57	1.61		11/28/22 17:51	115-07-1	
Styrene	<0.67	ug/m3	1.4	0.67	1.61		11/28/22 17:51	100-42-5	
1,1,2,2-Tetrachloroethane	<0.46	ug/m3	2.3	0.46	1.61		11/28/22 17:51	79-34-5	
Tetrachloroethene	162	ug/m3	1.1	0.40	1.61		11/28/22 17:51	127-18-4	
Tetrahydrofuran	<0.30	ug/m3	0.97	0.30	1.61		11/28/22 17:51	109-99-9	
Toluene	18.7	ug/m3	1.2	0.26	1.61		11/28/22 17:51	108-88-3	
1,2,4-Trichlorobenzene	<9.2	ug/m3	12.1	9.2	1.61		11/28/22 17:51	120-82-1	
1,1,1-Trichloroethane	2550	ug/m3	1720	280	1546		11/29/22 15:41	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/m3	0.89	0.42	1.61		11/28/22 17:51	79-00-5	
Trichloroethene	7480	ug/m3	844	369	1546		11/29/22 15:41	79-01-6	
Trichlorofluoromethane	1.7J	ug/m3	1.8	0.33	1.61		11/28/22 17:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.87J	ug/m3	2.5	0.37	1.61		11/28/22 17:51	76-13-1	
1,2,4-Trimethylbenzene	3.9	ug/m3	1.6	0.56	1.61		11/28/22 17:51	95-63-6	
1,3,5-Trimethylbenzene	1.5J	ug/m3	1.6	0.44	1.61		11/28/22 17:51	108-67-8	
Vinyl acetate	<0.28	ug/m3	1.2	0.28	1.61		11/28/22 17:51	108-05-4	
Vinyl chloride	<0.15	ug/m3	0.42	0.15	1.61		11/28/22 17:51	75-01-4	
m&p-Xylene	199	ug/m3	2.8	0.79	1.61		11/28/22 17:51	179601-23-1	
o-Xylene	64.7	ug/m3	1.4	0.29	1.61		11/28/22 17:51	95-47-6	

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ANALYTICAL RESULTS

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Sample: **SS-5** Lab ID: **10634079005** Collected: 11/15/22 13:50 Received: 11/16/22 13:08 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	270	ug/m3	11.5	4.2	1.9		11/29/22 05:31	67-64-1	
Benzene	4.8	ug/m3	0.62	0.21	1.9		11/29/22 05:31	71-43-2	
Benzyl chloride	<1.5	ug/m3	5.0	1.5	1.9		11/29/22 05:31	100-44-7	
Bromodichloromethane	<0.61	ug/m3	2.6	0.61	1.9		11/29/22 05:31	75-27-4	
Bromoform	<1.5	ug/m3	10	1.5	1.9		11/29/22 05:31	75-25-2	
Bromomethane	<0.56	ug/m3	1.5	0.56	1.9		11/29/22 05:31	74-83-9	
1,3-Butadiene	<0.21	ug/m3	0.86	0.21	1.9		11/29/22 05:31	106-99-0	
2-Butanone (MEK)	31.9	ug/m3	5.7	0.71	1.9		11/29/22 05:31	78-93-3	
Carbon disulfide	14.6	ug/m3	1.2	0.44	1.9		11/29/22 05:31	75-15-0	
Carbon tetrachloride	<0.80	ug/m3	2.4	0.80	1.9		11/29/22 05:31	56-23-5	
Chlorobenzene	<0.26	ug/m3	1.8	0.26	1.9		11/29/22 05:31	108-90-7	
Chloroethane	<0.39	ug/m3	1.0	0.39	1.9		11/29/22 05:31	75-00-3	
Chloroform	12.1	ug/m3	0.94	0.25	1.9		11/29/22 05:31	67-66-3	
Chloromethane	0.75J	ug/m3	0.80	0.17	1.9		11/29/22 05:31	74-87-3	
Cyclohexane	<0.25	ug/m3	3.3	0.25	1.9		11/29/22 05:31	110-82-7	
Dibromochloromethane	<0.68	ug/m3	3.3	0.68	1.9		11/29/22 05:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.59	ug/m3	1.5	0.59	1.9		11/29/22 05:31	106-93-4	
1,2-Dichlorobenzene	<1.6	ug/m3	5.8	1.6	1.9		11/29/22 05:31	95-50-1	
1,3-Dichlorobenzene	<1.6	ug/m3	5.8	1.6	1.9		11/29/22 05:31	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	5.8	1.5	1.9		11/29/22 05:31	106-46-7	
Dichlorodifluoromethane	<749	ug/m3	1470	749	1459		11/29/22 16:08	75-71-8	
1,1-Dichloroethane	5.1	ug/m3	1.6	0.20	1.9		11/29/22 05:31	75-34-3	
1,2-Dichloroethane	<0.24	ug/m3	1.6	0.24	1.9		11/29/22 05:31	107-06-2	
1,1-Dichloroethene	12.0	ug/m3	1.5	0.31	1.9		11/29/22 05:31	75-35-4	
cis-1,2-Dichloroethene	1.2J	ug/m3	1.5	0.41	1.9		11/29/22 05:31	156-59-2	
trans-1,2-Dichloroethene	<0.79	ug/m3	1.5	0.79	1.9		11/29/22 05:31	156-60-5	
1,2-Dichloropropane	<0.38	ug/m3	1.8	0.38	1.9		11/29/22 05:31	78-87-5	
cis-1,3-Dichloropropene	<1.2	ug/m3	4.4	1.2	1.9		11/29/22 05:31	10061-01-5	
trans-1,3-Dichloropropene	<1.5	ug/m3	4.4	1.5	1.9		11/29/22 05:31	10061-02-6	
Dichlorotetrafluoroethane	<0.46	ug/m3	2.7	0.46	1.9		11/29/22 05:31	76-14-2	
Ethanol	90.2	ug/m3	3.6	1.7	1.9		11/29/22 05:31	64-17-5	
Ethyl acetate	<0.30	ug/m3	1.4	0.30	1.9		11/29/22 05:31	141-78-6	
Ethylbenzene	39.7	ug/m3	1.7	0.34	1.9		11/29/22 05:31	100-41-4	
4-Ethyltoluene	1.3J	ug/m3	4.8	0.77	1.9		11/29/22 05:31	622-96-8	
n-Heptane	4.9	ug/m3	1.6	0.25	1.9		11/29/22 05:31	142-82-5	
Hexachloro-1,3-butadiene	<3.3	ug/m3	10.3	3.3	1.9		11/29/22 05:31	87-68-3	
n-Hexane	7.3	ug/m3	1.4	0.44	1.9		11/29/22 05:31	110-54-3	
2-Hexanone	<1.3	ug/m3	7.9	1.3	1.9		11/29/22 05:31	591-78-6	
Methylene Chloride	<0.24	ug/m3	6.7	0.24	1.9		11/29/22 05:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	2.7J	ug/m3	7.9	1.0	1.9		11/29/22 05:31	108-10-1	
Methyl-tert-butyl ether	<0.48	ug/m3	7.0	0.48	1.9		11/29/22 05:31	1634-04-4	
Naphthalene	<4.0	ug/m3	5.1	4.0	1.9		11/29/22 05:31	91-20-3	
2-Propanol	18.1	ug/m3	4.8	1.8	1.9		11/29/22 05:31	67-63-0	
Propylene	<0.68	ug/m3	1.7	0.68	1.9		11/29/22 05:31	115-07-1	
Styrene	<0.79	ug/m3	1.6	0.79	1.9		11/29/22 05:31	100-42-5	

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ANALYTICAL RESULTS

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Sample: SS-5 Lab ID: 10634079005 Collected: 11/15/22 13:50 Received: 11/16/22 13:08 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	<0.55	ug/m3	2.7	0.55	1.9		11/29/22 05:31	79-34-5	
Tetrachloroethene	162	ug/m3	1.3	0.47	1.9		11/29/22 05:31	127-18-4	
Tetrahydrofuran	<0.35	ug/m3	1.1	0.35	1.9		11/29/22 05:31	109-99-9	
Toluene	19.5	ug/m3	1.5	0.31	1.9		11/29/22 05:31	108-88-3	
1,2,4-Trichlorobenzene	<10.9	ug/m3	14.3	10.9	1.9		11/29/22 05:31	120-82-1	
1,1,1-Trichloroethane	3610	ug/m3	1620	264	1459		11/29/22 16:08	71-55-6	
1,1,2-Trichloroethane	<0.49	ug/m3	1.1	0.49	1.9		11/29/22 05:31	79-00-5	
Trichloroethene	7980	ug/m3	797	349	1459		11/29/22 16:08	79-01-6	
Trichlorofluoromethane	2.2	ug/m3	2.2	0.38	1.9		11/29/22 05:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	1.7J	ug/m3	3.0	0.43	1.9		11/29/22 05:31	76-13-1	
1,2,4-Trimethylbenzene	2.6	ug/m3	1.9	0.66	1.9		11/29/22 05:31	95-63-6	
1,3,5-Trimethylbenzene	1.4J	ug/m3	1.9	0.52	1.9		11/29/22 05:31	108-67-8	
Vinyl acetate	<0.33	ug/m3	1.4	0.33	1.9		11/29/22 05:31	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.49	0.18	1.9		11/29/22 05:31	75-01-4	
m&p-Xylene	188	ug/m3	3.4	0.93	1.9		11/29/22 05:31	179601-23-1	
o-Xylene	58.5	ug/m3	1.7	0.34	1.9		11/29/22 05:31	95-47-6	

