

**From:** Braun, Gary <Gary.Braun@aecom.com>  
**Sent:** Thursday, March 16, 2023 9:05 PM  
**To:** Keller, Ethan J - DNR; info@kinsmanandcompany.com;  
natelenz@gmail.com  
**Cc:** Chronert, Roxanne N - DNR; Chad Erdmann  
(Chad.Erdmann@libertysteel.us); 'Howard.Law@gfgalliance.com';  
Henderson, David; Schacht, Garret  
**Subject:** Former FV Steel & Wire Company Site at 111 N. Douglas St. Hortonville,  
WI (WDNR BRRTS#: 02-45-560221)  
**Attachments:** Sample Location Field Map\_2022.02.16-02.17.pdf; FV Steel\_VI Summary  
Table\_Feb2023-INDOOR AIR.pdf; FV Steel\_VI Summary  
Table\_Feb2023.pdf; 10643658\_frc.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

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safe.**

Good Evening -

Attached are the February 2023 indoor air and sub-slab vapor monitoring results, along with a sample location map for the above referenced site. Three indoor air samples were collected in Building E (IA-1), Building D-West (IA-2), and Building D-East (IA-3) in accordance with the sampling plan summarized in my January 31, 2023 email. As summarized on the attached table, two of the target analyte constituents were detected at concentrations above reporting limits. Tetrachloroethene (PCE) and Trichloroethene (TCE) were detected at each of the three indoor air monitoring locations. The highest concentrations of PCE was 2.6 ug/m3 (i.e., parts per billion) at IA-1 and 2.1 ug/m3 for TCE at IA-2. Both of these concentrations were found to be less than their respective Vapor Action Levels (VAL) for indoor air concentrations of PCE (VAL of 180 ug/m3) and TCE (VAL of 8.8 ug/m3) as listed in DNR Publication RR-0136. Therefore, no immediate actions are deemed necessary to address indoor air quality. Rather, an indoor air and sub-slab sampling event will continue in June 2023 as planned in the work plan (approved on January 26, 2022) and summarized below.

The sub-slab sampling results conducted in Feb. 2023 were similar to the Nov. 2022 results. TCE was found to exceed the Vapor Risk Screening Level (VRSL) at the same five sample locations of the initial six sampling points conducted in Nov. 2022. In addition, VRSL exceedances for TCE were also observed at two new monitoring points (SS-7 and SS-11). Some variations were observed in concentration between the Nov. 2022 and Feb. 2023 sampling events, which would be expected with frozen ground surrounding the building, but the TCE VRSL exceedances appear to be delineated in both Buildings D and E considering TCE concentrations were below its VRSL at SS-6, SS-8, SS-9, SS-10, and SS-12. Expansion of the current sub-slab monitoring program does not appear to be necessary. Note that the sub-slab results are indicated to be preliminary, since there are several constituents not reported for SS-12. The lab has been contacted to report the missing constituents in SS-12.

Proposed VI Sampling Plan for June 2023 includes:

- Three indoor air samples from Building D – West, Building D – East, and Building E. Each short-term indoor air sample will consist of the collection of a 6-liter summa canister with an 8-hour regulator in the breathing zone height, away from windows and doors, and at locations where they will not be disturbed. HVAC systems will continue to operate as normal, and the operating conditions will be documented and reported as part of the sampling procedure.
- The 12 existing sub-slab monitoring points in Building D and E will be used (if re-located) to delineate seasonal sub-slab vapor concentrations and assist in evaluating the horizontal extent of impacts.
- Results of the indoor air sampling will be forwarded to DNR within 48-hours of receipt.

Please do not hesitate to contact me with any questions.

Regards,

Gary

**Gary Braun, P.G.**

Project Manager/Senior Hydrogeologist

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M +1-414-526-6224

[Gary.Braun@aecom.com](mailto:Gary.Braun@aecom.com)

**AECOM**

1555 N. RiverCenter Drive, Suite 214

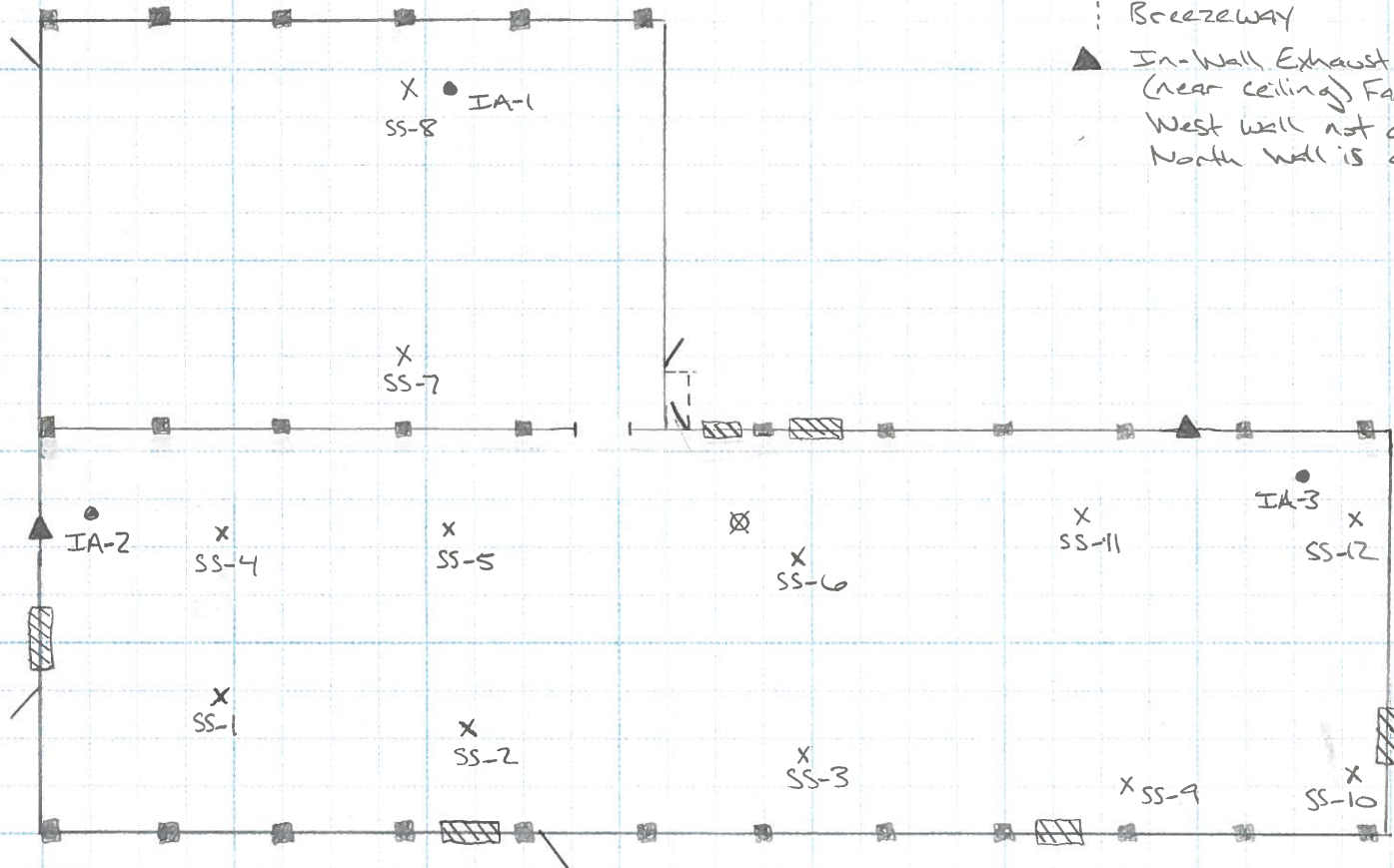
Milwaukee, WI 53212, USA

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**Legend/Notes**

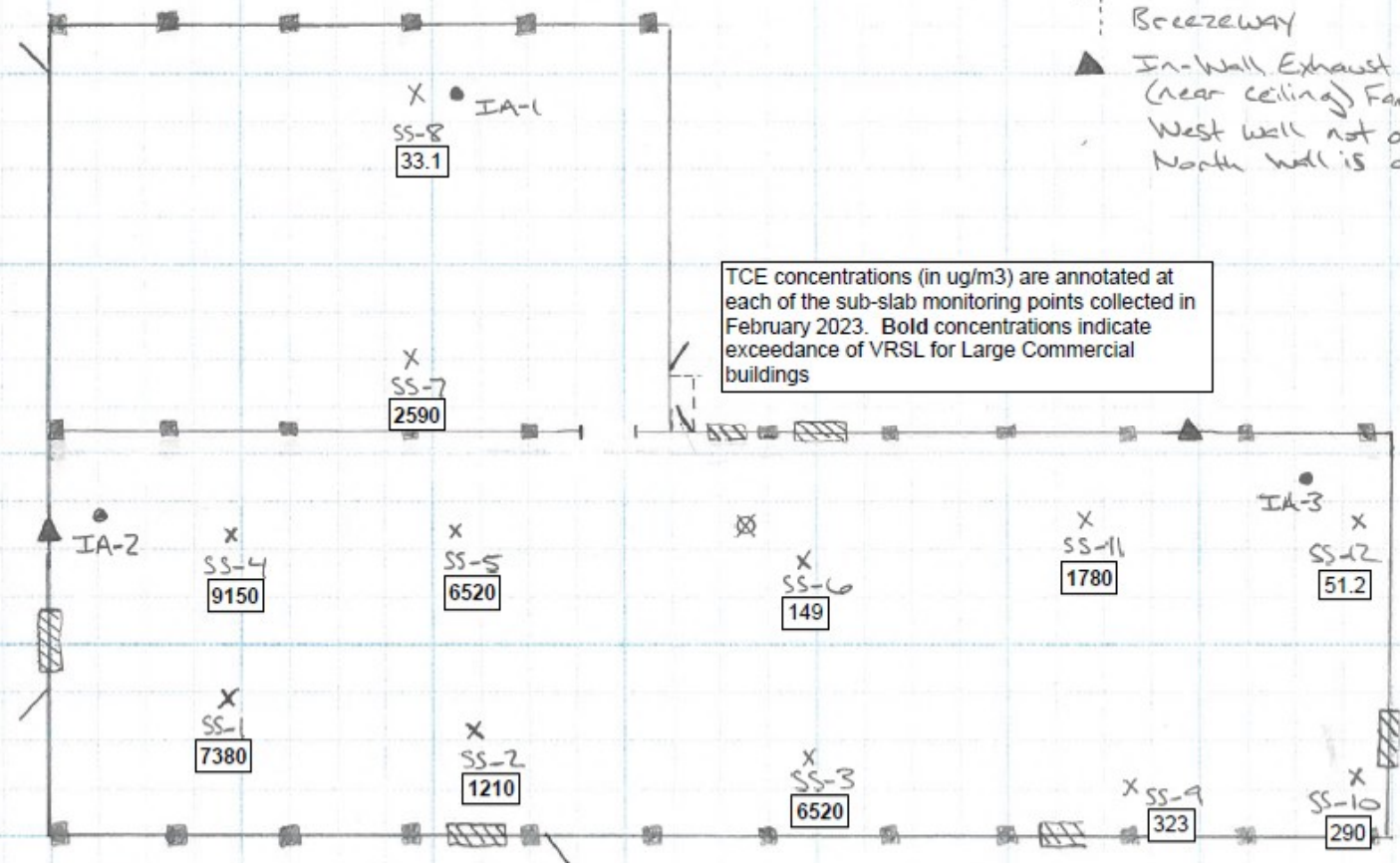
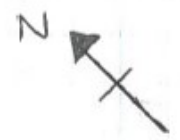
- x Sub Slap Point
- Indoor Air Sample
- ▨ Garage Door
- ⊗ Manhole
- Structural Pier
- - - Breezeway
- ▲ In-Wall Exhaust Fan (near ceiling) Fan on West wall not operating, North wall is operating



Building D West and Warehouse Building E are separated with a sliding wooden door. During sampling on 2-16-23/2-17-23, the door was open.

JOB TITLE EV Steel and Wire Company  
 PROJECT/JOB NO. 60427891 CALCULATION NO. \_\_\_\_\_  
 COMPUTED BY Garret Shedd DATE 2-16-2023  
 VERIFIED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SCALE 1 inch = 40 feet SHEET NO. 1 OF 1

- Legend/Notes**
- x Sub Slab Point
  - Indoor Air Sample
  - ▨ Garage Door
  - ⊗ Manhole
  - Structural Pier
  - - - Breezeway
  - ▲ In-Wall Exhaust Fan (near ceiling) Fan on West wall not operating, North wall is operating



Building D West and Warehouse Building E are separated with a sliding wooden door. During sampling on 2-16-23/2-17-23, the door was open.

4x4 = 1 in

## Indoor Air Concentrations of Target Analyte Constituents

(Feb. 2023)

Former FV Steel and Wire Co

Hortonville, Wisconsin

Target Analyte List	Residential VAL	Small Commercial VAL	Large Commercial VAL	Indoor Air Samples			Outdoor Air Control Sample
				IA-1 (Building E)	IA-2 (Building D West)	IA-3 (Building D East)	OA-1
(Units: ug/m <sup>3</sup> )	(included for comparison)			16-Feb-23	16-Feb-23	16-Feb-23	16-Feb-23
1,1-Dichloroethane	18	77	77	<0.25	<0.15	<0.16	<0.15
1,1-Dichloroethene	210	880	880	<0.38	<0.24	<0.24	<0.22
1,2-Dichloroethane	1.1	4.7	4.7	<0.29	<0.18	<0.19	<0.17
cis-1,2-Dichloroethene	---	---	---	<0.49	<0.31	<0.32	<0.29
Tetrachloroethene	42	180	180	2.6	1.5	1.6	<0.34
Trichloroethene	2.1	8.8	8.8	1.5	2.1	2	<0.33
Vinyl chloride	1.7	28	28	<0.22	<0.14	<0.14	<0.13

**Notes:**

VAL = Vapor Action Level (Indoor Air)

(VALs based on Nov. 2022 USEPA Regional Screening Levels)

ug/m<sup>3</sup> = micrograms per cubic meter

< = Less than reporting limit

Samples were analyzed by Pace Analytical Services Minneapolis, MN

**February 2023**  
**Sub-Slab Vapor Analytical Table**

Former FV Steel and Wire Site  
Hortonville, Wisconsin

VOCs (ug/m3)	Large Commercial VRSL	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
		17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23
1,1,1-Trichloroethane	2200000	3790	1670	15400	2990	2660	2190	1780	454	846	278	2530	
1,1,2,2-Tetrachloroethane		<0.45	<0.44	<0.54	<0.37	<0.61	<0.46	<0.54	<0.51	<0.45	<2.4	<14.7	
1,1,2-Trichloroethane		1.1	<0.40	<0.48	0.9	<0.55	<0.42	<0.48	<0.46	<0.41	<2.2	<13.2	
1,1,2-Trichlorotrifluoroethane		0.66J	0.86J	9.1	0.74J	0.90J	1.4J	0.50J	<0.41	0.99J	<1.9	<11.7	
1,1-Dichloroethane	7700	9.3	<0.17	25.1	7.8	3.1	3	0.85J	0.30J	2.9	<0.90	<5.5	<0.17
1,1-Dichloroethene	88000	4.8	2.9	856	3.5	9	27.5	1.8	0.78J	6.3	<1.4	<8.4	2.4
1,2,4-Trichlorobenzene		<9.1	<8.9	<10.7	<7.4	<12.2	<9.2	<10.7	<10.3	<9.1	<48.1	<294	
1,2,4-Trimethylbenzene	26000	1.7	1.9	1.7J	1.8	<0.75	1.6	3.5	2.9	1.7	4.6J	<18.0	
1,2-Dibromoethane (EDB)		<0.49	<0.48	<0.58	<0.40	<0.66	<0.50	<0.58	<0.55	<0.49	<2.6	<15.9	
1,2-Dichlorobenzene		<1.4	<1.3	<1.6	<1.1	<1.8	<1.4	<1.6	<1.5	<1.4	<7.2	<44.2	
1,2-Dichloroethane	470	<0.20	<0.20	<0.24	<0.17	<0.27	<0.20	<0.24	<0.23	<0.20	<1.1	<6.5	<0.20
1,2-Dichloropropane		<0.32	<0.31	<0.38	<0.26	<0.43	<0.32	<0.38	<0.36	<0.32	<1.7	<10.3	
1,3,5-Trimethylbenzene	26000	0.55J	0.60J	<0.51	0.50J	<0.58	<0.44	1.2J	0.90J	<0.43	<2.3	<14.1	
1,3-Butadiene		<0.18	<0.17	<0.21	<0.14	<0.24	<0.18	<0.21	<0.20	<0.18	<0.93	<5.7	
1,3-Dichlorobenzene		<1.3	<1.3	<1.5	<1.1	<1.8	<1.3	<1.5	<1.5	<1.3	<6.9	<42.3	
1,4-Dichlorobenzene		<1.3	<1.3	<1.5	<1.1	<1.7	<1.3	<1.5	<1.5	<1.3	<6.8	<41.6	
2-Butanone (MEK)		2.6J	3.1J	3.2J	3.9	3.0J	2.1J	4.7J	6.2	18.3	14.5J	28.7J	
2-Hexanone		<1.1	<1.1	<1.3	<0.89	<1.5	<1.1	1.5J	1.5J	1.2J	6.7J	<35.3	
2-Propanol		2.2J	5.9	3.3J	5.2	5.1J	<1.5	10.4	8.4	11.4	<8.1	<49.2	
4-Ethyltoluene		0.95J	1.0J	1.0J	0.89J	<0.87	0.96J	1.5J	1.3J	1.0J	<3.4	<20.9	
4-Methyl-2-pentanone (MIBK)		<0.85	<0.83	<1.0	<0.70	<1.1	<0.87	<1.0	<0.96	1.3J	<4.5	<27.6	
Acetone		9.3J	11.5	12.8	27	29.9	5.2J	41.6	58.3	368	274	186J	
Benzene	1600	1.7	0.93	1.8	3.9	2.1	0.51J	4.9	2.3	1.1	2.1J	<5.6	
Benzyl chloride		<1.2	<1.2	<1.4	<1.0	<1.6	<1.2	<1.4	<1.4	<1.2	<6.5	<39.4	
Bromodichloromethane		<0.51	<0.50	<0.60	<0.42	<0.68	<0.52	<0.60	<0.57	<0.51	<2.7	<16.4	
Bromoform		<1.2	<1.2	<1.5	<1.0	<1.7	<1.3	<1.5	<1.4	<1.2	<6.5	<39.9	
Bromomethane		<0.47	<0.46	<0.55	<0.38	<0.63	<0.48	<0.55	<0.53	<0.47	<2.5	<15.2	
Carbon disulfide		0.95J	<0.36	<0.44	0.38J	0.74J	<0.38	0.60J	0.94J	3.9	<2.0	<12.0	
Carbon tetrachloride	2000	<0.66	<0.65	<0.78	<0.54	<0.89	<0.67	<0.78	<0.75	<0.66	<3.5	<21.5	
Chlorobenzene		<0.22	<0.22	<0.26	<0.18	<0.30	<0.22	<0.26	<0.25	<0.22	<1.2	<7.1	
Chloroethane		<0.32	<0.32	<0.38	0.29J	<0.44	<0.33	<0.38	<0.37	<0.32	<1.7	<10.5	
Chloroform	530	21.6	6.9	2.6	74.4	9.2	0.73J	2.6	<0.24	0.8	<1.1	<6.9	
Chloromethane	39000	<0.14	<0.14	<0.16	<0.11	<0.19	<0.14	<0.16	<0.16	<0.14	<0.74	<4.5	
Cyclohexane		0.79J	<0.21	1.7J	1.4J	1.2J	0.26J	4.7	2.7J	2.2J	7.1J	<6.9	
Dibromochloromethane		<0.57	<0.56	<0.67	<0.47	<0.77	<0.58	<0.67	<0.64	<0.57	<3.0	<18.5	
Dichlorodifluoromethane	44000	162	62.8	23.8	363	262	14.6	2820	37700	2.8	<4.3	<26.3	
Dichlorotetrafluoroethane		<0.38	<0.38	<0.45	<0.32	<0.52	<0.39	<0.45	<0.43	<0.38	<2.0	<12.5	
Ethanol		24.6	26.6	45.6	30	51.8	9.1	68.2	76.5	61	41	52.2J	
Ethyl acetate		<0.25	<0.25	<0.30	0.80J	<0.34	<0.26	<0.30	<0.29	<0.25	<1.3	<8.2	
Ethylbenzene	4900	0.80J	0.52J	0.67J	1.3	0.53J	0.36J	5.7	4	1.3J	6.9J	25.6J	
Hexachloro-1,3-butadiene		<2.8	<2.7	<3.3	<2.3	<3.7	<2.8	<3.3	<3.2	<2.8	<14.8	<90.3	
Methyl-tert-butyl ether	47000	<0.40	<0.39	<0.47	<0.32	<0.53	<0.40	<0.47	<0.45	<0.40	<2.1	<12.8	
Methylene Chloride	260000	<0.20	<0.19	<0.23	3.4J	<0.27	5.2J	1.0J	0.79J	1.5J	3.5J	<6.4	
Naphthalene	360	<3.3	<3.2	<3.9	<2.7	<4.5	<3.4	<3.9	<3.7	<3.3	<17.6	<107	
Propylene		<0.56	<0.55	<0.67	<0.46	<0.76	<0.57	<0.67	7.3	<0.56	<3.0	<18.3	
Styrene		<0.66	<0.64	<0.78	0.57J	<0.88	<0.67	0.89J	0.93J	<0.66	<3.5	<21.3	
Tetrachloroethene	18000	333	153	1950	229	82.4	222	87.3	27.5	356	29.3	152	72.4
Tetrahydrofuran		<0.29	<0.29	<0.35	<0.24	0.45J	<0.30	<0.35	<0.33	<0.29	<1.6	<9.5	
Toluene	2200000	2.1	1.5	1.9	5.3	3.9	1.2J	15.6	11.8	5	12.7	31.3J	
Trichloroethene	880	<b>7380</b>	<b>1210</b>	<b>2260</b>	<b>9150</b>	<b>6520</b>	149	<b>2590</b>	33.1	323	290	<b>1780</b>	<b>51.8</b>

**February 2023**  
**Sub-Slab Vapor Analytical Table**

Former FV Steel and Wire Site  
 Hortonville, Wisconsin

VOCs (ug/m3)	Large Commercial VRSL	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
		17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23	17-Feb-23
Trichlorofluoromethane		1.5J	1.4J	1.5J	1.6	1.5J	1.4J	3	21.5	1.3J	<1.7	<10.4	
Vinyl acetate		<0.28	<0.27	<0.33	<0.23	<0.37	<0.28	<0.33	<0.32	<0.28	<1.5	<9.0	
Vinyl chloride	2800	<0.15	<0.15	<b>0.76</b>	<0.12	<0.20	<0.15	<0.18	<0.17	<0.15	<0.81	<4.9	<0.15
cis-1,2-Dichloroethene		2.5	<0.33	<0.40	2.5	<b>0.88J</b>	<0.34	<0.40	<0.38	<0.34	<1.8	<11.0	<0.34
cis-1,3-Dichloropropene		<1.0	<1.0	<1.2	<0.85	<1.4	<1.1	<1.2	<1.2	<1.0	<5.5	<33.5	
m&p-Xylene		1.8J	1.9J	2.2J	4	1.5J	1.5J	9.2	6.9	3	10J	39.1J	
n-Heptane		0.46J	<0.20	0.73J	1.3	0.42J	<0.21	4.8	4	2.8	6.6J	<6.6	
n-Hexane		0.63J	0.45J	1.0J	2.6	0.97J	<0.37	6.2	4.7	5.3	9.1	<11.9	
o-Xylene	44000	0.94J	0.78J	0.86J	1.8	0.47J	0.61J	3.5	2.6	1.0J	<1.5	<9.1	
trans-1,2-Dichloroethene		0.86J	1.7	<0.78	1.1	<0.88	<0.67	<0.78	<0.74	<0.66	<3.5	<21.3	
trans-1,3-Dichloropropene		<1.2	<1.2	<1.5	<1.0	<1.7	<1.3	<1.5	<1.4	<1.2	<6.5	<39.9	

Notes:

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

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

Values in **bold** exceeds Large Commercial 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

March 14, 2023

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

RE: Project: 60428891 FV Steel and Wire Co  
Pace Project No.: 10643658

Dear Gary Braun:

Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 2023. 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

This report shall not be reproduced, except in full,  
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## CERTIFICATIONS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

### Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

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

A2LA Certification #: 2926.01\*

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 (\*).

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 60428891 FV Steel and Wire Co  
Pace Project No.: 10643658

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10643658001	IA-1	Air	02/16/23 16:45	02/21/23 11:30
10643658002	IA-2	Air	02/16/23 16:50	02/21/23 11:30
10643658003	IA-3	Air	02/16/23 16:55	02/21/23 11:30
10643658004	OA-1	Air	02/16/23 17:00	02/21/23 11:30
10643658005	SS-2	Air	02/17/23 09:58	02/21/23 11:30
10643658006	SS-1	Air	02/17/23 09:57	02/21/23 11:30
10643658007	SS-3	Air	02/17/23 10:00	02/21/23 11:30
10643658008	SS-4	Air	02/17/23 10:02	02/21/23 11:30
10643658009	SS-5	Air	02/17/23 10:04	02/21/23 11:30
10643658010	SS-6	Air	02/17/23 10:06	02/21/23 11:30
10643658011	SS-7	Air	02/17/23 14:12	02/21/23 11:30
10643658012	SS-8	Air	02/17/23 14:45	02/21/23 11:30
10643658013	SS-9	Air	02/17/23 12:40	02/21/23 11:30
10643658014	SS-10	Air	02/17/23 12:43	02/21/23 11:30
10643658015	SS-11	Air	02/17/23 12:47	02/21/23 11:30
10643658016	SS-12	Air	02/17/23 12:45	02/21/23 11:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10643658001	IA-1	TO-15	MJL	7
10643658002	IA-2	TO-15	MJL	7
10643658003	IA-3	TO-15	MJL	7
10643658004	OA-1	TO-15	MJL	7
10643658005	SS-2	TO-15	MJL	61
10643658006	SS-1	TO-15	MJL	61
10643658007	SS-3	TO-15	MJL	61
10643658008	SS-4	TO-15	MJL	61
10643658009	SS-5	TO-15	MJL	61
10643658010	SS-6	TO-15	MJL	61
10643658011	SS-7	TO-15	MJL	61
10643658012	SS-8	TO-15	MJL	61
10643658013	SS-9	TO-15	MJL	61
10643658014	SS-10	TO-15	DR1	61
10643658015	SS-11	TO-15	AJA	61
10643658016	SS-12	TO-15	AJA	7

PASI-M = Pace Analytical Services - Minneapolis

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## PROJECT NARRATIVE

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

---

**Method:** TO-15

**Description:** TO15 MSV AIR

**Client:** AECOM-Wisconsin

**Date:** March 14, 2023

**General Information:**

16 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: 869647

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

- SS-4 (Lab ID: 10643658008)
  - 1,1-Dichloroethene
- SS-6 (Lab ID: 10643658010)
  - Trichloroethene
- SS-8 (Lab ID: 10643658012)
  - Trichloroethene

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- DUP (Lab ID: 4587720)
  - Ethanol
- SS-1 (Lab ID: 10643658006)
  - 1,1,1-Trichloroethane
- SS-3 (Lab ID: 10643658007)
  - 1,1-Dichloroethene

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## PROJECT NARRATIVE

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

---

**Method:** TO-15

**Description:** TO15 MSV AIR

**Client:** AECOM-Wisconsin

**Date:** March 14, 2023

Analyte Comments:

QC Batch: 869647

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- SS-3 (Lab ID: 10643658007)
  - Tetrachloroethene
  - Trichloroethene
- SS-4 (Lab ID: 10643658008)
  - 1,1,1-Trichloroethane
  - Dichlorodifluoromethane
- SS-8 (Lab ID: 10643658012)
  - Dichlorodifluoromethane