Sample: SS-6 Lab ID: 10634079006 Collected: 11/15/22 14:19 Received: 11/16/22 13:08 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	303	ug/m3	44.6	16.5	7.39		11/28/22 19:13	67-64-1	
Benzene	17.6	ug/m3	2.4	0.81	7.39		11/28/22 19:13	71-43-2	
Benzyl chloride	<5.7	ug/m3	19.4	5.7	7.39		11/28/22 19:13	100-44-7	
Bromodichloromethane	<2.4	ug/m3	10.1	2.4	7.39		11/28/22 19:13	75-27-4	
Bromoform	<5.7	ug/m3	38.8	5.7	7.39		11/28/22 19:13	75-25-2	
Bromomethane	<2.2	ug/m3	5.8	2.2	7.39		11/28/22 19:13	74-83-9	
1,3-Butadiene	<0.82	ug/m3	3.3	0.82	7.39		11/28/22 19:13	106-99-0	
2-Butanone (MEK)	22.1J	ug/m3	22.2	2.8	7.39		11/28/22 19:13	78-93-3	
Carbon disulfide	5.6	ug/m3	4.7	1.7	7.39		11/28/22 19:13	75-15-0	
Carbon tetrachloride	<3.1	ug/m3	9.5	3.1	7.39		11/28/22 19:13	56-23-5	
Chlorobenzene	<1.0	ug/m3	6.9	1.0	7.39		11/28/22 19:13	108-90-7	
Chloroethane	<1.5	ug/m3	4.0	1.5	7.39		11/28/22 19:13	75-00-3	
Chloroform	<0.99	ug/m3	3.7	0.99	7.39		11/28/22 19:13	67-66-3	
Chloromethane	<0.65	ug/m3	3.1	0.65	7.39		11/28/22 19:13	74-87-3	
Cyclohexane	63.3	ug/m3	12.9	0.99	7.39		11/28/22 19:13	110-82-7	
Dibromochloromethane	<2.7	ug/m3	12.8	2.7	7.39		11/28/22 19:13	124-48-1	
1,2-Dibromoethane (EDB)	<2.3	ug/m3	5.8	2.3	7.39		11/28/22 19:13	106-93-4	
1,2-Dichlorobenzene	<6.4	ug/m3	22.6	6.4	7.39		11/28/22 19:13	95-50-1	
1,3-Dichlorobenzene	<6.1	ug/m3	22.6	6.1	7.39		11/28/22 19:13	541-73-1	
1,4-Dichlorobenzene	<6.0	ug/m3	22.6	6.0	7.39		11/28/22 19:13	106-46-7	

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ANALYTICAL RESULTS

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

Sample: SS-6 **Lab ID: 10634079006** Collected: 11/15/22 14:19 Received: 11/16/22 13:08 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	265	ug/m3	7.5	3.8	7.39		11/28/22 19:13	75-71-8	
1,1-Dichloroethane	<0.79	ug/m3	6.1	0.79	7.39		11/28/22 19:13	75-34-3	
1,2-Dichloroethane	<0.94	ug/m3	6.1	0.94	7.39		11/28/22 19:13	107-06-2	
1,1-Dichloroethene	43.7	ug/m3	6.0	1.2	7.39		11/28/22 19:13	75-35-4	
cis-1,2-Dichloroethene	<1.6	ug/m3	6.0	1.6	7.39		11/28/22 19:13	156-59-2	
trans-1,2-Dichloroethene	<3.1	ug/m3	6.0	3.1	7.39		11/28/22 19:13	156-60-5	
1,2-Dichloropropane	<1.5	ug/m3	6.9	1.5	7.39		11/28/22 19:13	78-87-5	
cis-1,3-Dichloropropene	<4.8	ug/m3	17.1	4.8	7.39		11/28/22 19:13	10061-01-5	
trans-1,3-Dichloropropene	<5.7	ug/m3	17.1	5.7	7.39		11/28/22 19:13	10061-02-6	
Dichlorotetrafluoroethane	<1.8	ug/m3	10.5	1.8	7.39		11/28/22 19:13	76-14-2	
Ethanol	337	ug/m3	14.2	6.7	7.39		11/28/22 19:13	64-17-5	
Ethyl acetate	<1.2	ug/m3	5.4	1.2	7.39		11/28/22 19:13	141-78-6	
Ethylbenzene	135	ug/m3	6.5	1.3	7.39		11/28/22 19:13	100-41-4	
4-Ethyltoluene	<3.0	ug/m3	18.5	3.0	7.39		11/28/22 19:13	622-96-8	
n-Heptane	27.6	ug/m3	6.2	0.95	7.39		11/28/22 19:13	142-82-5	
Hexachloro-1,3-butadiene	<13.0	ug/m3	40.1	13.0	7.39		11/28/22 19:13	87-68-3	
n-Hexane	26.8	ug/m3	5.3	1.7	7.39		11/28/22 19:13	110-54-3	
2-Hexanone	<5.1	ug/m3	30.7	5.1	7.39		11/28/22 19:13	591-78-6	
Methylene Chloride	<0.92	ug/m3	26.1	0.92	7.39		11/28/22 19:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.1J	ug/m3	30.7	4.0	7.39		11/28/22 19:13	108-10-1	
Methyl-tert-butyl ether	<1.8	ug/m3	27.0	1.8	7.39		11/28/22 19:13	1634-04-4	
Naphthalene	<15.4	ug/m3	19.7	15.4	7.39		11/28/22 19:13	91-20-3	
2-Propanol	37.8	ug/m3	18.5	7.1	7.39		11/28/22 19:13	67-63-0	
Propylene	<2.6	ug/m3	6.5	2.6	7.39		11/28/22 19:13	115-07-1	
Styrene	<3.1	ug/m3	6.4	3.1	7.39		11/28/22 19:13	100-42-5	
1,1,2,2-Tetrachloroethane	<2.1	ug/m3	10.3	2.1	7.39		11/28/22 19:13	79-34-5	
Tetrachloroethene	118	ug/m3	5.1	1.8	7.39		11/28/22 19:13	127-18-4	
Tetrahydrofuran	<1.4	ug/m3	4.4	1.4	7.39		11/28/22 19:13	109-99-9	
Toluene	104	ug/m3	5.7	1.2	7.39		11/28/22 19:13	108-88-3	
1,2,4-Trichlorobenzene	<42.3	ug/m3	55.7	42.3	7.39		11/28/22 19:13	120-82-1	
1,1,1-Trichloroethane	2140	ug/m3	41.0	6.7	36.95		11/29/22 13:26	71-55-6	
1,1,2-Trichloroethane	<1.9	ug/m3	4.1	1.9	7.39		11/28/22 19:13	79-00-5	
Trichloroethene	113	ug/m3	4.0	1.8	7.39		11/28/22 19:13	79-01-6	
Trichlorofluoromethane	2.6J	ug/m3	8.4	1.5	7.39		11/28/22 19:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	3.1J	ug/m3	11.5	1.7	7.39		11/28/22 19:13	76-13-1	
1,2,4-Trimethylbenzene	9.6	ug/m3	7.4	2.6	7.39		11/28/22 19:13	95-63-6	
1,3,5-Trimethylbenzene	4.3J	ug/m3	7.4	2.0	7.39		11/28/22 19:13	108-67-8	
Vinyl acetate	<1.3	ug/m3	5.3	1.3	7.39		11/28/22 19:13	108-05-4	
Vinyl chloride	<0.71	ug/m3	1.9	0.71	7.39		11/28/22 19:13	75-01-4	
m&p-Xylene	569	ug/m3	13.1	3.6	7.39		11/28/22 19:13	179601-23-1	
o-Xylene	170	ug/m3	6.5	1.3	7.39		11/28/22 19:13	95-47-6	

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QUALITY CONTROL DATA

Project: FV Steel and Wire Co.
Pace Project No.: 10634079

QC Batch: 855484 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10634079001, 10634079002, 10634079003, 10634079004, 10634079005, 10634079006

METHOD BLANK: 4522213 Matrix: Air
Associated Lab Samples: 10634079001, 10634079002, 10634079003, 10634079004, 10634079005, 10634079006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.090	0.56	11/28/22 08:40	
1,1,2,2-Tetrachloroethane	ug/m3	<0.14	0.70	11/28/22 08:40	
1,1,2-Trichloroethane	ug/m3	<0.13	0.28	11/28/22 08:40	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.11	0.78	11/28/22 08:40	
1,1-Dichloroethane	ug/m3	<0.054	0.41	11/28/22 08:40	
1,1-Dichloroethene	ug/m3	<0.082	0.40	11/28/22 08:40	
1,2,4-Trichlorobenzene	ug/m3	<2.9	3.8	11/28/22 08:40	
1,2,4-Trimethylbenzene	ug/m3	<0.18	0.50	11/28/22 08:40	
1,2-Dibromoethane (EDB)	ug/m3	<0.15	0.39	11/28/22 08:40	MN
1,2-Dichlorobenzene	ug/m3	<0.43	1.5	11/28/22 08:40	
1,2-Dichloroethane	ug/m3	<0.064	0.41	11/28/22 08:40	
1,2-Dichloropropane	ug/m3	<0.10	0.47	11/28/22 08:40	
1,3,5-Trimethylbenzene	ug/m3	<0.14	0.50	11/28/22 08:40	
1,3-Butadiene	ug/m3	<0.056	0.22	11/28/22 08:40	
1,3-Dichlorobenzene	ug/m3	<0.41	1.5	11/28/22 08:40	
1,4-Dichlorobenzene	ug/m3	<0.41	1.5	11/28/22 08:40	
2-Butanone (MEK)	ug/m3	<0.19	1.5	11/28/22 08:40	
2-Hexanone	ug/m3	<0.34	2.1	11/28/22 08:40	
2-Propanol	ug/m3	<0.48	1.2	11/28/22 08:40	
4-Ethyltoluene	ug/m3	<0.20	1.2	11/28/22 08:40	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.27	2.1	11/28/22 08:40	
Acetone	ug/m3	<1.1	3.0	11/28/22 08:40	
Benzene	ug/m3	<0.055	0.16	11/28/22 08:40	
Benzyl chloride	ug/m3	<0.38	1.3	11/28/22 08:40	
Bromodichloromethane	ug/m3	<0.16	0.68	11/28/22 08:40	
Bromoform	ug/m3	<0.39	2.6	11/28/22 08:40	
Bromomethane	ug/m3	<0.15	0.39	11/28/22 08:40	
Carbon disulfide	ug/m3	<0.12	0.32	11/28/22 08:40	
Carbon tetrachloride	ug/m3	<0.21	0.64	11/28/22 08:40	
Chlorobenzene	ug/m3	<0.070	0.47	11/28/22 08:40	
Chloroethane	ug/m3	<0.10	0.27	11/28/22 08:40	
Chloroform	ug/m3	<0.067	0.25	11/28/22 08:40	
Chloromethane	ug/m3	<0.044	0.21	11/28/22 08:40	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	11/28/22 08:40	
cis-1,3-Dichloropropene	ug/m3	<0.33	1.2	11/28/22 08:40	
Cyclohexane	ug/m3	<0.067	0.88	11/28/22 08:40	
Dibromochloromethane	ug/m3	<0.18	0.86	11/28/22 08:40	
Dichlorodifluoromethane	ug/m3	<0.26	0.50	11/28/22 08:40	
Dichlorotetrafluoroethane	ug/m3	<0.12	0.71	11/28/22 08:40	
Ethanol	ug/m3	<0.45	0.96	11/28/22 08:40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

METHOD BLANK: 4522213

Matrix: Air

Associated Lab Samples: 10634079001, 10634079002, 10634079003, 10634079004, 10634079005, 10634079006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.080	0.37	11/28/22 08:40	
Ethylbenzene	ug/m3	<0.090	0.44	11/28/22 08:40	
Hexachloro-1,3-butadiene	ug/m3	<0.88	2.7	11/28/22 08:40	
m&p-Xylene	ug/m3	<0.25	0.88	11/28/22 08:40	
Methyl-tert-butyl ether	ug/m3	<0.12	1.8	11/28/22 08:40	
Methylene Chloride	ug/m3	<0.062	1.8	11/28/22 08:40	
n-Heptane	ug/m3	<0.064	0.42	11/28/22 08:40	
n-Hexane	ug/m3	<0.12	0.36	11/28/22 08:40	
Naphthalene	ug/m3	<1.0	1.3	11/28/22 08:40	
o-Xylene	ug/m3	<0.089	0.44	11/28/22 08:40	
Propylene	ug/m3	<0.18	0.44	11/28/22 08:40	
Styrene	ug/m3	<0.21	0.43	11/28/22 08:40	MN
Tetrachloroethene	ug/m3	<0.12	0.34	11/28/22 08:40	
Tetrahydrofuran	ug/m3	<0.093	0.30	11/28/22 08:40	
Toluene	ug/m3	<0.081	0.38	11/28/22 08:40	
trans-1,2-Dichloroethene	ug/m3	<0.21	0.40	11/28/22 08:40	
trans-1,3-Dichloropropene	ug/m3	<0.39	1.2	11/28/22 08:40	
Trichloroethene	ug/m3	<0.12	0.27	11/28/22 08:40	MN
Trichlorofluoromethane	ug/m3	<0.10	0.57	11/28/22 08:40	
Vinyl acetate	ug/m3	<0.088	0.36	11/28/22 08:40	
Vinyl chloride	ug/m3	<0.048	0.13	11/28/22 08:40	

LABORATORY CONTROL SAMPLE: 4522214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58	62.6	108	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	72.8	84.0	115	70-132	
1,1,2-Trichloroethane	ug/m3	58.3	62.1	106	70-131	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.2	85.9	106	70-130	
1,1-Dichloroethane	ug/m3	42.5	49.2	116	70-130	
1,1-Dichloroethene	ug/m3	41.9	43.4	103	70-130	
1,2,4-Trichlorobenzene	ug/m3	175	192	110	70-130	
1,2,4-Trimethylbenzene	ug/m3	52.5	56.0	107	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.5	89.3	111	70-137	
1,2-Dichlorobenzene	ug/m3	63.9	77.7	122	70-131	
1,2-Dichloroethane	ug/m3	42.4	45.1	106	70-134	
1,2-Dichloropropane	ug/m3	49.3	56.9	115	70-130	
1,3,5-Trimethylbenzene	ug/m3	52.4	55.1	105	70-131	
1,3-Butadiene	ug/m3	23.9	23.1	97	70-139	
1,3-Dichlorobenzene	ug/m3	64.2	68.6	107	70-134	
1,4-Dichlorobenzene	ug/m3	64.3	68.8	107	70-131	
2-Butanone (MEK)	ug/m3	31.3	37.7	121	70-133	
2-Hexanone	ug/m3	43.4	48.0	111	70-136	
2-Propanol	ug/m3	137	145	106	65-133	

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QUALITY CONTROL DATA

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

LABORATORY CONTROL SAMPLE: 4522214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	52.3	57.0	109	70-130	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	54.6	125	70-130	
Acetone	ug/m3	127	132	103	60-134	
Benzene	ug/m3	33.8	36.9	109	70-130	
Benzyl chloride	ug/m3	55.6	57.9	104	70-130	
Bromodichloromethane	ug/m3	71.5	79.6	111	70-130	
Bromoform	ug/m3	110	118	107	70-138	
Bromomethane	ug/m3	41.4	41.7	101	68-131	
Carbon disulfide	ug/m3	33	38.9	118	70-130	
Carbon tetrachloride	ug/m3	66.7	75.6	113	70-132	
Chlorobenzene	ug/m3	49	52.5	107	70-130	
Chloroethane	ug/m3	28.1	30.3	108	70-134	
Chloroform	ug/m3	52.1	58.9	113	70-130	
Chloromethane	ug/m3	22	21.9	100	68-131	
cis-1,2-Dichloroethene	ug/m3	42.1	47.5	113	70-136	
cis-1,3-Dichloropropene	ug/m3	48.2	54.5	113	70-130	
Cyclohexane	ug/m3	36.4	43.0	118	70-131	
Dibromochloromethane	ug/m3	90.6	96.1	106	70-134	
Dichlorodifluoromethane	ug/m3	52.5	54.1	103	70-130	
Dichlorotetrafluoroethane	ug/m3	74.4	75.7	102	70-130	
Ethanol	ug/m3	113	115	102	55-145	
Ethyl acetate	ug/m3	38.4	43.1	112	70-135	
Ethylbenzene	ug/m3	46.2	50.6	110	70-133	
Hexachloro-1,3-butadiene	ug/m3	130	136	104	70-132	
m&p-Xylene	ug/m3	92.4	98.6	107	70-134	
Methyl-tert-butyl ether	ug/m3	38.3	44.0	115	70-131	
Methylene Chloride	ug/m3	36.8	41.9	114	65-132	
n-Heptane	ug/m3	43.5	51.1	118	70-130	
n-Hexane	ug/m3	37.7	44.6	118	70-132	
Naphthalene	ug/m3	63.9	68.8	108	70-130	
o-Xylene	ug/m3	46	50.4	110	70-134	
Propylene	ug/m3	18.6	19.2	103	69-133	
Styrene	ug/m3	45.3	48.1	106	70-135	
Tetrachloroethene	ug/m3	72	76.3	106	70-134	
Tetrahydrofuran	ug/m3	31.3	33.9	108	70-140	
Toluene	ug/m3	40.2	46.6	116	70-136	
trans-1,2-Dichloroethene	ug/m3	42.3	47.8	113	70-134	
trans-1,3-Dichloropropene	ug/m3	48.4	53.8	111	70-131	
Trichloroethene	ug/m3	57.2	60.4	105	70-134	
Trichlorofluoromethane	ug/m3	60.3	58.8	97	63-130	
Vinyl acetate	ug/m3	38.7	41.8	108	70-139	
Vinyl chloride	ug/m3	27.2	27.9	102	70-132	

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QUALITY CONTROL DATA

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

SAMPLE DUPLICATE: 4522923

Parameter	Units	10633186005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	2.6	2.8	7	25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.59		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.53		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.85J		25	
1,1-Dichloroethane	ug/m3	ND	<0.22		25	
1,1-Dichloroethene	ug/m3	ND	<0.34		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<11.8		25	
1,2,4-Trimethylbenzene	ug/m3	2.4	2.4	1	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.64		25	
1,2-Dichlorobenzene	ug/m3	ND	<1.8		25	
1,2-Dichloroethane	ug/m3	ND	<0.26		25	
1,2-Dichloropropane	ug/m3	ND	<0.41		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.56		25	
1,3-Butadiene	ug/m3	ND	<0.23		25	
1,3-Dichlorobenzene	ug/m3	ND	<1.7		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.7		25	
2-Butanone (MEK)	ug/m3	ND	5.6J		25	
2-Hexanone	ug/m3	ND	<1.4		25	
2-Propanol	ug/m3	ND	3.8J		25	
4-Ethyltoluene	ug/m3	ND	<0.84		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<1.1		25	
Acetone	ug/m3	18.1	16.8	7	25	
Benzene	ug/m3	2.3	1.9	17	25	
Benzyl chloride	ug/m3	ND	<1.6		25	
Bromodichloromethane	ug/m3	ND	<0.66		25	
Bromoform	ug/m3	ND	<1.6		25	
Bromomethane	ug/m3	ND	<0.61		25	
Carbon disulfide	ug/m3	11.6	11.2	3	25	
Carbon tetrachloride	ug/m3	ND	<0.86		25	
Chlorobenzene	ug/m3	ND	<0.29		25	
Chloroethane	ug/m3	ND	<0.42		25	
Chloroform	ug/m3	ND	0.70J		25	
Chloromethane	ug/m3	ND	0.39J		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.44		25	
cis-1,3-Dichloropropene	ug/m3	ND	<1.3		25	
Cyclohexane	ug/m3	6.1	5.8	5	25	
Dibromochloromethane	ug/m3	ND	<0.74		25	
Dichlorodifluoromethane	ug/m3	2.4	2.0J		25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.50		25	
Ethanol	ug/m3	19.4	17.0	14	25	
Ethyl acetate	ug/m3	ND	<0.33		25	
Ethylbenzene	ug/m3	ND	1.2J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<3.6		25	
m&p-Xylene	ug/m3	5.8	5.4	7	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.52		25	
Methylene Chloride	ug/m3	ND	1.8J		25	
n-Heptane	ug/m3	9.7	8.9	9	25	

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QUALITY CONTROL DATA

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

SAMPLE DUPLICATE: 4522923

Parameter	Units	10633186005 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	5.1	4.6	9	25	
Naphthalene	ug/m3	ND	<4.3		25	
o-Xylene	ug/m3	ND	1.7J		25	
Propylene	ug/m3	ND	<0.74		25	
Styrene	ug/m3	ND	<0.85		25	
Tetrachloroethene	ug/m3	107	103	4	25	
Tetrahydrofuran	ug/m3	ND	2.3		25	
Toluene	ug/m3	9.3	8.5	9	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.85		25	
trans-1,3-Dichloropropene	ug/m3	ND	<1.6		25	
Trichloroethene	ug/m3	ND	<0.49		25	
Trichlorofluoromethane	ug/m3	ND	1.7J		25	
Vinyl acetate	ug/m3	ND	<0.36		25	
Vinyl chloride	ug/m3	ND	<0.20		25	

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QUALIFIERS

Project: FV Steel and Wire Co.

Pace Project No.: 10634079

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C8 Result may be biased high due to carryover from previously analyzed sample.