QC Batch: 870869

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- DUP (Lab ID: 4593851)
  - Ethanol
- DUP (Lab ID: 4593852)
  - Ethanol

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

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### ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

Sample: IA-1									
Lab ID: 10643658001									
Collected: 02/16/23 16:45									
Received: 02/21/23 11:30									
Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.25	ug/m3	1.9	0.25	2.3		03/02/23 19:59	75-34-3	
1,2-Dichloroethane	<0.29	ug/m3	1.9	0.29	2.3		03/02/23 19:59	107-06-2	
1,1-Dichloroethene	<0.38	ug/m3	1.9	0.38	2.3		03/02/23 19:59	75-35-4	
cis-1,2-Dichloroethene	<0.49	ug/m3	1.9	0.49	2.3		03/02/23 19:59	156-59-2	
Tetrachloroethene	2.6	ug/m3	1.6	0.57	2.3		03/02/23 19:59	127-18-4	
Trichloroethene	1.5	ug/m3	1.3	0.55	2.3		03/02/23 19:59	79-01-6	
Vinyl chloride	<0.22	ug/m3	0.60	0.22	2.3		03/02/23 19:59	75-01-4	

Sample: IA-2									
Lab ID: 10643658002									
Collected: 02/16/23 16:50									
Received: 02/21/23 11:30									
Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.15	ug/m3	1.2	0.15	1.44		03/02/23 19:01	75-34-3	
1,2-Dichloroethane	<0.18	ug/m3	1.2	0.18	1.44		03/02/23 19:01	107-06-2	
1,1-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.44		03/02/23 19:01	75-35-4	
cis-1,2-Dichloroethene	<0.31	ug/m3	1.2	0.31	1.44		03/02/23 19:01	156-59-2	
Tetrachloroethene	1.5	ug/m3	0.99	0.36	1.44		03/02/23 19:01	127-18-4	
Trichloroethene	2.1	ug/m3	0.79	0.34	1.44		03/03/23 11:08	79-01-6	
Vinyl chloride	<0.14	ug/m3	0.37	0.14	1.44		03/02/23 19:01	75-01-4	

Sample: IA-3									
Lab ID: 10643658003									
Collected: 02/16/23 16:55									
Received: 02/21/23 11:30									
Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.16	ug/m3	1.2	0.16	1.49		03/02/23 20:57	75-34-3	
1,2-Dichloroethane	<0.19	ug/m3	1.2	0.19	1.49		03/02/23 20:57	107-06-2	
1,1-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.49		03/02/23 20:57	75-35-4	
cis-1,2-Dichloroethene	<0.32	ug/m3	1.2	0.32	1.49		03/02/23 20:57	156-59-2	
Tetrachloroethene	1.6	ug/m3	1.0	0.37	1.49		03/02/23 20:57	127-18-4	
Trichloroethene	2.0	ug/m3	0.81	0.36	1.49		03/02/23 20:57	79-01-6	
Vinyl chloride	<0.14	ug/m3	0.39	0.14	1.49		03/02/23 20:57	75-01-4	

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## ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

Sample: OA-1									
		Lab ID: 10643658004	Collected: 02/16/23 17:00	Received: 02/21/23 11:30	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.15	ug/m3	1.1	0.15	1.36		03/02/23 20:28	75-34-3	
1,2-Dichloroethane	<0.17	ug/m3	1.1	0.17	1.36		03/02/23 20:28	107-06-2	
1,1-Dichloroethene	<0.22	ug/m3	1.1	0.22	1.36		03/02/23 20:28	75-35-4	
cis-1,2-Dichloroethene	<0.29	ug/m3	1.1	0.29	1.36		03/02/23 20:28	156-59-2	
Tetrachloroethene	<0.34	ug/m3	0.94	0.34	1.36		03/02/23 20:28	127-18-4	
Trichloroethene	<0.33	ug/m3	0.74	0.33	1.36		03/02/23 20:28	79-01-6	
Vinyl chloride	<0.13	ug/m3	0.35	0.13	1.36		03/02/23 20:28	75-01-4	

Sample: SS-2									
		Lab ID: 10643658005	Collected: 02/17/23 09:58	Received: 02/21/23 11:30	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	11.5	ug/m3	9.4	3.5	1.55		03/02/23 17:03	67-64-1	
Benzene	0.93	ug/m3	0.50	0.17	1.55		03/02/23 17:03	71-43-2	
Benzyl chloride	<1.2	ug/m3	4.1	1.2	1.55		03/02/23 17:03	100-44-7	
Bromodichloromethane	<0.50	ug/m3	2.1	0.50	1.55		03/02/23 17:03	75-27-4	
Bromoform	<1.2	ug/m3	8.1	1.2	1.55		03/02/23 17:03	75-25-2	
Bromomethane	<0.46	ug/m3	1.2	0.46	1.55		03/02/23 17:03	74-83-9	
1,3-Butadiene	<0.17	ug/m3	0.70	0.17	1.55		03/02/23 17:03	106-99-0	
2-Butanone (MEK)	3.1J	ug/m3	4.6	0.58	1.55		03/02/23 17:03	78-93-3	
Carbon disulfide	<0.36	ug/m3	0.98	0.36	1.55		03/02/23 17:03	75-15-0	
Carbon tetrachloride	<0.65	ug/m3	2.0	0.65	1.55		03/02/23 17:03	56-23-5	
Chlorobenzene	<0.22	ug/m3	1.5	0.22	1.55		03/02/23 17:03	108-90-7	
Chloroethane	<0.32	ug/m3	0.83	0.32	1.55		03/02/23 17:03	75-00-3	
Chloroform	6.9	ug/m3	0.77	0.21	1.55		03/02/23 17:03	67-66-3	
Chloromethane	<0.14	ug/m3	0.65	0.14	1.55		03/02/23 17:03	74-87-3	
Cyclohexane	<0.21	ug/m3	2.7	0.21	1.55		03/02/23 17:03	110-82-7	
Dibromochloromethane	<0.56	ug/m3	2.7	0.56	1.55		03/02/23 17:03	124-48-1	
1,2-Dibromoethane (EDB)	<0.48	ug/m3	1.2	0.48	1.55		03/02/23 17:03	106-93-4	
1,2-Dichlorobenzene	<1.3	ug/m3	4.7	1.3	1.55		03/02/23 17:03	95-50-1	
1,3-Dichlorobenzene	<1.3	ug/m3	4.7	1.3	1.55		03/02/23 17:03	541-73-1	
1,4-Dichlorobenzene	<1.3	ug/m3	4.7	1.3	1.55		03/02/23 17:03	106-46-7	
Dichlorodifluoromethane	62.8	ug/m3	1.6	0.80	1.55		03/02/23 17:03	75-71-8	
1,1-Dichloroethane	<0.17	ug/m3	1.3	0.17	1.55		03/02/23 17:03	75-34-3	
1,2-Dichloroethane	<0.20	ug/m3	1.3	0.20	1.55		03/02/23 17:03	107-06-2	
1,1-Dichloroethene	2.9	ug/m3	1.2	0.25	1.55		03/02/23 17:03	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	0.33	1.55		03/02/23 17:03	156-59-2	
trans-1,2-Dichloroethene	1.7	ug/m3	1.2	0.64	1.55		03/02/23 17:03	156-60-5	
1,2-Dichloropropane	<0.31	ug/m3	1.5	0.31	1.55		03/02/23 17:03	78-87-5	
cis-1,3-Dichloropropene	<1.0	ug/m3	3.6	1.0	1.55		03/02/23 17:03	10061-01-5	
trans-1,3-Dichloropropene	<1.2	ug/m3	3.6	1.2	1.55		03/02/23 17:03	10061-02-6	

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### ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Sample Project No.: 10643658

Sample:	SS-2	Lab ID:	10643658005	Collected:	02/17/23 09:58	Received:	02/21/23 11:30	Matrix:	Air
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorotetrafluoroethane	<0.38	ug/m3	2.2	0.38	1.55		03/02/23 17:03	76-14-2	
Ethanol	26.6	ug/m3	3.0	1.4	1.55		03/02/23 17:03	64-17-5	
Ethyl acetate	<0.25	ug/m3	1.1	0.25	1.55		03/02/23 17:03	141-78-6	
Ethylbenzene	0.52J	ug/m3	1.4	0.28	1.55		03/02/23 17:03	100-41-4	
4-Ethyltoluene	1.0J	ug/m3	3.9	0.63	1.55		03/02/23 17:03	622-96-8	
n-Heptane	<0.20	ug/m3	1.3	0.20	1.55		03/02/23 17:03	142-82-5	
Hexachloro-1,3-butadiene	<2.7	ug/m3	8.4	2.7	1.55		03/02/23 17:03	87-68-3	
n-Hexane	0.45J	ug/m3	1.1	0.36	1.55		03/02/23 17:03	110-54-3	
2-Hexanone	<1.1	ug/m3	6.4	1.1	1.55		03/02/23 17:03	591-78-6	
Methylene Chloride	<0.19	ug/m3	5.5	0.19	1.55		03/02/23 17:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.83	ug/m3	6.4	0.83	1.55		03/02/23 17:03	108-10-1	
Methyl-tert-butyl ether	<0.39	ug/m3	5.7	0.39	1.55		03/02/23 17:03	1634-04-4	
Naphthalene	<3.2	ug/m3	4.1	3.2	1.55		03/02/23 17:03	91-20-3	
2-Propanol	5.9	ug/m3	3.9	1.5	1.55		03/02/23 17:03	67-63-0	
Propylene	<0.55	ug/m3	1.4	0.55	1.55		03/02/23 17:03	115-07-1	
Styrene	<0.64	ug/m3	1.3	0.64	1.55		03/02/23 17:03	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	2.2	0.44	1.55		03/02/23 17:03	79-34-5	
Tetrachloroethene	153	ug/m3	1.1	0.38	1.55		03/02/23 17:03	127-18-4	
Tetrahydrofuran	<0.29	ug/m3	0.93	0.29	1.55		03/02/23 17:03	109-99-9	
Toluene	1.5	ug/m3	1.2	0.25	1.55		03/02/23 17:03	108-88-3	
1,2,4-Trichlorobenzene	<8.9	ug/m3	11.7	8.9	1.55		03/02/23 17:03	120-82-1	
1,1,1-Trichloroethane	1670	ug/m3	206	33.7	186		03/03/23 14:47	71-55-6	
1,1,2-Trichloroethane	<0.40	ug/m3	0.86	0.40	1.55		03/02/23 17:03	79-00-5	
Trichloroethene	1210	ug/m3	102	44.5	186		03/03/23 14:47	79-01-6	
Trichlorofluoromethane	1.4J	ug/m3	1.8	0.31	1.55		03/02/23 17:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.86J	ug/m3	2.4	0.35	1.55		03/02/23 17:03	76-13-1	
1,2,4-Trimethylbenzene	1.9	ug/m3	1.5	0.54	1.55		03/02/23 17:03	95-63-6	
1,3,5-Trimethylbenzene	0.60J	ug/m3	1.5	0.42	1.55		03/02/23 17:03	108-67-8	
Vinyl acetate	<0.27	ug/m3	1.1	0.27	1.55		03/02/23 17:03	108-05-4	
Vinyl chloride	<0.15	ug/m3	0.40	0.15	1.55		03/02/23 17:03	75-01-4	
m&p-Xylene	1.9J	ug/m3	2.7	0.76	1.55		03/02/23 17:03	179601-23-1	
o-Xylene	0.78J	ug/m3	1.4	0.28	1.55		03/02/23 17:03	95-47-6	

Sample:	SS-1	Lab ID:	10643658006	Collected:	02/17/23 09:57	Received:	02/21/23 11:30	Matrix:	Air
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	9.3J	ug/m3	9.5	3.5	1.58		03/02/23 13:36	67-64-1	
Benzene	1.7	ug/m3	0.51	0.17	1.58		03/02/23 13:36	71-43-2	
Benzyl chloride	<1.2	ug/m3	4.2	1.2	1.58		03/02/23 13:36	100-44-7	
Bromodichloromethane	<0.51	ug/m3	2.1	0.51	1.58		03/02/23 13:36	75-27-4	

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## ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