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FV Steel and Wire Co.
Pace Project No.: 10634079

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10634079001	SS-1	TO-15	855484		
10634079002	SS-2	TO-15	855484		
10634079003	SS-3	TO-15	855484		
10634079004	SS-4	TO-15	855484		
10634079005	SS-5	TO-15	855484		
10634079006	SS-6	TO-15	855484		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

53673

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Program
Company: AECOM	Report To:	Attention:	<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act
Address: 1555 N Zim-Cater Dr, Ste 214 Milwaukee, WI 53212	Copy To: garret.schacht@aecom.com	Company Name:	<input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other
Email To: Gary.Braun@aecom.com	Purchase Order No.: 60428891	Address: SAME	Location of Sampling by State: WI
Phone: 414-526-6224 Fax:	Project Name: FV Steel and Wire Co.	Pace Quote Reference:	Reporting Units ug/m ³ <input checked="" type="checkbox"/> mg/m ³ <input checked="" type="checkbox"/> PPBV <input checked="" type="checkbox"/> PPMV <input type="checkbox"/> Other
Requested Due Date/TAT: Standard	Project Number:	Pace Project Manager/Sales Rep.	Report Level: <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> Other
		Pace Profile #: 42568	

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes		COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID
		MEDIA	CODE	COMPOSITE START		COMPOSITE - END/GRAB						PM10	3c - Fixed Gas (%)	To-3 BTEX	To-3M (Methane)	To-14	To-15 Full List VOCs	To-15 Short List BTEX	To-15 Short List Chlorinated	
		Tedlar Bag	TB	DATE	TIME	DATE	TIME													
1	SS-1	6LC	9.7	11-15-22	1332	11-15-22	1402	-30	-8	0536	3161								001	
2	SS-2		3.6		1341		1411	-30	-8	2298	2986								002	
3	SS-3		3.7		1345		1415	-30	-9	0537	3204								003	
4	SS-4		9.7		1324		1354	-30	-5	0591	3175								004	
5	SS-5		6.1		1320		1350	-30	-3	0536	3161								005	
6	SS-6		24		1344		1414	-28	-20	2874	2955								006	

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Garret Schacht / AECOM	11-15-22	1600	Matt [Signature] / Pace	11-16-22	13:08	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Garret Schacht
SIGNATURE of SAMPLER:	[Signature]
DATE Signed (MM/DD/YY)	11/15/22

Page 22 of 36

WO#: 10634079



10634079

Technical Phone: 612.607.6386

FC046Rev.01, 03Feb2010



DC#_Title: ENV-FRM-MIN4-0113 v01_Sample Condition Upon Receipt (SCUR) - Air

Effective Date: 02/25/2022

Air Sample Condition Upon Receipt

Client Name: Aecom

Project #:

WO#: 10634079

PM: CT1

Due Date: 11/23/22

CLIENT: AECOM-WI

Courier: [X] FedEx [] UPS [] USPS [] Client [] Pace [] Speedee [] Commercial [] See Exception
Tracking Number: 610187399484, 9473
Custody Seal on Cooler/Box Present? [] Yes [X] No
Seals Intact? [] Yes [] No
Packing Material: [] Bubble Wrap [] Bubble Bags [X] Foam [] None [] Tin Can [] Other:

Date & Initials of Person Examining Contents: 11-16-22 WI

Comments:

Table with 13 rows of checklist items and checkboxes. Items include Chain of Custody Present, Samples Arrived within Hold Time, Short Hold Time Analysis, Rush Turn Around Time Requested, Sufficient Volume, Correct Containers Used, Containers Intact, Media: Air Can, and Do cans need to be pressurized?

Gauge #: [] 10AIR26 [] 10AIR34 [] 10AIR35 [X] 10AIR17 [] 10AIR47 [] 10AIR48

Canisters

Canisters

Table with 10 columns: Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure, Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure. Contains handwritten data for samples 1-6.

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? [] Yes [] No

Person Contacted: _____ Date/Time: _____
Comments/Resolution: _____

Project Manager Review:

Carolynne Trout

Date: 11/17/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).



ANALYTICAL RESULTS

Client: AECOM-Wisconsin
 Phone: 920-451-2640

Lab Project Number: 10634079
 Project Name: FV Steel and Wire Co.

Lab Sample No: 10634079001 ProjSampleNum: 10634079001 Date Collected: 11/15/22 14:02
 Client Sample ID: SS-1 Matrix: Air Date Received: 11/16/22 13:08

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
1,1,1-Trichloroethane	508	ppbv	172	28.1	11/29/22 14:47	GT 71-55-6	
1,1,2,2-Tetrachloroethane	<0.073	ppbv	0.36	0.073	11/28/22 15:54	GAS1 79-34-5	
1,1,2-Trichloroethane	<0.083	ppbv	0.18	0.083	11/28/22 15:54	GAS1 79-00-5	
1,1,2-Trichlorotrifluoroethane	0.12J	ppbv	0.36	0.053	11/28/22 15:54	GAS1 76-13-1	
1,1-Dichloroethane	2.1	ppbv	0.36	0.046	11/28/22 15:54	GAS1 75-34-3	
1,1-Dichloroethene	0.84	ppbv	0.35	0.072	11/28/22 15:54	GAS1 75-35-4	
1,2,4-Trichlorobenzene	<1.4	ppbv	1.8	1.4	11/28/22 15:54	GAS1 120-82-1	
1,2,4-Trimethylbenzene	0.92	ppbv	0.36	0.13	11/28/22 15:54	GAS1 95-63-6	
1,2-Dibromoethane (EDB)	<0.07	ppbv	0.18	0.07	11/28/22 15:54	GAS1 106-93-4	
1,2-Dichlorobenzene	<0.25	ppbv	0.9	0.25	11/28/22 15:54	GAS1 95-50-1	
1,2-Dichloroethane	<0.056	ppbv	0.36	0.056	11/28/22 15:54	GAS1 107-06-2	
1,2-Dichloropropane	<0.077	ppbv	0.36	0.077	11/28/22 15:54	GAS1 78-87-5	
1,3,5-Trimethylbenzene	0.34J	ppbv	0.36	0.098	11/28/22 15:54	GAS1 108-67-8	
1,3-Butadiene	<0.089	ppbv	0.36	0.089	11/28/22 15:54	GAS1 106-99-0	
1,3-Dichlorobenzene	<0.25	ppbv	0.9	0.25	11/28/22 15:54	GAS1 541-73-1	
1,4-Dichlorobenzene	<0.25	ppbv	0.9	0.25	11/28/22 15:54	GAS1 106-46-7	
2-Butanone (MEK)	4.9	ppbv	1.8	0.22	11/28/22 15:54	GAS1 78-93-3	
2-Hexanone	0.43J	ppbv	1.8	0.29	11/28/22 15:54	GAS1 591-78-6	
2-Propanol	5.2	ppbv	1.8	0.68	11/28/22 15:54	GAS1 67-63-0	
4-Ethyltoluene	0.34J	ppbv	0.9	0.15	11/28/22 15:54	GAS1 622-96-8	
4-Methyl-2-pentanone (MIBK)	0.53J	ppbv	1.8	0.23	11/28/22 15:54	GAS1 108-10-1	
Acetone	119	ppbv	4.5	1.7	11/28/22 15:54	GAS1 67-64-1	
Benzene	1.3	ppbv	0.18	0.062	11/28/22 15:54	GAS1 71-43-2	
Benzyl chloride	<0.27	ppbv	0.89	0.27	11/28/22 15:54	GAS1 100-44-7	
Bromodichloromethane	<0.084	ppbv	0.35	0.084	11/28/22 15:54	GAS1 75-27-4	
Bromoform	<0.13	ppbv	0.89	0.13	11/28/22 15:54	GAS1 75-25-2	
Bromomethane	<0.13	ppbv	0.35	0.13	11/28/22 15:54	GAS1 74-83-9	
Carbon disulfide	5.9	ppbv	0.35	0.13	11/28/22 15:54	GAS1 75-15-0	
Carbon tetrachloride	<0.12	ppbv	0.36	0.12	11/28/22 15:54	GAS1 56-23-5	
Chlorobenzene	<0.053	ppbv	0.36	0.053	11/28/22 15:54	GAS1 108-90-7	
Chloroethane	<0.14	ppbv	0.36	0.14	11/28/22 15:54	GAS1 75-00-3	
Chloroform	3.9	ppbv	0.18	0.048	11/28/22 15:54	GAS1 67-66-3	
Chloromethane	<0.076	ppbv	0.36	0.076	11/28/22 15:54	GAS1 74-87-3	
cis-1,2-Dichloroethene	0.47	ppbv	0.35	0.094	11/28/22 15:54	GAS1 156-59-2	
cis-1,3-Dichloropropene	<0.26	ppbv	0.89	0.26	11/28/22 15:54	GAS1 10061-01-5	
Cyclohexane	<0.069	ppbv	0.89	0.069	11/28/22 15:54	GAS1 110-82-7	
Dibromochloromethane	<0.074	ppbv	0.36	0.074	11/28/22 15:54	GAS1 124-48-1	
Dichlorodifluoromethane	24.7	ppbv	0.36	0.18	11/28/22 15:54	GAS1 75-71-8	

SUPPLEMENTAL REPORT

Units Conversion Request



ANALYTICAL RESULTS

Client: AECOM-Wisconsin
 Phone: 920-451-2640

Lab Project Number: 10634079
 Project Name: FV Steel and Wire Co.

Lab Sample No: 10634079001 ProjSampleNum: 10634079001 Date Collected: 11/15/22 14:02
 Client Sample ID: SS-1 Matrix: Air Date Received: 11/16/22 13:08

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Fnote
Air							
Dichlorotetrafluoroethane	<0.061	ppbv	0.35	0.061	11/28/22 15:54	GAS1 76-14-2	
Ethanol	31.6	ppbv	1.8	0.84	11/28/22 15:54	GAS1 64-17-5	
Ethyl acetate	<0.079	ppbv	0.35	0.079	11/28/22 15:54	GAS1 141-78-6	
Ethylbenzene	9.2	ppbv	0.36	0.072	11/28/22 15:54	GAS1 100-41-4	
Hexachloro-1,3-butadiene	<0.3	ppbv	0.89	0.3	11/28/22 15:54	GAS1 87-68-3	
m&p-Xylene	41	ppbv	0.72	0.2	11/28/22 15:54	GAS1 179601-23-	
Methylene Chloride	<0.062	ppbv	1.8	0.062	11/28/22 15:54	GAS1 75-09-2	
Methyl-tert-butyl ether	<0.12	ppbv	1.8	0.12	11/28/22 15:54	GAS1 1634-04-4	
Naphthalene	<0.69	ppbv	0.9	0.69	11/28/22 15:54	GAS1 91-20-3	
n-Heptane	2.2	ppbv	0.36	0.055	11/28/22 15:54	GAS1 142-82-5	
n-Hexane	2.7	ppbv	0.36	0.12	11/28/22 15:54	GAS1 110-54-3	
o-Xylene	14.4	ppbv	0.36	0.072	11/28/22 15:54	GAS1 95-47-6	
Propylene	<0.37	ppbv	0.91	0.37	11/28/22 15:54	GAS1 115-07-1	
Styrene	<0.17	ppbv	0.37	0.17	11/28/22 15:54	GAS1 100-42-5	
Tetrachloroethene	32.8	ppbv	0.17	0.064	11/28/22 15:54	GAS1 127-18-4	
Tetrahydrofuran	<0.11	ppbv	0.37	0.11	11/28/22 15:54	GAS1 109-99-9	
Toluene	5.6	ppbv	0.37	0.076	11/28/22 15:54	GAS1 108-88-3	
trans-1,2-Dichloroethene	<0.18	ppbv	0.35	0.18	11/28/22 15:54	GAS1 156-60-5	
trans-1,3-Dichloropropene	<0.3	ppbv	0.89	0.3	11/28/22 15:54	GAS1 10061-02-6	
Trichloroethene	1100	ppbv	85.9	37.5	11/29/22 14:47	GT 79-01-6	
Trichlorofluoromethane	0.28J	ppbv	0.35	0.063	11/28/22 15:54	GAS1 75-69-4	
Vinyl acetate	<0.089	ppbv	0.36	0.089	11/28/22 15:54	GAS1 108-05-4	
Vinyl chloride	<0.065	ppbv	0.18	0.065	11/28/22 15:54	GAS1 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



ANALYTICAL RESULTS

Client: AECOM-Wisconsin
 Phone: 920-451-2640

Lab Project Number: 10634079
 Project Name: FV Steel and Wire Co.

Lab Sample No: 10634079002 ProjSampleNum: 10634079002 Date Collected: 11/15/22 14:11
 Client Sample ID: SS-2 Matrix: Air Date Received: 11/16/22 13:08

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
1,1,1-Trichloroethane	498	ppbv	13.4	2.2	11/29/22 13:53	GT 71-55-6	
1,1,2,2-Tetrachloroethane	<0.073	ppbv	0.36	0.073	11/28/22 16:33	GAS1 79-34-5	
1,1,2-Trichloroethane	<0.083	ppbv	0.18	0.083	11/28/22 16:33	GAS1 79-00-5	
1,1,2-Trichlorotrifluoroethane	0.15J	ppbv	0.36	0.053	11/28/22 16:33	GAS1 76-13-1	
1,1-Dichloroethane	0.27J	ppbv	0.36	0.046	11/28/22 16:33	GAS1 75-34-3	
1,1-Dichloroethene	0.62	ppbv	0.35	0.072	11/28/22 16:33	GAS1 75-35-4	
1,2,4-Trichlorobenzene	<1.4	ppbv	1.8	1.4	11/28/22 16:33	GAS1 120-82-1	
1,2,4-Trimethylbenzene	0.98	ppbv	0.36	0.13	11/28/22 16:33	GAS1 95-63-6	
1,2-Dibromoethane (EDB)	<0.07	ppbv	0.18	0.07	11/28/22 16:33	GAS1 106-93-4	
1,2-Dichlorobenzene	<0.25	ppbv	0.9	0.25	11/28/22 16:33	GAS1 95-50-1	
1,2-Dichloroethane	<0.056	ppbv	0.36	0.056	11/28/22 16:33	GAS1 107-06-2	
1,2-Dichloropropane	<0.077	ppbv	0.36	0.077	11/28/22 16:33	GAS1 78-87-5	
1,3,5-Trimethylbenzene	0.4	ppbv	0.36	0.098	11/28/22 16:33	GAS1 108-67-8	
1,3-Butadiene	<0.089	ppbv	0.36	0.089	11/28/22 16:33	GAS1 106-99-0	
1,3-Dichlorobenzene	<0.25	ppbv	0.9	0.25	11/28/22 16:33	GAS1 541-73-1	
1,4-Dichlorobenzene	<0.25	ppbv	0.9	0.25	11/28/22 16:33	GAS1 106-46-7	
2-Butanone (MEK)	5.5	ppbv	1.8	0.22	11/28/22 16:33	GAS1 78-93-3	
2-Hexanone	0.65J	ppbv	1.8	0.29	11/28/22 16:33	GAS1 591-78-6	
2-Propanol	2.8	ppbv	1.8	0.68	11/28/22 16:33	GAS1 67-63-0	
4-Ethyltoluene	0.42J	ppbv	0.9	0.15	11/28/22 16:33	GAS1 622-96-8	
4-Methyl-2-pentanone (MIBK)	0.82J	ppbv	1.8	0.23	11/28/22 16:33	GAS1 108-10-1	
Acetone	101	ppbv	4.5	1.7	11/28/22 16:33	GAS1 67-64-1	
Benzene	1.7	ppbv	0.18	0.062	11/28/22 16:33	GAS1 71-43-2	
Benzyl chloride	<0.27	ppbv	0.89	0.27	11/28/22 16:33	GAS1 100-44-7	
Bromodichloromethane	<0.084	ppbv	0.35	0.084	11/28/22 16:33	GAS1 75-27-4	
Bromoform	<0.13	ppbv	0.89	0.13	11/28/22 16:33	GAS1 75-25-2	
Bromomethane	<0.13	ppbv	0.35	0.13	11/28/22 16:33	GAS1 74-83-9	
Carbon disulfide	0.51	ppbv	0.35	0.13	11/28/22 16:33	GAS1 75-15-0	
Carbon tetrachloride	<0.12	ppbv	0.36	0.12	11/28/22 16:33	GAS1 56-23-5	
Chlorobenzene	<0.053	ppbv	0.36	0.053	11/28/22 16:33	GAS1 108-90-7	
Chloroethane	<0.14	ppbv	0.36	0.14	11/28/22 16:33	GAS1 75-00-3	
Chloroform	1.2	ppbv	0.18	0.048	11/28/22 16:33	GAS1 67-66-3	
Chloromethane	<0.076	ppbv	0.36	0.076	11/28/22 16:33	GAS1 74-87-3	
cis-1,2-Dichloroethene	<0.094	ppbv	0.35	0.094	11/28/22 16:33	GAS1 156-59-2	
cis-1,3-Dichloropropene	<0.26	ppbv	0.89	0.26	11/28/22 16:33	GAS1 10061-01-5	
Cyclohexane	<0.069	ppbv	0.89	0.069	11/28/22 16:33	GAS1 110-82-7	
Dibromochloromethane	<0.074	ppbv	0.36	0.074	11/28/22 16:33	GAS1 124-48-1	
Dichlorodifluoromethane	12.3	ppbv	0.36	0.18	11/28/22 16:33	GAS1 75-71-8	

SUPPLEMENTAL REPORT

Units Conversion Request



ANALYTICAL RESULTS

Client: AECOM-Wisconsin
 Phone: 920-451-2640

Lab Project Number: 10634079
 Project Name: FV Steel and Wire Co.

Lab Sample No: 10634079002 ProjSampleNum: 10634079002 Date Collected: 11/15/22 14:11
 Client Sample ID: SS-2 Matrix: Air Date Received: 11/16/22 13:08

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Fnote
Air							
Dichlorotetrafluoroethane	<0.061	ppbv	0.35	0.061	11/28/22 16:33	GAS1 76-14-2	
Ethanol	68.9	ppbv	1.8	0.84	11/28/22 16:33	GAS1 64-17-5	
Ethyl acetate	<0.079	ppbv	0.35	0.079	11/28/22 16:33	GAS1 141-78-6	
Ethylbenzene	8.2	ppbv	0.36	0.072	11/28/22 16:33	GAS1 100-41-4	
Hexachloro-1,3-butadiene	<0.3	ppbv	0.89	0.3	11/28/22 16:33	GAS1 87-68-3	
m&p-Xylene	37.2	ppbv	0.72	0.2	11/28/22 16:33	GAS1 179601-23-	
Methylene Chloride	<0.062	ppbv	1.8	0.062	11/28/22 16:33	GAS1 75-09-2	
Methyl-tert-butyl ether	<0.12	ppbv	1.8	0.12	11/28/22 16:33	GAS1 1634-04-4	
Naphthalene	<0.69	ppbv	0.9	0.69	11/28/22 16:33	GAS1 91-20-3	
n-Heptane	2.3	ppbv	0.36	0.055	11/28/22 16:33	GAS1 142-82-5	
n-Hexane	2.3	ppbv	0.36	0.12	11/28/22 16:33	GAS1 110-54-3	
o-Xylene	12.1	ppbv	0.36	0.072	11/28/22 16:33	GAS1 95-47-6	
Propylene	<0.37	ppbv	0.91	0.37	11/28/22 16:33	GAS1 115-07-1	
Styrene	0.65	ppbv	0.37	0.17	11/28/22 16:33	GAS1 100-42-5	
Tetrachloroethene	18.7	ppbv	0.17	0.064	11/28/22 16:33	GAS1 127-18-4	
Tetrahydrofuran	<0.11	ppbv	0.37	0.11	11/28/22 16:33	GAS1 109-99-9	
Toluene	8.7	ppbv	0.37	0.076	11/28/22 16:33	GAS1 108-88-3	
trans-1,2-Dichloroethene	<0.18	ppbv	0.35	0.18	11/28/22 16:33	GAS1 156-60-5	
trans-1,3-Dichloropropene	<0.3	ppbv	0.89	0.3	11/28/22 16:33	GAS1 10061-02-6	
Trichloroethene	282	ppbv	6.7	2.9	11/29/22 13:53	GT 79-01-6	
Trichlorofluoromethane	0.28J	ppbv	0.35	0.063	11/28/22 16:33	GAS1 75-69-4	
Vinyl acetate	<0.089	ppbv	0.36	0.089	11/28/22 16:33	GAS1 108-05-4	
Vinyl chloride	<0.065	ppbv	0.18	0.065	11/28/22 16:33	GAS1 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



ANALYTICAL RESULTS

Client: AECOM-Wisconsin
 Phone: 920-451-2640

Lab Project Number: 10634079
 Project Name: FV Steel and Wire Co.