**Sample: SS-1**      **Lab ID: 10643658006**      Collected: 02/17/23 09:57      Received: 02/21/23 11:30      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Bromoform	<1.2	ug/m3	8.3	1.2	1.58		03/02/23 13:36	75-25-2	
Bromomethane	<0.47	ug/m3	1.2	0.47	1.58		03/02/23 13:36	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.71	0.18	1.58		03/02/23 13:36	106-99-0	
2-Butanone (MEK)	2.6J	ug/m3	4.7	0.59	1.58		03/02/23 13:36	78-93-3	
Carbon disulfide	0.95J	ug/m3	1.0	0.37	1.58		03/02/23 13:36	75-15-0	
Carbon tetrachloride	<0.66	ug/m3	2.0	0.66	1.58		03/02/23 13:36	56-23-5	
Chlorobenzene	<0.22	ug/m3	1.5	0.22	1.58		03/02/23 13:36	108-90-7	
Chloroethane	<0.32	ug/m3	0.85	0.32	1.58		03/02/23 13:36	75-00-3	
Chloroform	21.6	ug/m3	0.78	0.21	1.58		03/02/23 13:36	67-66-3	
Chloromethane	<0.14	ug/m3	0.66	0.14	1.58		03/02/23 13:36	74-87-3	
Cyclohexane	0.79J	ug/m3	2.8	0.21	1.58		03/02/23 13:36	110-82-7	
Dibromochloromethane	<0.57	ug/m3	2.7	0.57	1.58		03/02/23 13:36	124-48-1	
1,2-Dibromoethane (EDB)	<0.49	ug/m3	1.2	0.49	1.58		03/02/23 13:36	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/m3	4.8	1.4	1.58		03/02/23 13:36	95-50-1	
1,3-Dichlorobenzene	<1.3	ug/m3	4.8	1.3	1.58		03/02/23 13:36	541-73-1	
1,4-Dichlorobenzene	<1.3	ug/m3	4.8	1.3	1.58		03/02/23 13:36	106-46-7	
Dichlorodifluoromethane	162	ug/m3	1.6	0.81	1.58		03/02/23 13:36	75-71-8	
1,1-Dichloroethane	9.3	ug/m3	1.3	0.17	1.58		03/02/23 13:36	75-34-3	
1,2-Dichloroethane	<0.20	ug/m3	1.3	0.20	1.58		03/02/23 13:36	107-06-2	
1,1-Dichloroethene	4.8	ug/m3	1.3	0.26	1.58		03/02/23 13:36	75-35-4	
cis-1,2-Dichloroethene	2.5	ug/m3	1.3	0.34	1.58		03/02/23 13:36	156-59-2	
trans-1,2-Dichloroethene	0.86J	ug/m3	1.3	0.66	1.58		03/02/23 13:36	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.5	0.32	1.58		03/02/23 13:36	78-87-5	
cis-1,3-Dichloropropene	<1.0	ug/m3	3.6	1.0	1.58		03/02/23 13:36	10061-01-5	
trans-1,3-Dichloropropene	<1.2	ug/m3	3.6	1.2	1.58		03/02/23 13:36	10061-02-6	
Dichlorotetrafluoroethane	<0.38	ug/m3	2.2	0.38	1.58		03/02/23 13:36	76-14-2	
Ethanol	24.6	ug/m3	3.0	1.4	1.58		03/02/23 13:36	64-17-5	
Ethyl acetate	<0.25	ug/m3	1.2	0.25	1.58		03/02/23 13:36	141-78-6	
Ethylbenzene	0.80J	ug/m3	1.4	0.28	1.58		03/02/23 13:36	100-41-4	
4-Ethyltoluene	0.95J	ug/m3	4.0	0.64	1.58		03/02/23 13:36	622-96-8	
n-Heptane	0.46J	ug/m3	1.3	0.20	1.58		03/02/23 13:36	142-82-5	
Hexachloro-1,3-butadiene	<2.8	ug/m3	8.6	2.8	1.58		03/02/23 13:36	87-68-3	
n-Hexane	0.63J	ug/m3	1.1	0.37	1.58		03/02/23 13:36	110-54-3	
2-Hexanone	<1.1	ug/m3	6.6	1.1	1.58		03/02/23 13:36	591-78-6	
Methylene Chloride	<0.20	ug/m3	5.6	0.20	1.58		03/02/23 13:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.85	ug/m3	6.6	0.85	1.58		03/02/23 13:36	108-10-1	
Methyl-tert-butyl ether	<0.40	ug/m3	5.8	0.40	1.58		03/02/23 13:36	1634-04-4	
Naphthalene	<3.3	ug/m3	4.2	3.3	1.58		03/02/23 13:36	91-20-3	
2-Propanol	2.2J	ug/m3	4.0	1.5	1.58		03/02/23 13:36	67-63-0	
Propylene	<0.56	ug/m3	1.4	0.56	1.58		03/02/23 13:36	115-07-1	
Styrene	<0.66	ug/m3	1.4	0.66	1.58		03/02/23 13:36	100-42-5	
1,1,2,2-Tetrachloroethane	<0.45	ug/m3	2.2	0.45	1.58		03/02/23 13:36	79-34-5	
Tetrachloroethene	333	ug/m3	1.1	0.39	1.58		03/02/23 13:36	127-18-4	
Tetrahydrofuran	<0.29	ug/m3	0.95	0.29	1.58		03/02/23 13:36	109-99-9	
Toluene	2.1	ug/m3	1.2	0.26	1.58		03/02/23 13:36	108-88-3	

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### ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

Sample: SS-1 Lab ID: 10643658006 Collected: 02/17/23 09:57 Received: 02/21/23 11:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,2,4-Trichlorobenzene	<9.1	ug/m3	11.9	9.1	1.58		03/02/23 13:36	120-82-1	
1,1,1-Trichloroethane	3790	ug/m3	1.8	0.29	1.58		03/02/23 13:36	71-55-6	E
1,1,2-Trichloroethane	1.1	ug/m3	0.88	0.41	1.58		03/02/23 13:36	79-00-5	
Trichloroethene	7380	ug/m3	1660	725	3034		03/03/23 12:59	79-01-6	
Trichlorofluoromethane	1.5J	ug/m3	1.8	0.32	1.58		03/02/23 13:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.66J	ug/m3	2.5	0.36	1.58		03/02/23 13:36	76-13-1	
1,2,4-Trimethylbenzene	1.7	ug/m3	1.6	0.55	1.58		03/02/23 13:36	95-63-6	
1,3,5-Trimethylbenzene	0.55J	ug/m3	1.6	0.43	1.58		03/02/23 13:36	108-67-8	
Vinyl acetate	<0.28	ug/m3	1.1	0.28	1.58		03/02/23 13:36	108-05-4	
Vinyl chloride	<0.15	ug/m3	0.41	0.15	1.58		03/02/23 13:36	75-01-4	
m&p-Xylene	1.8J	ug/m3	2.8	0.78	1.58		03/02/23 13:36	179601-23-1	
o-Xylene	0.94J	ug/m3	1.4	0.28	1.58		03/02/23 13:36	95-47-6	

Sample: SS-3 Lab ID: 10643658007 Collected: 02/17/23 10:00 Received: 02/21/23 11:30 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	12.8	ug/m3	11.3	4.2	1.87		03/02/23 18:02	67-64-1	
Benzene	1.8	ug/m3	0.61	0.21	1.87		03/02/23 18:02	71-43-2	
Benzyl chloride	<1.4	ug/m3	4.9	1.4	1.87		03/02/23 18:02	100-44-7	
Bromodichloromethane	<0.60	ug/m3	2.5	0.60	1.87		03/02/23 18:02	75-27-4	
Bromoform	<1.5	ug/m3	9.8	1.5	1.87		03/02/23 18:02	75-25-2	
Bromomethane	<0.55	ug/m3	1.5	0.55	1.87		03/02/23 18:02	74-83-9	
1,3-Butadiene	<0.21	ug/m3	0.84	0.21	1.87		03/02/23 18:02	106-99-0	
2-Butanone (MEK)	3.2J	ug/m3	5.6	0.70	1.87		03/02/23 18:02	78-93-3	
Carbon disulfide	<0.44	ug/m3	1.2	0.44	1.87		03/02/23 18:02	75-15-0	
Carbon tetrachloride	<0.78	ug/m3	2.4	0.78	1.87		03/02/23 18:02	56-23-5	
Chlorobenzene	<0.26	ug/m3	1.8	0.26	1.87		03/02/23 18:02	108-90-7	
Chloroethane	<0.38	ug/m3	1.0	0.38	1.87		03/02/23 18:02	75-00-3	
Chloroform	2.6	ug/m3	0.93	0.25	1.87		03/02/23 18:02	67-66-3	
Chloromethane	<0.16	ug/m3	0.79	0.16	1.87		03/02/23 18:02	74-87-3	
Cyclohexane	1.7J	ug/m3	3.3	0.25	1.87		03/02/23 18:02	110-82-7	
Dibromochloromethane	<0.67	ug/m3	3.2	0.67	1.87		03/02/23 18:02	124-48-1	
1,2-Dibromoethane (EDB)	<0.58	ug/m3	1.5	0.58	1.87		03/02/23 18:02	106-93-4	
1,2-Dichlorobenzene	<1.6	ug/m3	5.7	1.6	1.87		03/02/23 18:02	95-50-1	
1,3-Dichlorobenzene	<1.5	ug/m3	5.7	1.5	1.87		03/02/23 18:02	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	5.7	1.5	1.87		03/02/23 18:02	106-46-7	
Dichlorodifluoromethane	23.8	ug/m3	1.9	0.96	1.87		03/02/23 18:02	75-71-8	
1,1-Dichloroethane	25.1	ug/m3	1.5	0.20	1.87		03/02/23 18:02	75-34-3	
1,2-Dichloroethane	<0.24	ug/m3	1.5	0.24	1.87		03/02/23 18:02	107-06-2	
1,1-Dichloroethene	856	ug/m3	1.5	0.31	1.87		03/02/23 18:02	75-35-4	E

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### ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

Sample: SS-3 Lab ID: 10643658007 Collected: 02/17/23 10:00 Received: 02/21/23 11:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.40	ug/m3	1.5	0.40	1.87		03/02/23 18:02	156-59-2	
trans-1,2-Dichloroethene	<0.78	ug/m3	1.5	0.78	1.87		03/02/23 18:02	156-60-5	
1,2-Dichloropropane	<0.38	ug/m3	1.8	0.38	1.87		03/02/23 18:02	78-87-5	
cis-1,3-Dichloropropene	<1.2	ug/m3	4.3	1.2	1.87		03/02/23 18:02	10061-01-5	
trans-1,3-Dichloropropene	<1.5	ug/m3	4.3	1.5	1.87		03/02/23 18:02	10061-02-6	
Dichlorotetrafluoroethane	<0.45	ug/m3	2.7	0.45	1.87		03/02/23 18:02	76-14-2	
Ethanol	45.6	ug/m3	3.6	1.7	1.87		03/02/23 18:02	64-17-5	
Ethyl acetate	<0.30	ug/m3	1.4	0.30	1.87		03/02/23 18:02	141-78-6	
Ethylbenzene	0.67J	ug/m3	1.7	0.33	1.87		03/02/23 18:02	100-41-4	
4-Ethyltoluene	1.0J	ug/m3	4.7	0.76	1.87		03/02/23 18:02	622-96-8	
n-Heptane	0.73J	ug/m3	1.6	0.24	1.87		03/02/23 18:02	142-82-5	
Hexachloro-1,3-butadiene	<3.3	ug/m3	10.1	3.3	1.87		03/02/23 18:02	87-68-3	
n-Hexane	1.0J	ug/m3	1.3	0.43	1.87		03/02/23 18:02	110-54-3	
2-Hexanone	<1.3	ug/m3	7.8	1.3	1.87		03/02/23 18:02	591-78-6	
Methylene Chloride	<0.23	ug/m3	6.6	0.23	1.87		03/02/23 18:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/m3	7.8	1.0	1.87		03/02/23 18:02	108-10-1	
Methyl-tert-butyl ether	<0.47	ug/m3	6.8	0.47	1.87		03/02/23 18:02	1634-04-4	
Naphthalene	<3.9	ug/m3	5.0	3.9	1.87		03/02/23 18:02	91-20-3	
2-Propanol	3.3J	ug/m3	4.7	1.8	1.87		03/02/23 18:02	67-63-0	
Propylene	<0.67	ug/m3	1.6	0.67	1.87		03/02/23 18:02	115-07-1	
Styrene	<0.78	ug/m3	1.6	0.78	1.87		03/02/23 18:02	100-42-5	
1,1,2,2-Tetrachloroethane	<0.54	ug/m3	2.6	0.54	1.87		03/02/23 18:02	79-34-5	
Tetrachloroethene	1950	ug/m3	1.3	0.46	1.87		03/02/23 18:02	127-18-4	E
Tetrahydrofuran	<0.35	ug/m3	1.1	0.35	1.87		03/02/23 18:02	109-99-9	
Toluene	1.9	ug/m3	1.4	0.30	1.87		03/02/23 18:02	108-88-3	
1,2,4-Trichlorobenzene	<10.7	ug/m3	14.1	10.7	1.87		03/02/23 18:02	120-82-1	
1,1,1-Trichloroethane	15400	ug/m3	3990	650	3590		03/03/23 13:53	71-55-6	
1,1,2-Trichloroethane	<0.48	ug/m3	1.0	0.48	1.87		03/02/23 18:02	79-00-5	
Trichloroethene	2260	ug/m3	1.0	0.45	1.87		03/02/23 18:02	79-01-6	E
Trichlorofluoromethane	1.5J	ug/m3	2.1	0.38	1.87		03/02/23 18:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	9.1	ug/m3	2.9	0.43	1.87		03/02/23 18:02	76-13-1	
1,2,4-Trimethylbenzene	1.7J	ug/m3	1.9	0.65	1.87		03/02/23 18:02	95-63-6	
1,3,5-Trimethylbenzene	<0.51	ug/m3	1.9	0.51	1.87		03/02/23 18:02	108-67-8	
Vinyl acetate	<0.33	ug/m3	1.3	0.33	1.87		03/02/23 18:02	108-05-4	
Vinyl chloride	0.76	ug/m3	0.49	0.18	1.87		03/02/23 18:02	75-01-4	
m&p-Xylene	2.2J	ug/m3	3.3	0.92	1.87		03/02/23 18:02	179601-23-1	
o-Xylene	0.86J	ug/m3	1.7	0.33	1.87		03/02/23 18:02	95-47-6	

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## ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Sample Project No.: 10643658