Lab Sample No: 10634079003 ProjSampleNum: 10634079003 Date Collected: 11/15/22 14:15
 Client Sample ID: SS-3 Matrix: Air Date Received: 11/16/22 13:08

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
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Air

TO-15

1,1,1-Trichloroethane	3880	ppbv	344	56.1	11/29/22 15:14	GT 71-55-6	
1,1,2,2-Tetrachloroethane	<0.073	ppbv	0.36	0.073	11/28/22 17:12	GAS1 79-34-5	
1,1,2-Trichloroethane	<0.083	ppbv	0.18	0.083	11/28/22 17:12	GAS1 79-00-5	
1,1,2-Trichlorotrifluoroethane	1	ppbv	0.36	0.053	11/28/22 17:12	GAS1 76-13-1	
1,1-Dichloroethane	4.6	ppbv	0.36	0.046	11/28/22 17:12	GAS1 75-34-3	
1,1-Dichloroethene	251J	ppbv	345	70	11/29/22 15:14	GT 75-35-4	
1,2,4-Trichlorobenzene	<1.4	ppbv	1.8	1.4	11/28/22 17:12	GAS1 120-82-1	
1,2,4-Trimethylbenzene	0.78	ppbv	0.36	0.13	11/28/22 17:12	GAS1 95-63-6	
1,2-Dibromoethane (EDB)	<0.07	ppbv	0.18	0.07	11/28/22 17:12	GAS1 106-93-4	
1,2-Dichlorobenzene	<0.25	ppbv	0.9	0.25	11/28/22 17:12	GAS1 95-50-1	
1,2-Dichloroethane	<0.056	ppbv	0.36	0.056	11/28/22 17:12	GAS1 107-06-2	
1,2-Dichloropropane	<0.077	ppbv	0.36	0.077	11/28/22 17:12	GAS1 78-87-5	
1,3,5-Trimethylbenzene	0.38	ppbv	0.36	0.098	11/28/22 17:12	GAS1 108-67-8	
1,3-Butadiene	<0.089	ppbv	0.36	0.089	11/28/22 17:12	GAS1 106-99-0	
1,3-Dichlorobenzene	<0.25	ppbv	0.9	0.25	11/28/22 17:12	GAS1 541-73-1	
1,4-Dichlorobenzene	<0.25	ppbv	0.9	0.25	11/28/22 17:12	GAS1 106-46-7	
2-Butanone (MEK)	2.6	ppbv	1.8	0.22	11/28/22 17:12	GAS1 78-93-3	
2-Hexanone	<0.29	ppbv	1.8	0.29	11/28/22 17:12	GAS1 591-78-6	
2-Propanol	3.9	ppbv	1.8	0.68	11/28/22 17:12	GAS1 67-63-0	
4-Ethyltoluene	0.4J	ppbv	0.9	0.15	11/28/22 17:12	GAS1 622-96-8	
4-Methyl-2-pentanone (MIBK)	0.43J	ppbv	1.8	0.23	11/28/22 17:12	GAS1 108-10-1	
Acetone	44.3	ppbv	4.5	1.7	11/28/22 17:12	GAS1 67-64-1	
Benzene	1.9	ppbv	0.18	0.062	11/28/22 17:12	GAS1 71-43-2	
Benzyl chloride	<0.27	ppbv	0.89	0.27	11/28/22 17:12	GAS1 100-44-7	
Bromodichloromethane	<0.084	ppbv	0.35	0.084	11/28/22 17:12	GAS1 75-27-4	
Bromoform	<0.13	ppbv	0.89	0.13	11/28/22 17:12	GAS1 75-25-2	
Bromomethane	<0.13	ppbv	0.35	0.13	11/28/22 17:12	GAS1 74-83-9	
Carbon disulfide	0.2J	ppbv	0.35	0.13	11/28/22 17:12	GAS1 75-15-0	
Carbon tetrachloride	<0.12	ppbv	0.36	0.12	11/28/22 17:12	GAS1 56-23-5	
Chlorobenzene	<0.053	ppbv	0.36	0.053	11/28/22 17:12	GAS1 108-90-7	
Chloroethane	<0.14	ppbv	0.36	0.14	11/28/22 17:12	GAS1 75-00-3	
Chloroform	0.56	ppbv	0.18	0.048	11/28/22 17:12	GAS1 67-66-3	
Chloromethane	<0.076	ppbv	0.36	0.076	11/28/22 17:12	GAS1 74-87-3	
cis-1,2-Dichloroethene	<0.094	ppbv	0.35	0.094	11/28/22 17:12	GAS1 156-59-2	
cis-1,3-Dichloropropene	<0.26	ppbv	0.89	0.26	11/28/22 17:12	GAS1 10061-01-5	
Cyclohexane	<0.069	ppbv	0.89	0.069	11/28/22 17:12	GAS1 110-82-7	
Dibromochloromethane	<0.074	ppbv	0.36	0.074	11/28/22 17:12	GAS1 124-48-1	
Dichlorodifluoromethane	11.3	ppbv	0.36	0.18	11/28/22 17:12	GAS1 75-71-8	

SUPPLEMENTAL REPORT

Units Conversion Request



ANALYTICAL RESULTS

Client: AECOM-Wisconsin
 Phone: 920-451-2640

Lab Project Number: 10634079
 Project Name: FV Steel and Wire Co.

Lab Sample No: 10634079003 ProjSampleNum: 10634079003 Date Collected: 11/15/22 14:15
 Client Sample ID: SS-3 Matrix: Air Date Received: 11/16/22 13:08

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
Dichlorotetrafluoroethane	<0.061	ppbv	0.35	0.061	11/28/22 17:12	GAS1 76-14-2	
Ethanol	41.5	ppbv	1.8	0.84	11/28/22 17:12	GAS1 64-17-5	
Ethyl acetate	<0.079	ppbv	0.35	0.079	11/28/22 17:12	GAS1 141-78-6	
Ethylbenzene	13	ppbv	0.36	0.072	11/28/22 17:12	GAS1 100-41-4	
Hexachloro-1,3-butadiene	<0.3	ppbv	0.89	0.3	11/28/22 17:12	GAS1 87-68-3	
m&p-Xylene	59.1	ppbv	0.72	0.2	11/28/22 17:12	GAS1 179601-23-	
Methylene Chloride	<0.062	ppbv	1.8	0.062	11/28/22 17:12	GAS1 75-09-2	
Methyl-tert-butyl ether	<0.12	ppbv	1.8	0.12	11/28/22 17:12	GAS1 1634-04-4	
Naphthalene	<0.69	ppbv	0.9	0.69	11/28/22 17:12	GAS1 91-20-3	
n-Heptane	2	ppbv	0.36	0.055	11/28/22 17:12	GAS1 142-82-5	
n-Hexane	2.6	ppbv	0.36	0.12	11/28/22 17:12	GAS1 110-54-3	
o-Xylene	19.3	ppbv	0.36	0.072	11/28/22 17:12	GAS1 95-47-6	
Propylene	<0.37	ppbv	0.91	0.37	11/28/22 17:12	GAS1 115-07-1	
Styrene	<0.17	ppbv	0.37	0.17	11/28/22 17:12	GAS1 100-42-5	
Tetrachloroethene	187	ppbv	171	61.8	11/29/22 15:14	GT 127-18-4	
Tetrahydrofuran	<0.11	ppbv	0.37	0.11	11/28/22 17:12	GAS1 109-99-9	
Toluene	8.5	ppbv	0.37	0.076	11/28/22 17:12	GAS1 108-88-3	
trans-1,2-Dichloroethene	<0.18	ppbv	0.35	0.18	11/28/22 17:12	GAS1 156-60-5	
trans-1,3-Dichloropropene	<0.3	ppbv	0.89	0.3	11/28/22 17:12	GAS1 10061-02-6	
Trichloroethene	304	ppbv	172	75.2	11/29/22 15:14	GT 79-01-6	
Trichlorofluoromethane	0.3J	ppbv	0.35	0.063	11/28/22 17:12	GAS1 75-69-4	
Vinyl acetate	<0.089	ppbv	0.36	0.089	11/28/22 17:12	GAS1 108-05-4	
Vinyl chloride	<0.065	ppbv	0.18	0.065	11/28/22 17:12	GAS1 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



ANALYTICAL RESULTS

Client: AECOM-Wisconsin
 Phone: 920-451-2640

Lab Project Number: 10634079
 Project Name: FV Steel and Wire Co.

Lab Sample No: 10634079004 ProjSampleNum: 10634079004 Date Collected: 11/15/22 13:54
 Client Sample ID: SS-4 Matrix: Air Date Received: 11/16/22 13:08

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
1,1,1-Trichloroethane	460	ppbv	310	50.5	11/29/22 15:41	GT 71-55-6	
1,1,2,2-Tetrachloroethane	<0.066	ppbv	0.33	0.066	11/28/22 17:51	GAS1 79-34-5	
1,1,2-Trichloroethane	<0.076	ppbv	0.16	0.076	11/28/22 17:51	GAS1 79-00-5	
1,1,2-Trichlorotrifluoroethane	0.11J	ppbv	0.32	0.047	11/28/22 17:51	GAS1 76-13-1	
1,1-Dichloroethane	1.8	ppbv	0.32	0.041	11/28/22 17:51	GAS1 75-34-3	
1,1-Dichloroethene	0.4	ppbv	0.32	0.065	11/28/22 17:51	GAS1 75-35-4	C8
1,2,4-Trichlorobenzene	<1.2	ppbv	1.6	1.2	11/28/22 17:51	GAS1 120-82-1	
1,2,4-Trimethylbenzene	0.78	ppbv	0.32	0.11	11/28/22 17:51	GAS1 95-63-6	
1,2-Dibromoethane (EDB)	<0.064	ppbv	0.17	0.064	11/28/22 17:51	GAS1 106-93-4	
1,2-Dichlorobenzene	<0.23	ppbv	0.8	0.23	11/28/22 17:51	GAS1 95-50-1	
1,2-Dichloroethane	<0.049	ppbv	0.32	0.049	11/28/22 17:51	GAS1 107-06-2	
1,2-Dichloropropane	<0.068	ppbv	0.32	0.068	11/28/22 17:51	GAS1 78-87-5	
1,3,5-Trimethylbenzene	0.3J	ppbv	0.32	0.088	11/28/22 17:51	GAS1 108-67-8	
1,3-Butadiene	<0.08	ppbv	0.32	0.08	11/28/22 17:51	GAS1 106-99-0	
1,3-Dichlorobenzene	<0.21	ppbv	0.8	0.21	11/28/22 17:51	GAS1 541-73-1	
1,4-Dichlorobenzene	<0.21	ppbv	0.8	0.21	11/28/22 17:51	GAS1 106-46-7	
2-Butanone (MEK)	5.2	ppbv	1.6	0.2	11/28/22 17:51	GAS1 78-93-3	
2-Hexanone	0.53J	ppbv	1.6	0.26	11/28/22 17:51	GAS1 591-78-6	
2-Propanol	5.4	ppbv	1.6	0.6	11/28/22 17:51	GAS1 67-63-0	
4-Ethyltoluene	0.42J	ppbv	0.8	0.13	11/28/22 17:51	GAS1 622-96-8	
4-Methyl-2-pentanone (MIBK)	0.7J	ppbv	1.6	0.21	11/28/22 17:51	GAS1 108-10-1	
Acetone	119	ppbv	4	1.5	11/28/22 17:51	GAS1 67-64-1	
Benzene	1.4	ppbv	0.16	0.055	11/28/22 17:51	GAS1 71-43-2	
Benzyl chloride	<0.23	ppbv	0.8	0.23	11/28/22 17:51	GAS1 100-44-7	
Bromodichloromethane	<0.076	ppbv	0.32	0.076	11/28/22 17:51	GAS1 75-27-4	
Bromoform	<0.12	ppbv	0.81	0.12	11/28/22 17:51	GAS1 75-25-2	
Bromomethane	<0.12	ppbv	0.33	0.12	11/28/22 17:51	GAS1 74-83-9	
Carbon disulfide	0.26J	ppbv	0.32	0.12	11/28/22 17:51	GAS1 75-15-0	
Carbon tetrachloride	<0.1	ppbv	0.33	0.1	11/28/22 17:51	GAS1 56-23-5	
Chlorobenzene	<0.047	ppbv	0.32	0.047	11/28/22 17:51	GAS1 108-90-7	
Chloroethane	<0.12	ppbv	0.32	0.12	11/28/22 17:51	GAS1 75-00-3	
Chloroform	14.9	ppbv	0.16	0.044	11/28/22 17:51	GAS1 67-66-3	
Chloromethane	<0.067	ppbv	0.32	0.067	11/28/22 17:51	GAS1 74-87-3	
cis-1,2-Dichloroethene	0.65	ppbv	0.32	0.084	11/28/22 17:51	GAS1 156-59-2	
cis-1,3-Dichloropropene	<0.24	ppbv	0.8	0.24	11/28/22 17:51	GAS1 10061-01-5	
Cyclohexane	<0.063	ppbv	0.8	0.063	11/28/22 17:51	GAS1 110-82-7	
Dibromochloromethane	<0.067	ppbv	0.32	0.067	11/28/22 17:51	GAS1 124-48-1	
Dichlorodifluoromethane	<158	ppbv	310	158	11/29/22 15:41	GT 75-71-8	

SUPPLEMENTAL REPORT

Units Conversion Request



ANALYTICAL RESULTS

Client: AECOM-Wisconsin
 Phone: 920-451-2640

Lab Project Number: 10634079
 Project Name: FV Steel and Wire Co.