**Sample: SS-4**      **Lab ID: 10643658008**      Collected: 02/17/23 10:02      Received: 02/21/23 11:30      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	27.0	ug/m3	7.9	2.9	1.3		03/02/23 18:32	67-64-1	
Benzene	3.9	ug/m3	0.42	0.14	1.3		03/02/23 18:32	71-43-2	
Benzyl chloride	<1.0	ug/m3	3.4	1.0	1.3		03/02/23 18:32	100-44-7	
Bromodichloromethane	<0.42	ug/m3	1.8	0.42	1.3		03/02/23 18:32	75-27-4	
Bromoform	<1.0	ug/m3	6.8	1.0	1.3		03/02/23 18:32	75-25-2	
Bromomethane	<0.38	ug/m3	1.0	0.38	1.3		03/02/23 18:32	74-83-9	
1,3-Butadiene	<0.14	ug/m3	0.58	0.14	1.3		03/02/23 18:32	106-99-0	
2-Butanone (MEK)	3.9	ug/m3	3.9	0.49	1.3		03/02/23 18:32	78-93-3	
Carbon disulfide	0.38J	ug/m3	0.82	0.30	1.3		03/02/23 18:32	75-15-0	
Carbon tetrachloride	<0.54	ug/m3	1.7	0.54	1.3		03/02/23 18:32	56-23-5	
Chlorobenzene	<0.18	ug/m3	1.2	0.18	1.3		03/02/23 18:32	108-90-7	
Chloroethane	0.29J	ug/m3	0.70	0.27	1.3		03/02/23 18:32	75-00-3	
Chloroform	74.4	ug/m3	0.64	0.17	1.3		03/02/23 18:32	67-66-3	
Chloromethane	<0.11	ug/m3	0.55	0.11	1.3		03/02/23 18:32	74-87-3	
Cyclohexane	1.4J	ug/m3	2.3	0.17	1.3		03/02/23 18:32	110-82-7	
Dibromochloromethane	<0.47	ug/m3	2.2	0.47	1.3		03/02/23 18:32	124-48-1	
1,2-Dibromoethane (EDB)	<0.40	ug/m3	1.0	0.40	1.3		03/02/23 18:32	106-93-4	
1,2-Dichlorobenzene	<1.1	ug/m3	4.0	1.1	1.3		03/02/23 18:32	95-50-1	
1,3-Dichlorobenzene	<1.1	ug/m3	4.0	1.1	1.3		03/02/23 18:32	541-73-1	
1,4-Dichlorobenzene	<1.1	ug/m3	4.0	1.1	1.3		03/02/23 18:32	106-46-7	
Dichlorodifluoromethane	363	ug/m3	1.3	0.67	1.3		03/02/23 18:32	75-71-8	E
1,1-Dichloroethane	7.8	ug/m3	1.1	0.14	1.3		03/02/23 18:32	75-34-3	
1,2-Dichloroethane	<0.17	ug/m3	1.1	0.17	1.3		03/02/23 18:32	107-06-2	
1,1-Dichloroethene	3.5	ug/m3	1.0	0.21	1.3		03/02/23 18:32	75-35-4	C8
cis-1,2-Dichloroethene	2.5	ug/m3	1.0	0.28	1.3		03/02/23 18:32	156-59-2	
trans-1,2-Dichloroethene	1.1	ug/m3	1.0	0.54	1.3		03/02/23 18:32	156-60-5	
1,2-Dichloropropane	<0.26	ug/m3	1.2	0.26	1.3		03/02/23 18:32	78-87-5	
cis-1,3-Dichloropropene	<0.85	ug/m3	3.0	0.85	1.3		03/02/23 18:32	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/m3	3.0	1.0	1.3		03/02/23 18:32	10061-02-6	
Dichlorotetrafluoroethane	<0.32	ug/m3	1.8	0.32	1.3		03/02/23 18:32	76-14-2	
Ethanol	30.0	ug/m3	2.5	1.2	1.3		03/02/23 18:32	64-17-5	
Ethyl acetate	0.80J	ug/m3	0.95	0.21	1.3		03/02/23 18:32	141-78-6	
Ethylbenzene	1.3	ug/m3	1.1	0.23	1.3		03/02/23 18:32	100-41-4	
4-Ethyltoluene	0.89J	ug/m3	3.2	0.53	1.3		03/02/23 18:32	622-96-8	
n-Heptane	1.3	ug/m3	1.1	0.17	1.3		03/02/23 18:32	142-82-5	
Hexachloro-1,3-butadiene	<2.3	ug/m3	7.0	2.3	1.3		03/02/23 18:32	87-68-3	
n-Hexane	2.6	ug/m3	0.93	0.30	1.3		03/02/23 18:32	110-54-3	
2-Hexanone	<0.89	ug/m3	5.4	0.89	1.3		03/02/23 18:32	591-78-6	
Methylene Chloride	3.4J	ug/m3	4.6	0.16	1.3		03/02/23 18:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.70	ug/m3	5.4	0.70	1.3		03/02/23 18:32	108-10-1	
Methyl-tert-butyl ether	<0.32	ug/m3	4.8	0.32	1.3		03/02/23 18:32	1634-04-4	
Naphthalene	<2.7	ug/m3	3.5	2.7	1.3		03/02/23 18:32	91-20-3	
2-Propanol	5.2	ug/m3	3.2	1.2	1.3		03/02/23 18:32	67-63-0	
Propylene	<0.46	ug/m3	1.1	0.46	1.3		03/02/23 18:32	115-07-1	
Styrene	0.57J	ug/m3	1.1	0.54	1.3		03/02/23 18:32	100-42-5	

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### ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

Sample: SS-4 Lab ID: 10643658008 Collected: 02/17/23 10:02 Received: 02/21/23 11:30 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	<0.37	ug/m3	1.8	0.37	1.3		03/02/23 18:32	79-34-5	
Tetrachloroethene	229	ug/m3	0.90	0.32	1.3		03/02/23 18:32	127-18-4	
Tetrahydrofuran	<0.24	ug/m3	0.78	0.24	1.3		03/02/23 18:32	109-99-9	
Toluene	5.3	ug/m3	1.0	0.21	1.3		03/02/23 18:32	108-88-3	
1,2,4-Trichlorobenzene	<7.4	ug/m3	9.8	7.4	1.3		03/02/23 18:32	120-82-1	
1,1,1-Trichloroethane	2990	ug/m3	1.4	0.24	1.3		03/02/23 18:32	71-55-6	E
1,1,2-Trichloroethane	0.90	ug/m3	0.72	0.34	1.3		03/02/23 18:32	79-00-5	
Trichloroethene	9150	ug/m3	1360	597	2496		03/03/23 13:26	79-01-6	
Trichlorofluoromethane	1.6	ug/m3	1.5	0.26	1.3		03/02/23 18:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.74J	ug/m3	2.0	0.30	1.3		03/02/23 18:32	76-13-1	
1,2,4-Trimethylbenzene	1.8	ug/m3	1.3	0.46	1.3		03/02/23 18:32	95-63-6	
1,3,5-Trimethylbenzene	0.50J	ug/m3	1.3	0.36	1.3		03/02/23 18:32	108-67-8	
Vinyl acetate	<0.23	ug/m3	0.93	0.23	1.3		03/02/23 18:32	108-05-4	
Vinyl chloride	<0.12	ug/m3	0.34	0.12	1.3		03/02/23 18:32	75-01-4	
m&p-Xylene	4.0	ug/m3	2.3	0.64	1.3		03/02/23 18:32	179601-23-1	
o-Xylene	1.8	ug/m3	1.1	0.23	1.3		03/02/23 18:32	95-47-6	

Sample: SS-5 Lab ID: 10643658009 Collected: 02/17/23 10:04 Received: 02/21/23 11:30 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	29.9	ug/m3	12.9	4.7	2.13		03/02/23 21:57	67-64-1	
Benzene	2.1	ug/m3	0.69	0.23	2.13		03/02/23 21:57	71-43-2	
Benzyl chloride	<1.6	ug/m3	5.6	1.6	2.13		03/02/23 21:57	100-44-7	
Bromodichloromethane	<0.68	ug/m3	2.9	0.68	2.13		03/02/23 21:57	75-27-4	
Bromoform	<1.7	ug/m3	11.2	1.7	2.13		03/02/23 21:57	75-25-2	
Bromomethane	<0.63	ug/m3	1.7	0.63	2.13		03/02/23 21:57	74-83-9	
1,3-Butadiene	<0.24	ug/m3	0.96	0.24	2.13		03/02/23 21:57	106-99-0	
2-Butanone (MEK)	3.0J	ug/m3	6.4	0.80	2.13		03/02/23 21:57	78-93-3	
Carbon disulfide	0.74J	ug/m3	1.3	0.50	2.13		03/02/23 21:57	75-15-0	
Carbon tetrachloride	<0.89	ug/m3	2.7	0.89	2.13		03/02/23 21:57	56-23-5	
Chlorobenzene	<0.30	ug/m3	2.0	0.30	2.13		03/02/23 21:57	108-90-7	
Chloroethane	<0.44	ug/m3	1.1	0.44	2.13		03/02/23 21:57	75-00-3	
Chloroform	9.2	ug/m3	1.1	0.29	2.13		03/02/23 21:57	67-66-3	
Chloromethane	<0.19	ug/m3	0.89	0.19	2.13		03/02/23 21:57	74-87-3	
Cyclohexane	1.2J	ug/m3	3.7	0.29	2.13		03/02/23 21:57	110-82-7	
Dibromochloromethane	<0.77	ug/m3	3.7	0.77	2.13		03/02/23 21:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.66	ug/m3	1.7	0.66	2.13		03/02/23 21:57	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/m3	6.5	1.8	2.13		03/02/23 21:57	95-50-1	
1,3-Dichlorobenzene	<1.8	ug/m3	6.5	1.8	2.13		03/02/23 21:57	541-73-1	
1,4-Dichlorobenzene	<1.7	ug/m3	6.5	1.7	2.13		03/02/23 21:57	106-46-7	

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## ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

**Sample: SS-5**      **Lab ID: 10643658009**      Collected: 02/17/23 10:04      Received: 02/21/23 11:30      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	262	ug/m3	2.2	1.1	2.13		03/02/23 21:57	75-71-8	
1,1-Dichloroethane	3.1	ug/m3	1.8	0.23	2.13		03/02/23 21:57	75-34-3	
1,2-Dichloroethane	<0.27	ug/m3	1.8	0.27	2.13		03/02/23 21:57	107-06-2	
1,1-Dichloroethene	9.0	ug/m3	1.7	0.35	2.13		03/02/23 21:57	75-35-4	
cis-1,2-Dichloroethene	0.88J	ug/m3	1.7	0.46	2.13		03/02/23 21:57	156-59-2	
trans-1,2-Dichloroethene	<0.88	ug/m3	1.7	0.88	2.13		03/02/23 21:57	156-60-5	
1,2-Dichloropropane	<0.43	ug/m3	2.0	0.43	2.13		03/02/23 21:57	78-87-5	
cis-1,3-Dichloropropene	<1.4	ug/m3	4.9	1.4	2.13		03/02/23 21:57	10061-01-5	
trans-1,3-Dichloropropene	<1.7	ug/m3	4.9	1.7	2.13		03/02/23 21:57	10061-02-6	
Dichlorotetrafluoroethane	<0.52	ug/m3	3.0	0.52	2.13		03/02/23 21:57	76-14-2	
Ethanol	51.8	ug/m3	4.1	1.9	2.13		03/02/23 21:57	64-17-5	
Ethyl acetate	<0.34	ug/m3	1.6	0.34	2.13		03/02/23 21:57	141-78-6	
Ethylbenzene	0.53J	ug/m3	1.9	0.38	2.13		03/02/23 21:57	100-41-4	
4-Ethyltoluene	<0.87	ug/m3	5.3	0.87	2.13		03/02/23 21:57	622-96-8	
n-Heptane	0.42J	ug/m3	1.8	0.27	2.13		03/02/23 21:57	142-82-5	
Hexachloro-1,3-butadiene	<3.7	ug/m3	11.5	3.7	2.13		03/02/23 21:57	87-68-3	
n-Hexane	0.97J	ug/m3	1.5	0.49	2.13		03/02/23 21:57	110-54-3	
2-Hexanone	<1.5	ug/m3	8.9	1.5	2.13		03/02/23 21:57	591-78-6	
Methylene Chloride	<0.27	ug/m3	7.5	0.27	2.13		03/02/23 21:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.1	ug/m3	8.9	1.1	2.13		03/02/23 21:57	108-10-1	
Methyl-tert-butyl ether	<0.53	ug/m3	7.8	0.53	2.13		03/02/23 21:57	1634-04-4	
Naphthalene	<4.5	ug/m3	5.7	4.5	2.13		03/02/23 21:57	91-20-3	
2-Propanol	5.1J	ug/m3	5.3	2.0	2.13		03/02/23 21:57	67-63-0	
Propylene	<0.76	ug/m3	1.9	0.76	2.13		03/02/23 21:57	115-07-1	
Styrene	<0.88	ug/m3	1.8	0.88	2.13		03/02/23 21:57	100-42-5	
1,1,2,2-Tetrachloroethane	<0.61	ug/m3	3.0	0.61	2.13		03/02/23 21:57	79-34-5	
Tetrachloroethene	82.4	ug/m3	1.5	0.53	2.13		03/02/23 21:57	127-18-4	
Tetrahydrofuran	0.45J	ug/m3	1.3	0.40	2.13		03/02/23 21:57	109-99-9	
Toluene	3.9	ug/m3	1.6	0.35	2.13		03/02/23 21:57	108-88-3	
1,2,4-Trichlorobenzene	<12.2	ug/m3	16.1	12.2	2.13		03/02/23 21:57	120-82-1	
1,1,1-Trichloroethane	2660	ug/m3	566	92.3	510		03/03/23 14:20	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/m3	1.2	0.55	2.13		03/02/23 21:57	79-00-5	
Trichloroethene	6520	ug/m3	278	122	510		03/03/23 14:20	79-01-6	
Trichlorofluoromethane	1.5J	ug/m3	2.4	0.43	2.13		03/02/23 21:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.90J	ug/m3	3.3	0.49	2.13		03/02/23 21:57	76-13-1	
1,2,4-Trimethylbenzene	<0.75	ug/m3	2.1	0.75	2.13		03/02/23 21:57	95-63-6	
1,3,5-Trimethylbenzene	<0.58	ug/m3	2.1	0.58	2.13		03/02/23 21:57	108-67-8	
Vinyl acetate	<0.37	ug/m3	1.5	0.37	2.13		03/02/23 21:57	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.55	0.20	2.13		03/02/23 21:57	75-01-4	
m&p-Xylene	1.5J	ug/m3	3.8	1.0	2.13		03/02/23 21:57	179601-23-1	
o-Xylene	0.47J	ug/m3	1.9	0.38	2.13		03/02/23 21:57	95-47-6	

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## ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Sample Project No.: 10643658