Lab Sample No: 10634079004 ProjSampleNum: 10634079004 Date Collected: 11/15/22 13:54
 Client Sample ID: SS-4 Matrix: Air Date Received: 11/16/22 13:08

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
Dichlorotetrafluoroethane	<0.055	ppbv	0.32	0.055	11/28/22 17:51	GAS1 76-14-2	
Ethanol	39	ppbv	1.6	0.78	11/28/22 17:51	GAS1 64-17-5	
Ethyl acetate	<0.071	ppbv	0.33	0.071	11/28/22 17:51	GAS1 141-78-6	
Ethylbenzene	11.4	ppbv	0.32	0.066	11/28/22 17:51	GAS1 100-41-4	
Hexachloro-1,3-butadiene	<0.26	ppbv	0.8	0.26	11/28/22 17:51	GAS1 87-68-3	
m&p-Xylene	45.1	ppbv	0.63	0.18	11/28/22 17:51	GAS1 179601-23-	
Methylene Chloride	<0.057	ppbv	1.6	0.057	11/28/22 17:51	GAS1 75-09-2	
Methyl-tert-butyl ether	<0.11	ppbv	1.6	0.11	11/28/22 17:51	GAS1 1634-04-4	
Naphthalene	<0.64	ppbv	0.81	0.64	11/28/22 17:51	GAS1 91-20-3	
n-Heptane	<0.05	ppbv	0.31	0.05	11/28/22 17:51	GAS1 142-82-5	
n-Hexane	1.6	ppbv	0.33	0.1	11/28/22 17:51	GAS1 110-54-3	
o-Xylene	14.7	ppbv	0.32	0.066	11/28/22 17:51	GAS1 95-47-6	
Propylene	9.3	ppbv	0.8	0.33	11/28/22 17:51	GAS1 115-07-1	
Styrene	<0.15	ppbv	0.32	0.15	11/28/22 17:51	GAS1 100-42-5	
Tetrachloroethene	23.5	ppbv	0.16	0.058	11/28/22 17:51	GAS1 127-18-4	
Tetrahydrofuran	<0.1	ppbv	0.32	0.1	11/28/22 17:51	GAS1 109-99-9	
Toluene	4.9	ppbv	0.31	0.068	11/28/22 17:51	GAS1 108-88-3	
trans-1,2-Dichloroethene	0.3J	ppbv	0.32	0.17	11/28/22 17:51	GAS1 156-60-5	
trans-1,3-Dichloropropene	<0.28	ppbv	0.8	0.28	11/28/22 17:51	GAS1 10061-02-6	
Trichloroethene	1370	ppbv	155	67.6	11/29/22 15:41	GT 79-01-6	
Trichlorofluoromethane	0.3J	ppbv	0.32	0.058	11/28/22 17:51	GAS1 75-69-4	
Vinyl acetate	<0.078	ppbv	0.34	0.078	11/28/22 17:51	GAS1 108-05-4	
Vinyl chloride	<0.058	ppbv	0.16	0.058	11/28/22 17:51	GAS1 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



ANALYTICAL RESULTS

Client: AECOM-Wisconsin
 Phone: 920-451-2640

Lab Project Number: 10634079
 Project Name: FV Steel and Wire Co.

Lab Sample No: 10634079005 ProjSampleNum: 10634079005 Date Collected: 11/15/22 13:50
 Client Sample ID: SS-5 Matrix: Air Date Received: 11/16/22 13:08

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
1,1,1-Trichloroethane	651	ppbv	292	47.6	11/29/22 16:08	GT 71-55-6	
1,1,2,2-Tetrachloroethane	<0.079	ppbv	0.39	0.079	11/29/22 5:31	GAS1 79-34-5	
1,1,2-Trichloroethane	<0.088	ppbv	0.2	0.088	11/29/22 5:31	GAS1 79-00-5	
1,1,2-Trichlorotrifluoroethane	0.22J	ppbv	0.39	0.055	11/29/22 5:31	GAS1 76-13-1	
1,1-Dichloroethane	1.2	ppbv	0.39	0.049	11/29/22 5:31	GAS1 75-34-3	
1,1-Dichloroethene	3	ppbv	0.37	0.077	11/29/22 5:31	GAS1 75-35-4	
1,2,4-Trichlorobenzene	<1.4	ppbv	1.9	1.4	11/29/22 5:31	GAS1 120-82-1	
1,2,4-Trimethylbenzene	0.52	ppbv	0.38	0.13	11/29/22 5:31	GAS1 95-63-6	
1,2-Dibromoethane (EDB)	<0.076	ppbv	0.19	0.076	11/29/22 5:31	GAS1 106-93-4	
1,2-Dichlorobenzene	<0.26	ppbv	0.95	0.26	11/29/22 5:31	GAS1 95-50-1	
1,2-Dichloroethane	<0.058	ppbv	0.39	0.058	11/29/22 5:31	GAS1 107-06-2	
1,2-Dichloropropane	<0.081	ppbv	0.38	0.081	11/29/22 5:31	GAS1 78-87-5	
1,3,5-Trimethylbenzene	0.28J	ppbv	0.38	0.1	11/29/22 5:31	GAS1 108-67-8	
1,3-Butadiene	<0.093	ppbv	0.38	0.093	11/29/22 5:31	GAS1 106-99-0	
1,3-Dichlorobenzene	<0.26	ppbv	0.95	0.26	11/29/22 5:31	GAS1 541-73-1	
1,4-Dichlorobenzene	<0.25	ppbv	0.95	0.25	11/29/22 5:31	GAS1 106-46-7	
2-Butanone (MEK)	10.6	ppbv	1.9	0.24	11/29/22 5:31	GAS1 78-93-3	
2-Hexanone	<0.31	ppbv	1.9	0.31	11/29/22 5:31	GAS1 591-78-6	
2-Propanol	7.2	ppbv	1.9	0.72	11/29/22 5:31	GAS1 67-63-0	
4-Ethyltoluene	0.26J	ppbv	0.96	0.15	11/29/22 5:31	GAS1 622-96-8	
4-Methyl-2-pentanone (MIBK)	0.65J	ppbv	1.9	0.24	11/29/22 5:31	GAS1 108-10-1	
Acetone	112	ppbv	4.8	1.7	11/29/22 5:31	GAS1 67-64-1	
Benzene	1.5	ppbv	0.19	0.065	11/29/22 5:31	GAS1 71-43-2	
Benzyl chloride	<0.29	ppbv	0.95	0.29	11/29/22 5:31	GAS1 100-44-7	
Bromodichloromethane	<0.09	ppbv	0.38	0.09	11/29/22 5:31	GAS1 75-27-4	
Bromoform	<0.14	ppbv	0.95	0.14	11/29/22 5:31	GAS1 75-25-2	
Bromomethane	<0.14	ppbv	0.38	0.14	11/29/22 5:31	GAS1 74-83-9	
Carbon disulfide	4.6	ppbv	0.38	0.14	11/29/22 5:31	GAS1 75-15-0	
Carbon tetrachloride	<0.13	ppbv	0.38	0.13	11/29/22 5:31	GAS1 56-23-5	
Chlorobenzene	<0.056	ppbv	0.38	0.056	11/29/22 5:31	GAS1 108-90-7	
Chloroethane	<0.15	ppbv	0.37	0.15	11/29/22 5:31	GAS1 75-00-3	
Chloroform	2.4	ppbv	0.19	0.05	11/29/22 5:31	GAS1 67-66-3	
Chloromethane	0.36J	ppbv	0.38	0.081	11/29/22 5:31	GAS1 74-87-3	
cis-1,2-Dichloroethene	0.3J	ppbv	0.37	0.1	11/29/22 5:31	GAS1 156-59-2	
cis-1,3-Dichloropropene	<0.26	ppbv	0.95	0.26	11/29/22 5:31	GAS1 10061-01-5	
Cyclohexane	<0.071	ppbv	0.94	0.071	11/29/22 5:31	GAS1 110-82-7	
Dibromochloromethane	<0.079	ppbv	0.38	0.079	11/29/22 5:31	GAS1 124-48-1	
Dichlorodifluoromethane	<149	ppbv	292	149	11/29/22 16:08	GT 75-71-8	

SUPPLEMENTAL REPORT

Units Conversion Request



ANALYTICAL RESULTS

Client: AECOM-Wisconsin
 Phone: 920-451-2640

Lab Project Number: 10634079
 Project Name: FV Steel and Wire Co.