**Sample: SS-6**      **Lab ID: 10643658010**      Collected: 02/17/23 10:06      Received: 02/21/23 11:30      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	5.2J	ug/m3	9.7	3.6	1.61		03/02/23 22:55	67-64-1	
Benzene	0.51J	ug/m3	0.52	0.18	1.61		03/02/23 22:55	71-43-2	
Benzyl chloride	<1.2	ug/m3	4.2	1.2	1.61		03/02/23 22:55	100-44-7	
Bromodichloromethane	<0.52	ug/m3	2.2	0.52	1.61		03/02/23 22:55	75-27-4	
Bromoform	<1.3	ug/m3	8.5	1.3	1.61		03/02/23 22:55	75-25-2	
Bromomethane	<0.48	ug/m3	1.3	0.48	1.61		03/02/23 22:55	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.72	0.18	1.61		03/02/23 22:55	106-99-0	
2-Butanone (MEK)	2.1J	ug/m3	4.8	0.60	1.61		03/02/23 22:55	78-93-3	
Carbon disulfide	<0.38	ug/m3	1.0	0.38	1.61		03/02/23 22:55	75-15-0	
Carbon tetrachloride	<0.67	ug/m3	2.1	0.67	1.61		03/02/23 22:55	56-23-5	
Chlorobenzene	<0.22	ug/m3	1.5	0.22	1.61		03/02/23 22:55	108-90-7	
Chloroethane	<0.33	ug/m3	0.86	0.33	1.61		03/02/23 22:55	75-00-3	
Chloroform	0.73J	ug/m3	0.80	0.22	1.61		03/02/23 22:55	67-66-3	
Chloromethane	<0.14	ug/m3	0.68	0.14	1.61		03/02/23 22:55	74-87-3	
Cyclohexane	0.26J	ug/m3	2.8	0.22	1.61		03/02/23 22:55	110-82-7	
Dibromochloromethane	<0.58	ug/m3	2.8	0.58	1.61		03/02/23 22:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.50	ug/m3	1.3	0.50	1.61		03/02/23 22:55	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/m3	4.9	1.4	1.61		03/02/23 22:55	95-50-1	
1,3-Dichlorobenzene	<1.3	ug/m3	4.9	1.3	1.61		03/02/23 22:55	541-73-1	
1,4-Dichlorobenzene	<1.3	ug/m3	4.9	1.3	1.61		03/02/23 22:55	106-46-7	
Dichlorodifluoromethane	14.6	ug/m3	1.6	0.83	1.61		03/02/23 22:55	75-71-8	
1,1-Dichloroethane	3.0	ug/m3	1.3	0.17	1.61		03/02/23 22:55	75-34-3	
1,2-Dichloroethane	<0.20	ug/m3	1.3	0.20	1.61		03/02/23 22:55	107-06-2	
1,1-Dichloroethene	27.5	ug/m3	1.3	0.26	1.61		03/02/23 22:55	75-35-4	
cis-1,2-Dichloroethene	<0.34	ug/m3	1.3	0.34	1.61		03/02/23 22:55	156-59-2	
trans-1,2-Dichloroethene	<0.67	ug/m3	1.3	0.67	1.61		03/02/23 22:55	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.5	0.32	1.61		03/02/23 22:55	78-87-5	
cis-1,3-Dichloropropene	<1.1	ug/m3	3.7	1.1	1.61		03/02/23 22:55	10061-01-5	
trans-1,3-Dichloropropene	<1.3	ug/m3	3.7	1.3	1.61		03/02/23 22:55	10061-02-6	
Dichlorotetrafluoroethane	<0.39	ug/m3	2.3	0.39	1.61		03/02/23 22:55	76-14-2	
Ethanol	9.1	ug/m3	3.1	1.5	1.61		03/02/23 22:55	64-17-5	
Ethyl acetate	<0.26	ug/m3	1.2	0.26	1.61		03/02/23 22:55	141-78-6	
Ethylbenzene	0.36J	ug/m3	1.4	0.29	1.61		03/02/23 22:55	100-41-4	
4-Ethyltoluene	0.96J	ug/m3	4.0	0.66	1.61		03/02/23 22:55	622-96-8	
n-Heptane	<0.21	ug/m3	1.3	0.21	1.61		03/02/23 22:55	142-82-5	
Hexachloro-1,3-butadiene	<2.8	ug/m3	8.7	2.8	1.61		03/02/23 22:55	87-68-3	
n-Hexane	<0.37	ug/m3	1.2	0.37	1.61		03/02/23 22:55	110-54-3	
2-Hexanone	<1.1	ug/m3	6.7	1.1	1.61		03/02/23 22:55	591-78-6	
Methylene Chloride	5.2J	ug/m3	5.7	0.20	1.61		03/02/23 22:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.87	ug/m3	6.7	0.87	1.61		03/02/23 22:55	108-10-1	
Methyl-tert-butyl ether	<0.40	ug/m3	5.9	0.40	1.61		03/02/23 22:55	1634-04-4	
Naphthalene	<3.4	ug/m3	4.3	3.4	1.61		03/02/23 22:55	91-20-3	
2-Propanol	<1.5	ug/m3	4.0	1.5	1.61		03/02/23 22:55	67-63-0	
Propylene	<0.57	ug/m3	1.4	0.57	1.61		03/02/23 22:55	115-07-1	
Styrene	<0.67	ug/m3	1.4	0.67	1.61		03/02/23 22:55	100-42-5	

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### ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

Sample: **SS-6** Lab ID: **10643658010** Collected: 02/17/23 10:06 Received: 02/21/23 11:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	<0.46	ug/m3	2.3	0.46	1.61		03/02/23 22:55	79-34-5	
Tetrachloroethene	222	ug/m3	1.1	0.40	1.61		03/02/23 22:55	127-18-4	
Tetrahydrofuran	<0.30	ug/m3	0.97	0.30	1.61		03/02/23 22:55	109-99-9	
Toluene	1.2J	ug/m3	1.2	0.26	1.61		03/02/23 22:55	108-88-3	
1,2,4-Trichlorobenzene	<9.2	ug/m3	12.1	9.2	1.61		03/02/23 22:55	120-82-1	
1,1,1-Trichloroethane	2190	ug/m3	107	17.5	96.6		03/03/23 15:41	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/m3	0.89	0.42	1.61		03/02/23 22:55	79-00-5	
Trichloroethene	149	ug/m3	0.88	0.38	1.61		03/02/23 22:55	79-01-6	C8
Trichlorofluoromethane	1.4J	ug/m3	1.8	0.33	1.61		03/02/23 22:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	1.4J	ug/m3	2.5	0.37	1.61		03/02/23 22:55	76-13-1	
1,2,4-Trimethylbenzene	1.6	ug/m3	1.6	0.56	1.61		03/02/23 22:55	95-63-6	
1,3,5-Trimethylbenzene	<0.44	ug/m3	1.6	0.44	1.61		03/02/23 22:55	108-67-8	
Vinyl acetate	<0.28	ug/m3	1.2	0.28	1.61		03/02/23 22:55	108-05-4	
Vinyl chloride	<0.15	ug/m3	0.42	0.15	1.61		03/02/23 22:55	75-01-4	
m&p-Xylene	1.5J	ug/m3	2.8	0.79	1.61		03/02/23 22:55	179601-23-1	
o-Xylene	0.61J	ug/m3	1.4	0.29	1.61		03/02/23 22:55	95-47-6	

Sample: **SS-7** Lab ID: **10643658011** Collected: 02/17/23 14:12 Received: 02/21/23 11:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	41.6	ug/m3	11.3	4.2	1.87		03/02/23 22:26	67-64-1	
Benzene	4.9	ug/m3	0.61	0.21	1.87		03/02/23 22:26	71-43-2	
Benzyl chloride	<1.4	ug/m3	4.9	1.4	1.87		03/02/23 22:26	100-44-7	
Bromodichloromethane	<0.60	ug/m3	2.5	0.60	1.87		03/02/23 22:26	75-27-4	
Bromoform	<1.5	ug/m3	9.8	1.5	1.87		03/02/23 22:26	75-25-2	
Bromomethane	<0.55	ug/m3	1.5	0.55	1.87		03/02/23 22:26	74-83-9	
1,3-Butadiene	<0.21	ug/m3	0.84	0.21	1.87		03/02/23 22:26	106-99-0	
2-Butanone (MEK)	4.7J	ug/m3	5.6	0.70	1.87		03/02/23 22:26	78-93-3	
Carbon disulfide	0.60J	ug/m3	1.2	0.44	1.87		03/02/23 22:26	75-15-0	
Carbon tetrachloride	<0.78	ug/m3	2.4	0.78	1.87		03/02/23 22:26	56-23-5	
Chlorobenzene	<0.26	ug/m3	1.8	0.26	1.87		03/02/23 22:26	108-90-7	
Chloroethane	<0.38	ug/m3	1.0	0.38	1.87		03/02/23 22:26	75-00-3	
Chloroform	2.6	ug/m3	0.93	0.25	1.87		03/02/23 22:26	67-66-3	
Chloromethane	<0.16	ug/m3	0.79	0.16	1.87		03/02/23 22:26	74-87-3	
Cyclohexane	4.7	ug/m3	3.3	0.25	1.87		03/02/23 22:26	110-82-7	
Dibromochloromethane	<0.67	ug/m3	3.2	0.67	1.87		03/02/23 22:26	124-48-1	
1,2-Dibromoethane (EDB)	<0.58	ug/m3	1.5	0.58	1.87		03/02/23 22:26	106-93-4	
1,2-Dichlorobenzene	<1.6	ug/m3	5.7	1.6	1.87		03/02/23 22:26	95-50-1	
1,3-Dichlorobenzene	<1.5	ug/m3	5.7	1.5	1.87		03/02/23 22:26	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	5.7	1.5	1.87		03/02/23 22:26	106-46-7	

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## ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

**Sample: SS-7**      **Lab ID: 10643658011**      Collected: 02/17/23 14:12      Received: 02/21/23 11:30      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	2820	ug/m3	113	57.6	112.2		03/03/23 15:14	75-71-8	
1,1-Dichloroethane	0.85J	ug/m3	1.5	0.20	1.87		03/02/23 22:26	75-34-3	
1,2-Dichloroethane	<0.24	ug/m3	1.5	0.24	1.87		03/02/23 22:26	107-06-2	
1,1-Dichloroethene	1.8	ug/m3	1.5	0.31	1.87		03/02/23 22:26	75-35-4	
cis-1,2-Dichloroethene	<0.40	ug/m3	1.5	0.40	1.87		03/02/23 22:26	156-59-2	
trans-1,2-Dichloroethene	<0.78	ug/m3	1.5	0.78	1.87		03/02/23 22:26	156-60-5	
1,2-Dichloropropane	<0.38	ug/m3	1.8	0.38	1.87		03/02/23 22:26	78-87-5	
cis-1,3-Dichloropropene	<1.2	ug/m3	4.3	1.2	1.87		03/02/23 22:26	10061-01-5	
trans-1,3-Dichloropropene	<1.5	ug/m3	4.3	1.5	1.87		03/02/23 22:26	10061-02-6	
Dichlorotetrafluoroethane	<0.45	ug/m3	2.7	0.45	1.87		03/02/23 22:26	76-14-2	
Ethanol	68.2	ug/m3	3.6	1.7	1.87		03/02/23 22:26	64-17-5	
Ethyl acetate	<0.30	ug/m3	1.4	0.30	1.87		03/02/23 22:26	141-78-6	
Ethylbenzene	5.7	ug/m3	1.7	0.33	1.87		03/02/23 22:26	100-41-4	
4-Ethyltoluene	1.5J	ug/m3	4.7	0.76	1.87		03/02/23 22:26	622-96-8	
n-Heptane	4.8	ug/m3	1.6	0.24	1.87		03/02/23 22:26	142-82-5	
Hexachloro-1,3-butadiene	<3.3	ug/m3	10.1	3.3	1.87		03/02/23 22:26	87-68-3	
n-Hexane	6.2	ug/m3	1.3	0.43	1.87		03/02/23 22:26	110-54-3	
2-Hexanone	1.5J	ug/m3	7.8	1.3	1.87		03/02/23 22:26	591-78-6	
Methylene Chloride	1.0J	ug/m3	6.6	0.23	1.87		03/02/23 22:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/m3	7.8	1.0	1.87		03/02/23 22:26	108-10-1	
Methyl-tert-butyl ether	<0.47	ug/m3	6.8	0.47	1.87		03/02/23 22:26	1634-04-4	
Naphthalene	<3.9	ug/m3	5.0	3.9	1.87		03/02/23 22:26	91-20-3	
2-Propanol	10.4	ug/m3	4.7	1.8	1.87		03/02/23 22:26	67-63-0	
Propylene	<0.67	ug/m3	1.6	0.67	1.87		03/02/23 22:26	115-07-1	
Styrene	0.89J	ug/m3	1.6	0.78	1.87		03/02/23 22:26	100-42-5	
1,1,2,2-Tetrachloroethane	<0.54	ug/m3	2.6	0.54	1.87		03/02/23 22:26	79-34-5	
Tetrachloroethene	87.3	ug/m3	1.3	0.46	1.87		03/02/23 22:26	127-18-4	
Tetrahydrofuran	<0.35	ug/m3	1.1	0.35	1.87		03/02/23 22:26	109-99-9	
Toluene	15.6	ug/m3	1.4	0.30	1.87		03/02/23 22:26	108-88-3	
1,2,4-Trichlorobenzene	<10.7	ug/m3	14.1	10.7	1.87		03/02/23 22:26	120-82-1	
1,1,1-Trichloroethane	1780	ug/m3	125	20.3	112.2		03/03/23 15:14	71-55-6	
1,1,2-Trichloroethane	<0.48	ug/m3	1.0	0.48	1.87		03/02/23 22:26	79-00-5	
Trichloroethene	2590	ug/m3	61.3	26.8	112.2		03/03/23 15:14	79-01-6	
Trichlorofluoromethane	3.0	ug/m3	2.1	0.38	1.87		03/02/23 22:26	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.50J	ug/m3	2.9	0.43	1.87		03/02/23 22:26	76-13-1	
1,2,4-Trimethylbenzene	3.5	ug/m3	1.9	0.65	1.87		03/02/23 22:26	95-63-6	
1,3,5-Trimethylbenzene	1.2J	ug/m3	1.9	0.51	1.87		03/02/23 22:26	108-67-8	
Vinyl acetate	<0.33	ug/m3	1.3	0.33	1.87		03/02/23 22:26	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.49	0.18	1.87		03/02/23 22:26	75-01-4	
m&p-Xylene	9.2	ug/m3	3.3	0.92	1.87		03/02/23 22:26	179601-23-1	
o-Xylene	3.5	ug/m3	1.7	0.33	1.87		03/02/23 22:26	95-47-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