Lab Sample No: 10634079005 ProjSampleNum: 10634079005 Date Collected: 11/15/22 13:50
 Client Sample ID: SS-5 Matrix: Air Date Received: 11/16/22 13:08

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
Dichlorotetrafluoroethane	<0.065	ppbv	0.38	0.065	11/29/22 5:31	GAS1 76-14-2	
Ethanol	47.1	ppbv	1.9	0.89	11/29/22 5:31	GAS1 64-17-5	
Ethyl acetate	<0.082	ppbv	0.38	0.082	11/29/22 5:31	GAS1 141-78-6	
Ethylbenzene	9	ppbv	0.39	0.077	11/29/22 5:31	GAS1 100-41-4	
Hexachloro-1,3-butadiene	<0.3	ppbv	0.95	0.3	11/29/22 5:31	GAS1 87-68-3	
m&p-Xylene	42.6	ppbv	0.77	0.21	11/29/22 5:31	GAS1 179601-23-	
Methylene Chloride	<0.068	ppbv	1.9	0.068	11/29/22 5:31	GAS1 75-09-2	
Methyl-tert-butyl ether	<0.13	ppbv	1.9	0.13	11/29/22 5:31	GAS1 1634-04-4	
Naphthalene	<0.75	ppbv	0.96	0.75	11/29/22 5:31	GAS1 91-20-3	
n-Heptane	1.2	ppbv	0.38	0.06	11/29/22 5:31	GAS1 142-82-5	
n-Hexane	2	ppbv	0.39	0.12	11/29/22 5:31	GAS1 110-54-3	
o-Xylene	13.3	ppbv	0.39	0.077	11/29/22 5:31	GAS1 95-47-6	
Propylene	<0.39	ppbv	0.97	0.39	11/29/22 5:31	GAS1 115-07-1	
Styrene	<0.18	ppbv	0.37	0.18	11/29/22 5:31	GAS1 100-42-5	
Tetrachloroethene	23.5	ppbv	0.19	0.068	11/29/22 5:31	GAS1 127-18-4	
Tetrahydrofuran	<0.12	ppbv	0.37	0.12	11/29/22 5:31	GAS1 109-99-9	
Toluene	5.1	ppbv	0.39	0.081	11/29/22 5:31	GAS1 108-88-3	
trans-1,2-Dichloroethene	<0.2	ppbv	0.37	0.2	11/29/22 5:31	GAS1 156-60-5	
trans-1,3-Dichloropropene	<0.33	ppbv	0.95	0.33	11/29/22 5:31	GAS1 10061-02-6	
Trichloroethene	1460	ppbv	146	63.9	11/29/22 16:08	GT 79-01-6	
Trichlorofluoromethane	0.39	ppbv	0.39	0.067	11/29/22 5:31	GAS1 75-69-4	
Vinyl acetate	<0.092	ppbv	0.39	0.092	11/29/22 5:31	GAS1 108-05-4	
Vinyl chloride	<0.069	ppbv	0.19	0.069	11/29/22 5:31	GAS1 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



ANALYTICAL RESULTS

Client: AECOM-Wisconsin
 Phone: 920-451-2640

Lab Project Number: 10634079
 Project Name: FV Steel and Wire Co.

Lab Sample No: 10634079006 ProjSampleNum: 10634079006 Date Collected: 11/15/22 14:19
 Client Sample ID: SS-6 Matrix: Air Date Received: 11/16/22 13:08

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
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Air

TO-15

1,1,1-Trichloroethane	386	ppbv	7.4	1.2	11/29/22 13:26	GT 71-55-6	
1,1,2,2-Tetrachloroethane	<0.3	ppbv	1.5	0.3	11/28/22 19:13	GAS1 79-34-5	
1,1,2-Trichloroethane	<0.34	ppbv	0.74	0.34	11/28/22 19:13	GAS1 79-00-5	
1,1,2-Trichlorotrifluoroethane	0.4J	ppbv	1.5	0.22	11/28/22 19:13	GAS1 76-13-1	
1,1-Dichloroethane	<0.19	ppbv	1.5	0.19	11/28/22 19:13	GAS1 75-34-3	
1,1-Dichloroethene	10.8	ppbv	1.5	0.3	11/28/22 19:13	GAS1 75-35-4	
1,2,4-Trichlorobenzene	<5.6	ppbv	7.4	5.6	11/28/22 19:13	GAS1 120-82-1	
1,2,4-Trimethylbenzene	1.9	ppbv	1.5	0.52	11/28/22 19:13	GAS1 95-63-6	
1,2-Dibromoethane (EDB)	<0.29	ppbv	0.74	0.29	11/28/22 19:13	GAS1 106-93-4	
1,2-Dichlorobenzene	<1	ppbv	3.7	1	11/28/22 19:13	GAS1 95-50-1	
1,2-Dichloroethane	<0.23	ppbv	1.5	0.23	11/28/22 19:13	GAS1 107-06-2	
1,2-Dichloropropane	<0.32	ppbv	1.5	0.32	11/28/22 19:13	GAS1 78-87-5	
1,3,5-Trimethylbenzene	0.86J	ppbv	1.5	0.4	11/28/22 19:13	GAS1 108-67-8	
1,3-Butadiene	<0.36	ppbv	1.5	0.36	11/28/22 19:13	GAS1 106-99-0	
1,3-Dichlorobenzene	<1	ppbv	3.7	1	11/28/22 19:13	GAS1 541-73-1	
1,4-Dichlorobenzene	<0.98	ppbv	3.7	0.98	11/28/22 19:13	GAS1 106-46-7	
2-Butanone (MEK)	7.4J	ppbv	7.4	0.93	11/28/22 19:13	GAS1 78-93-3	
2-Hexanone	<1.2	ppbv	7.4	1.2	11/28/22 19:13	GAS1 591-78-6	
2-Propanol	15.1	ppbv	7.4	2.8	11/28/22 19:13	GAS1 67-63-0	
4-Ethyltoluene	<0.6	ppbv	3.7	0.6	11/28/22 19:13	GAS1 622-96-8	
4-Methyl-2-pentanone (MIBK)	1.7J	ppbv	7.4	0.96	11/28/22 19:13	GAS1 108-10-1	
Acetone	125	ppbv	18.5	6.8	11/28/22 19:13	GAS1 67-64-1	
Benzene	5.4	ppbv	0.74	0.25	11/28/22 19:13	GAS1 71-43-2	
Benzyl chloride	<1.1	ppbv	3.7	1.1	11/28/22 19:13	GAS1 100-44-7	
Bromodichloromethane	<0.35	ppbv	1.5	0.35	11/28/22 19:13	GAS1 75-27-4	
Bromoform	<0.54	ppbv	3.7	0.54	11/28/22 19:13	GAS1 75-25-2	
Bromomethane	<0.56	ppbv	1.5	0.56	11/28/22 19:13	GAS1 74-83-9	
Carbon disulfide	1.8	ppbv	1.5	0.54	11/28/22 19:13	GAS1 75-15-0	
Carbon tetrachloride	<0.48	ppbv	1.5	0.48	11/28/22 19:13	GAS1 56-23-5	
Chlorobenzene	<0.21	ppbv	1.5	0.21	11/28/22 19:13	GAS1 108-90-7	
Chloroethane	<0.56	ppbv	1.5	0.56	11/28/22 19:13	GAS1 75-00-3	
Chloroform	<0.2	ppbv	0.75	0.2	11/28/22 19:13	GAS1 67-66-3	
Chloromethane	<0.31	ppbv	1.5	0.31	11/28/22 19:13	GAS1 74-87-3	
cis-1,2-Dichloroethene	<0.4	ppbv	1.5	0.4	11/28/22 19:13	GAS1 156-59-2	
cis-1,3-Dichloropropene	<1	ppbv	3.7	1	11/28/22 19:13	GAS1 10061-01-5	
Cyclohexane	18.1	ppbv	3.7	0.28	11/28/22 19:13	GAS1 110-82-7	
Dibromochloromethane	<0.31	ppbv	1.5	0.31	11/28/22 19:13	GAS1 124-48-1	
Dichlorodifluoromethane	52.7	ppbv	1.5	0.76	11/28/22 19:13	GAS1 75-71-8	

SUPPLEMENTAL REPORT

Units Conversion Request



ANALYTICAL RESULTS

Client: AECOM-Wisconsin
 Phone: 920-451-2640

Lab Project Number: 10634079
 Project Name: FV Steel and Wire Co.

Lab Sample No: 10634079006 ProjSampleNum: 10634079006 Date Collected: 11/15/22 14:19
 Client Sample ID: SS-6 Matrix: Air Date Received: 11/16/22 13:08

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
Dichlorotetrafluoroethane	<0.25	ppbv	1.5	0.25	11/28/22 19:13	GAS1 76-14-2	
Ethanol	176	ppbv	7.4	3.5	11/28/22 19:13	GAS1 64-17-5	
Ethyl acetate	<0.33	ppbv	1.5	0.33	11/28/22 19:13	GAS1 141-78-6	
Ethylbenzene	30.6	ppbv	1.5	0.29	11/28/22 19:13	GAS1 100-41-4	
Hexachloro-1,3-butadiene	<1.2	ppbv	3.7	1.2	11/28/22 19:13	GAS1 87-68-3	
m&p-Xylene	129	ppbv	3	0.82	11/28/22 19:13	GAS1 179601-23-	
Methylene Chloride	<0.26	ppbv	7.4	0.26	11/28/22 19:13	GAS1 75-09-2	
Methyl-tert-butyl ether	<0.49	ppbv	7.4	0.49	11/28/22 19:13	GAS1 1634-04-4	
Naphthalene	<2.9	ppbv	3.7	2.9	11/28/22 19:13	GAS1 91-20-3	
n-Heptane	6.6	ppbv	1.5	0.23	11/28/22 19:13	GAS1 142-82-5	
n-Hexane	7.5	ppbv	1.5	0.47	11/28/22 19:13	GAS1 110-54-3	
o-Xylene	38.5	ppbv	1.5	0.29	11/28/22 19:13	GAS1 95-47-6	
Propylene	<1.5	ppbv	3.7	1.5	11/28/22 19:13	GAS1 115-07-1	
Styrene	<0.72	ppbv	1.5	0.72	11/28/22 19:13	GAS1 100-42-5	
Tetrachloroethene	17.1	ppbv	0.74	0.26	11/28/22 19:13	GAS1 127-18-4	
Tetrahydrofuran	<0.47	ppbv	1.5	0.47	11/28/22 19:13	GAS1 109-99-9	
Toluene	27.1	ppbv	1.5	0.31	11/28/22 19:13	GAS1 108-88-3	
trans-1,2-Dichloroethene	<0.77	ppbv	1.5	0.77	11/28/22 19:13	GAS1 156-60-5	
trans-1,3-Dichloropropene	<1.2	ppbv	3.7	1.2	11/28/22 19:13	GAS1 10061-02-6	
Trichloroethene	20.7	ppbv	0.73	0.33	11/28/22 19:13	GAS1 79-01-6	
Trichlorofluoromethane	0.46J	ppbv	1.5	0.26	11/28/22 19:13	GAS1 75-69-4	
Vinyl acetate	<0.36	ppbv	1.5	0.36	11/28/22 19:13	GAS1 108-05-4	
Vinyl chloride	<0.27	ppbv	0.73	0.27	11/28/22 19:13	GAS1 75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: AECOM-Wisconsin
Phone: 920-451-2640

Lab Project Number: 10634079
Project Name: FV Steel and Wire Co.

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

[C8] Result may be biased high due to carryover from previously analyzed sample.

SUPPLEMENTAL REPORT

Units Conversion Request

Date: 12/2/2022

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