**Sample: SS-8**      **Lab ID: 10643658012**      Collected: 02/17/23 14:45      Received: 02/21/23 11:30      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	58.3	ug/m3	10.8	4.0	1.79		03/02/23 17:32	67-64-1	
Benzene	2.3	ug/m3	0.58	0.20	1.79		03/02/23 17:32	71-43-2	
Benzyl chloride	<1.4	ug/m3	4.7	1.4	1.79		03/02/23 17:32	100-44-7	
Bromodichloromethane	<0.57	ug/m3	2.4	0.57	1.79		03/02/23 17:32	75-27-4	
Bromoform	<1.4	ug/m3	9.4	1.4	1.79		03/02/23 17:32	75-25-2	
Bromomethane	<0.53	ug/m3	1.4	0.53	1.79		03/02/23 17:32	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.81	0.20	1.79		03/02/23 17:32	106-99-0	
2-Butanone (MEK)	6.2	ug/m3	5.4	0.67	1.79		03/02/23 17:32	78-93-3	
Carbon disulfide	0.94J	ug/m3	1.1	0.42	1.79		03/02/23 17:32	75-15-0	
Carbon tetrachloride	<0.75	ug/m3	2.3	0.75	1.79		03/02/23 17:32	56-23-5	
Chlorobenzene	<0.25	ug/m3	1.7	0.25	1.79		03/02/23 17:32	108-90-7	
Chloroethane	<0.37	ug/m3	0.96	0.37	1.79		03/02/23 17:32	75-00-3	
Chloroform	<0.24	ug/m3	0.89	0.24	1.79		03/02/23 17:32	67-66-3	
Chloromethane	<0.16	ug/m3	0.75	0.16	1.79		03/02/23 17:32	74-87-3	
Cyclohexane	2.7J	ug/m3	3.1	0.24	1.79		03/02/23 17:32	110-82-7	
Dibromochloromethane	<0.64	ug/m3	3.1	0.64	1.79		03/02/23 17:32	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.4	0.55	1.79		03/02/23 17:32	106-93-4	
1,2-Dichlorobenzene	<1.5	ug/m3	5.5	1.5	1.79		03/02/23 17:32	95-50-1	
1,3-Dichlorobenzene	<1.5	ug/m3	5.5	1.5	1.79		03/02/23 17:32	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	5.5	1.5	1.79		03/02/23 17:32	106-46-7	
Dichlorodifluoromethane	37700	ug/m3	54.2	27.5	53.7		03/03/23 12:32	75-71-8	E
1,1-Dichloroethane	0.30J	ug/m3	1.5	0.19	1.79		03/02/23 17:32	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	1.5	0.23	1.79		03/02/23 17:32	107-06-2	
1,1-Dichloroethene	0.78J	ug/m3	1.4	0.29	1.79		03/02/23 17:32	75-35-4	
cis-1,2-Dichloroethene	<0.38	ug/m3	1.4	0.38	1.79		03/02/23 17:32	156-59-2	
trans-1,2-Dichloroethene	<0.74	ug/m3	1.4	0.74	1.79		03/02/23 17:32	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.7	0.36	1.79		03/02/23 17:32	78-87-5	
cis-1,3-Dichloropropene	<1.2	ug/m3	4.1	1.2	1.79		03/02/23 17:32	10061-01-5	
trans-1,3-Dichloropropene	<1.4	ug/m3	4.1	1.4	1.79		03/02/23 17:32	10061-02-6	
Dichlorotetrafluoroethane	<0.43	ug/m3	2.5	0.43	1.79		03/02/23 17:32	76-14-2	
Ethanol	76.5	ug/m3	3.4	1.6	1.79		03/02/23 17:32	64-17-5	
Ethyl acetate	<0.29	ug/m3	1.3	0.29	1.79		03/02/23 17:32	141-78-6	
Ethylbenzene	4.0	ug/m3	1.6	0.32	1.79		03/02/23 17:32	100-41-4	
4-Ethyltoluene	1.3J	ug/m3	4.5	0.73	1.79		03/02/23 17:32	622-96-8	
n-Heptane	4.0	ug/m3	1.5	0.23	1.79		03/02/23 17:32	142-82-5	
Hexachloro-1,3-butadiene	<3.2	ug/m3	9.7	3.2	1.79		03/02/23 17:32	87-68-3	
n-Hexane	4.7	ug/m3	1.3	0.42	1.79		03/02/23 17:32	110-54-3	
2-Hexanone	1.5J	ug/m3	7.4	1.2	1.79		03/02/23 17:32	591-78-6	
Methylene Chloride	0.79J	ug/m3	6.3	0.22	1.79		03/02/23 17:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.96	ug/m3	7.4	0.96	1.79		03/02/23 17:32	108-10-1	
Methyl-tert-butyl ether	<0.45	ug/m3	6.6	0.45	1.79		03/02/23 17:32	1634-04-4	
Naphthalene	<3.7	ug/m3	4.8	3.7	1.79		03/02/23 17:32	91-20-3	
2-Propanol	8.4	ug/m3	4.5	1.7	1.79		03/02/23 17:32	67-63-0	
Propylene	7.3	ug/m3	1.6	0.64	1.79		03/02/23 17:32	115-07-1	
Styrene	0.93J	ug/m3	1.6	0.74	1.79		03/02/23 17:32	100-42-5	

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### ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

Sample: **SS-8** Lab ID: **10643658012** Collected: 02/17/23 14:45 Received: 02/21/23 11:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	<0.51	ug/m3	2.5	0.51	1.79		03/02/23 17:32	79-34-5	
Tetrachloroethene	27.5	ug/m3	1.2	0.44	1.79		03/02/23 17:32	127-18-4	
Tetrahydrofuran	<0.33	ug/m3	1.1	0.33	1.79		03/02/23 17:32	109-99-9	
Toluene	11.8	ug/m3	1.4	0.29	1.79		03/02/23 17:32	108-88-3	
1,2,4-Trichlorobenzene	<10.3	ug/m3	13.5	10.3	1.79		03/02/23 17:32	120-82-1	
1,1,1-Trichloroethane	454	ug/m3	59.6	9.7	53.7		03/03/23 12:32	71-55-6	
1,1,2-Trichloroethane	<0.46	ug/m3	0.99	0.46	1.79		03/02/23 17:32	79-00-5	
Trichloroethene	33.1	ug/m3	0.98	0.43	1.79		03/02/23 17:32	79-01-6	C8
Trichlorofluoromethane	21.5	ug/m3	2.0	0.36	1.79		03/02/23 17:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.41	ug/m3	2.8	0.41	1.79		03/02/23 17:32	76-13-1	
1,2,4-Trimethylbenzene	2.9	ug/m3	1.8	0.63	1.79		03/02/23 17:32	95-63-6	
1,3,5-Trimethylbenzene	0.90J	ug/m3	1.8	0.49	1.79		03/02/23 17:32	108-67-8	
Vinyl acetate	<0.32	ug/m3	1.3	0.32	1.79		03/02/23 17:32	108-05-4	
Vinyl chloride	<0.17	ug/m3	0.47	0.17	1.79		03/02/23 17:32	75-01-4	
m&p-Xylene	6.9	ug/m3	3.2	0.88	1.79		03/02/23 17:32	179601-23-1	
o-Xylene	2.6	ug/m3	1.6	0.32	1.79		03/02/23 17:32	95-47-6	

Sample: **SS-9** Lab ID: **10643658013** Collected: 02/17/23 12:40 Received: 02/21/23 11:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	368	ug/m3	9.5	3.5	1.58		03/02/23 13:07	67-64-1	
Benzene	1.1	ug/m3	0.51	0.17	1.58		03/02/23 13:07	71-43-2	
Benzyl chloride	<1.2	ug/m3	4.2	1.2	1.58		03/02/23 13:07	100-44-7	
Bromodichloromethane	<0.51	ug/m3	2.1	0.51	1.58		03/02/23 13:07	75-27-4	
Bromoform	<1.2	ug/m3	8.3	1.2	1.58		03/02/23 13:07	75-25-2	
Bromomethane	<0.47	ug/m3	1.2	0.47	1.58		03/02/23 13:07	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.71	0.18	1.58		03/02/23 13:07	106-99-0	
2-Butanone (MEK)	18.3	ug/m3	4.7	0.59	1.58		03/02/23 13:07	78-93-3	
Carbon disulfide	3.9	ug/m3	1.0	0.37	1.58		03/02/23 13:07	75-15-0	
Carbon tetrachloride	<0.66	ug/m3	2.0	0.66	1.58		03/02/23 13:07	56-23-5	
Chlorobenzene	<0.22	ug/m3	1.5	0.22	1.58		03/02/23 13:07	108-90-7	
Chloroethane	<0.32	ug/m3	0.85	0.32	1.58		03/02/23 13:07	75-00-3	
Chloroform	0.80	ug/m3	0.78	0.21	1.58		03/02/23 13:07	67-66-3	
Chloromethane	<0.14	ug/m3	0.66	0.14	1.58		03/02/23 13:07	74-87-3	
Cyclohexane	2.2J	ug/m3	2.8	0.21	1.58		03/02/23 13:07	110-82-7	
Dibromochloromethane	<0.57	ug/m3	2.7	0.57	1.58		03/02/23 13:07	124-48-1	
1,2-Dibromoethane (EDB)	<0.49	ug/m3	1.2	0.49	1.58		03/02/23 13:07	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/m3	4.8	1.4	1.58		03/02/23 13:07	95-50-1	
1,3-Dichlorobenzene	<1.3	ug/m3	4.8	1.3	1.58		03/02/23 13:07	541-73-1	
1,4-Dichlorobenzene	<1.3	ug/m3	4.8	1.3	1.58		03/02/23 13:07	106-46-7	

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## ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

**Sample: SS-9**      **Lab ID: 10643658013**      Collected: 02/17/23 12:40      Received: 02/21/23 11:30      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	2.8	ug/m3	1.6	0.81	1.58		03/02/23 13:07	75-71-8	
1,1-Dichloroethane	2.9	ug/m3	1.3	0.17	1.58		03/02/23 13:07	75-34-3	
1,2-Dichloroethane	<0.20	ug/m3	1.3	0.20	1.58		03/02/23 13:07	107-06-2	
1,1-Dichloroethene	6.3	ug/m3	1.3	0.26	1.58		03/02/23 13:07	75-35-4	
cis-1,2-Dichloroethene	<0.34	ug/m3	1.3	0.34	1.58		03/02/23 13:07	156-59-2	
trans-1,2-Dichloroethene	<0.66	ug/m3	1.3	0.66	1.58		03/02/23 13:07	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.5	0.32	1.58		03/02/23 13:07	78-87-5	
cis-1,3-Dichloropropene	<1.0	ug/m3	3.6	1.0	1.58		03/02/23 13:07	10061-01-5	
trans-1,3-Dichloropropene	<1.2	ug/m3	3.6	1.2	1.58		03/02/23 13:07	10061-02-6	
Dichlorotetrafluoroethane	<0.38	ug/m3	2.2	0.38	1.58		03/02/23 13:07	76-14-2	
Ethanol	61.0	ug/m3	3.0	1.4	1.58		03/02/23 13:07	64-17-5	
Ethyl acetate	<0.25	ug/m3	1.2	0.25	1.58		03/02/23 13:07	141-78-6	
Ethylbenzene	1.3J	ug/m3	1.4	0.28	1.58		03/02/23 13:07	100-41-4	
4-Ethyltoluene	1.0J	ug/m3	4.0	0.64	1.58		03/02/23 13:07	622-96-8	
n-Heptane	2.8	ug/m3	1.3	0.20	1.58		03/02/23 13:07	142-82-5	
Hexachloro-1,3-butadiene	<2.8	ug/m3	8.6	2.8	1.58		03/02/23 13:07	87-68-3	
n-Hexane	5.3	ug/m3	1.1	0.37	1.58		03/02/23 13:07	110-54-3	
2-Hexanone	1.2J	ug/m3	6.6	1.1	1.58		03/02/23 13:07	591-78-6	
Methylene Chloride	1.5J	ug/m3	5.6	0.20	1.58		03/02/23 13:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	1.3J	ug/m3	6.6	0.85	1.58		03/02/23 13:07	108-10-1	
Methyl-tert-butyl ether	<0.40	ug/m3	5.8	0.40	1.58		03/02/23 13:07	1634-04-4	
Naphthalene	<3.3	ug/m3	4.2	3.3	1.58		03/02/23 13:07	91-20-3	
2-Propanol	11.4	ug/m3	4.0	1.5	1.58		03/02/23 13:07	67-63-0	
Propylene	<0.56	ug/m3	1.4	0.56	1.58		03/02/23 13:07	115-07-1	
Styrene	<0.66	ug/m3	1.4	0.66	1.58		03/02/23 13:07	100-42-5	
1,1,2,2-Tetrachloroethane	<0.45	ug/m3	2.2	0.45	1.58		03/02/23 13:07	79-34-5	
Tetrachloroethene	356	ug/m3	1.1	0.39	1.58		03/02/23 13:07	127-18-4	
Tetrahydrofuran	<0.29	ug/m3	0.95	0.29	1.58		03/02/23 13:07	109-99-9	
Toluene	5.0	ug/m3	1.2	0.26	1.58		03/02/23 13:07	108-88-3	
1,2,4-Trichlorobenzene	<9.1	ug/m3	11.9	9.1	1.58		03/02/23 13:07	120-82-1	
1,1,1-Trichloroethane	846	ug/m3	52.6	8.6	47.4		03/03/23 12:05	71-55-6	
1,1,2-Trichloroethane	<0.41	ug/m3	0.88	0.41	1.58		03/02/23 13:07	79-00-5	
Trichloroethene	323	ug/m3	25.9	11.3	47.4		03/03/23 12:05	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	1.8	0.32	1.58		03/02/23 13:07	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.99J	ug/m3	2.5	0.36	1.58		03/02/23 13:07	76-13-1	
1,2,4-Trimethylbenzene	1.7	ug/m3	1.6	0.55	1.58		03/02/23 13:07	95-63-6	
1,3,5-Trimethylbenzene	<0.43	ug/m3	1.6	0.43	1.58		03/02/23 13:07	108-67-8	
Vinyl acetate	<0.28	ug/m3	1.1	0.28	1.58		03/02/23 13:07	108-05-4	
Vinyl chloride	<0.15	ug/m3	0.41	0.15	1.58		03/02/23 13:07	75-01-4	
m&p-Xylene	3.0	ug/m3	2.8	0.78	1.58		03/02/23 13:07	179601-23-1	
o-Xylene	1.0J	ug/m3	1.4	0.28	1.58		03/02/23 13:07	95-47-6	

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## ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Sample Project No.: 10643658

**Sample: SS-10**      **Lab ID: 10643658014**      Collected: 02/17/23 12:43      Received: 02/21/23 11:30      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Acetone	274	ug/m3	50.7	18.7	8.4		03/12/23 03:10	67-64-1	
Benzene	2.1J	ug/m3	2.7	0.92	8.4		03/12/23 03:10	71-43-2	
Benzyl chloride	<6.5	ug/m3	22.1	6.5	8.4		03/12/23 03:10	100-44-7	
Bromodichloromethane	<2.7	ug/m3	11.4	2.7	8.4		03/12/23 03:10	75-27-4	
Bromoform	<6.5	ug/m3	44.1	6.5	8.4		03/12/23 03:10	75-25-2	
Bromomethane	<2.5	ug/m3	6.6	2.5	8.4		03/12/23 03:10	74-83-9	
1,3-Butadiene	<0.93	ug/m3	3.8	0.93	8.4		03/12/23 03:10	106-99-0	
2-Butanone (MEK)	14.5J	ug/m3	25.2	3.2	8.4		03/12/23 03:10	78-93-3	
Carbon disulfide	<2.0	ug/m3	5.3	2.0	8.4		03/12/23 03:10	75-15-0	
Carbon tetrachloride	<3.5	ug/m3	10.8	3.5	8.4		03/12/23 03:10	56-23-5	
Chlorobenzene	<1.2	ug/m3	7.9	1.2	8.4		03/12/23 03:10	108-90-7	
Chloroethane	<1.7	ug/m3	4.5	1.7	8.4		03/12/23 03:10	75-00-3	
Chloroform	<1.1	ug/m3	4.2	1.1	8.4		03/12/23 03:10	67-66-3	
Chloromethane	<0.74	ug/m3	3.5	0.74	8.4		03/12/23 03:10	74-87-3	
Cyclohexane	7.1J	ug/m3	14.7	1.1	8.4		03/12/23 03:10	110-82-7	
Dibromochloromethane	<3.0	ug/m3	14.5	3.0	8.4		03/12/23 03:10	124-48-1	
1,2-Dibromoethane (EDB)	<2.6	ug/m3	6.6	2.6	8.4		03/12/23 03:10	106-93-4	
1,2-Dichlorobenzene	<7.2	ug/m3	25.7	7.2	8.4		03/12/23 03:10	95-50-1	
1,3-Dichlorobenzene	<6.9	ug/m3	25.7	6.9	8.4		03/12/23 03:10	541-73-1	
1,4-Dichlorobenzene	<6.8	ug/m3	25.7	6.8	8.4		03/12/23 03:10	106-46-7	
Dichlorodifluoromethane	<4.3	ug/m3	8.5	4.3	8.4		03/12/23 03:10	75-71-8	
1,1-Dichloroethane	<0.90	ug/m3	6.9	0.90	8.4		03/12/23 03:10	75-34-3	
1,2-Dichloroethane	<1.1	ug/m3	6.9	1.1	8.4		03/12/23 03:10	107-06-2	
1,1-Dichloroethene	<1.4	ug/m3	6.8	1.4	8.4		03/12/23 03:10	75-35-4	
cis-1,2-Dichloroethene	<1.8	ug/m3	6.8	1.8	8.4		03/12/23 03:10	156-59-2	
trans-1,2-Dichloroethene	<3.5	ug/m3	6.8	3.5	8.4		03/12/23 03:10	156-60-5	
1,2-Dichloropropane	<1.7	ug/m3	7.9	1.7	8.4		03/12/23 03:10	78-87-5	
cis-1,3-Dichloropropene	<5.5	ug/m3	19.4	5.5	8.4		03/12/23 03:10	10061-01-5	
trans-1,3-Dichloropropene	<6.5	ug/m3	19.4	6.5	8.4		03/12/23 03:10	10061-02-6	
Dichlorotetrafluoroethane	<2.0	ug/m3	11.9	2.0	8.4		03/12/23 03:10	76-14-2	
Ethanol	41.0	ug/m3	16.1	7.6	8.4		03/12/23 03:10	64-17-5	
Ethyl acetate	<1.3	ug/m3	6.2	1.3	8.4		03/12/23 03:10	141-78-6	
Ethylbenzene	6.9J	ug/m3	7.4	1.5	8.4		03/12/23 03:10	100-41-4	
4-Ethyltoluene	<3.4	ug/m3	21.0	3.4	8.4		03/12/23 03:10	622-96-8	
n-Heptane	6.6J	ug/m3	7.0	1.1	8.4		03/12/23 03:10	142-82-5	
Hexachloro-1,3-butadiene	<14.8	ug/m3	45.5	14.8	8.4		03/12/23 03:10	87-68-3	
n-Hexane	9.1	ug/m3	6.0	1.9	8.4		03/12/23 03:10	110-54-3	
2-Hexanone	6.7J	ug/m3	34.9	5.8	8.4		03/12/23 03:10	591-78-6	
Methylene Chloride	3.5J	ug/m3	29.7	1.0	8.4		03/12/23 03:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	<4.5	ug/m3	34.9	4.5	8.4		03/12/23 03:10	108-10-1	
Methyl-tert-butyl ether	<2.1	ug/m3	30.7	2.1	8.4		03/12/23 03:10	1634-04-4	
Naphthalene	<17.6	ug/m3	22.3	17.6	8.4		03/12/23 03:10	91-20-3	
2-Propanol	<8.1	ug/m3	21.0	8.1	8.4		03/12/23 03:10	67-63-0	
Propylene	<3.0	ug/m3	7.4	3.0	8.4		03/12/23 03:10	115-07-1	
Styrene	<3.5	ug/m3	7.3	3.5	8.4		03/12/23 03:10	100-42-5	

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### ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Sample Project No.: 10643658

Sample: **SS-10** Lab ID: **10643658014** Collected: 02/17/23 12:43 Received: 02/21/23 11:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	<2.4	ug/m3	11.8	2.4	8.4		03/12/23 03:10	79-34-5	
Tetrachloroethene	29.3	ug/m3	5.8	2.1	8.4		03/12/23 03:10	127-18-4	
Tetrahydrofuran	<1.6	ug/m3	5.0	1.6	8.4		03/12/23 03:10	109-99-9	
Toluene	12.7	ug/m3	6.4	1.4	8.4		03/12/23 03:10	108-88-3	
1,2,4-Trichlorobenzene	<48.1	ug/m3	63.3	48.1	8.4		03/12/23 03:10	120-82-1	
1,1,1-Trichloroethane	278	ug/m3	9.3	1.5	8.4		03/12/23 03:10	71-55-6	
1,1,2-Trichloroethane	<2.2	ug/m3	4.7	2.2	8.4		03/12/23 03:10	79-00-5	
Trichloroethene	290	ug/m3	4.6	2.0	8.4		03/12/23 03:10	79-01-6	
Trichlorofluoromethane	<1.7	ug/m3	9.6	1.7	8.4		03/12/23 03:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	<1.9	ug/m3	13.1	1.9	8.4		03/12/23 03:10	76-13-1	
1,2,4-Trimethylbenzene	4.6J	ug/m3	8.4	2.9	8.4		03/12/23 03:10	95-63-6	
1,3,5-Trimethylbenzene	<2.3	ug/m3	8.4	2.3	8.4		03/12/23 03:10	108-67-8	
Vinyl acetate	<1.5	ug/m3	6.0	1.5	8.4		03/12/23 03:10	108-05-4	
Vinyl chloride	<0.81	ug/m3	2.2	0.81	8.4		03/12/23 03:10	75-01-4	
m&p-Xylene	10J	ug/m3	14.9	4.1	8.4		03/12/23 03:10	179601-23-1	
o-Xylene	<1.5	ug/m3	7.4	1.5	8.4		03/12/23 03:10	95-47-6	

Sample: **SS-11** Lab ID: **10643658015** Collected: 02/17/23 12:47 Received: 02/21/23 11:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	186J	ug/m3	310	114	51.3		03/11/23 06:30	67-64-1	
Benzene	<5.6	ug/m3	16.7	5.6	51.3		03/11/23 06:30	71-43-2	
Benzyl chloride	<39.4	ug/m3	135	39.4	51.3		03/11/23 06:30	100-44-7	
Bromodichloromethane	<16.4	ug/m3	69.8	16.4	51.3		03/11/23 06:30	75-27-4	
Bromoform	<39.9	ug/m3	269	39.9	51.3		03/11/23 06:30	75-25-2	
Bromomethane	<15.2	ug/m3	40.5	15.2	51.3		03/11/23 06:30	74-83-9	
1,3-Butadiene	<5.7	ug/m3	23.1	5.7	51.3		03/11/23 06:30	106-99-0	
2-Butanone (MEK)	28.7J	ug/m3	154	19.2	51.3		03/11/23 06:30	78-93-3	
Carbon disulfide	<12.0	ug/m3	32.5	12.0	51.3		03/11/23 06:30	75-15-0	
Carbon tetrachloride	<21.5	ug/m3	65.7	21.5	51.3		03/11/23 06:30	56-23-5	
Chlorobenzene	<7.1	ug/m3	48.0	7.1	51.3		03/11/23 06:30	108-90-7	
Chloroethane	<10.5	ug/m3	27.5	10.5	51.3		03/11/23 06:30	75-00-3	
Chloroform	<6.9	ug/m3	25.4	6.9	51.3		03/11/23 06:30	67-66-3	
Chloromethane	<4.5	ug/m3	21.5	4.5	51.3		03/11/23 06:30	74-87-3	
Cyclohexane	<6.9	ug/m3	89.8	6.9	51.3		03/11/23 06:30	110-82-7	
Dibromochloromethane	<18.5	ug/m3	88.7	18.5	51.3		03/11/23 06:30	124-48-1	
1,2-Dibromoethane (EDB)	<15.9	ug/m3	40.1	15.9	51.3		03/11/23 06:30	106-93-4	
1,2-Dichlorobenzene	<44.2	ug/m3	157	44.2	51.3		03/11/23 06:30	95-50-1	
1,3-Dichlorobenzene	<42.3	ug/m3	157	42.3	51.3		03/11/23 06:30	541-73-1	
1,4-Dichlorobenzene	<41.6	ug/m3	157	41.6	51.3		03/11/23 06:30	106-46-7	

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## ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

**Sample: SS-11**      **Lab ID: 10643658015**      Collected: 02/17/23 12:47      Received: 02/21/23 11:30      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	<26.3	ug/m3	51.8	26.3	51.3		03/11/23 06:30	75-71-8	
1,1-Dichloroethane	<5.5	ug/m3	42.2	5.5	51.3		03/11/23 06:30	75-34-3	
1,2-Dichloroethane	<6.5	ug/m3	42.2	6.5	51.3		03/11/23 06:30	107-06-2	
1,1-Dichloroethene	<8.4	ug/m3	41.3	8.4	51.3		03/11/23 06:30	75-35-4	
cis-1,2-Dichloroethene	<11.0	ug/m3	41.3	11.0	51.3		03/11/23 06:30	156-59-2	
trans-1,2-Dichloroethene	<21.3	ug/m3	41.3	21.3	51.3		03/11/23 06:30	156-60-5	
1,2-Dichloropropane	<10.3	ug/m3	48.2	10.3	51.3		03/11/23 06:30	78-87-5	
cis-1,3-Dichloropropene	<33.5	ug/m3	119	33.5	51.3		03/11/23 06:30	10061-01-5	
trans-1,3-Dichloropropene	<39.9	ug/m3	119	39.9	51.3		03/11/23 06:30	10061-02-6	
Dichlorotetrafluoroethane	<12.5	ug/m3	72.8	12.5	51.3		03/11/23 06:30	76-14-2	
Ethanol	52.2J	ug/m3	98.5	46.3	51.3		03/11/23 06:30	64-17-5	
Ethyl acetate	<8.2	ug/m3	37.6	8.2	51.3		03/11/23 06:30	141-78-6	
Ethylbenzene	25.6J	ug/m3	45.3	9.2	51.3		03/11/23 06:30	100-41-4	
4-Ethyltoluene	<20.9	ug/m3	128	20.9	51.3		03/11/23 06:30	622-96-8	
n-Heptane	<6.6	ug/m3	42.7	6.6	51.3		03/11/23 06:30	142-82-5	
Hexachloro-1,3-butadiene	<90.3	ug/m3	278	90.3	51.3		03/11/23 06:30	87-68-3	
n-Hexane	<11.9	ug/m3	36.7	11.9	51.3		03/11/23 06:30	110-54-3	
2-Hexanone	<35.3	ug/m3	213	35.3	51.3		03/11/23 06:30	591-78-6	
Methylene Chloride	<6.4	ug/m3	181	6.4	51.3		03/11/23 06:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	<27.6	ug/m3	213	27.6	51.3		03/11/23 06:30	108-10-1	
Methyl-tert-butyl ether	<12.8	ug/m3	188	12.8	51.3		03/11/23 06:30	1634-04-4	
Naphthalene	<107	ug/m3	136	107	51.3		03/11/23 06:30	91-20-3	
2-Propanol	<49.2	ug/m3	128	49.2	51.3		03/11/23 06:30	67-63-0	
Propylene	<18.3	ug/m3	44.9	18.3	51.3		03/11/23 06:30	115-07-1	
Styrene	<21.3	ug/m3	44.4	21.3	51.3		03/11/23 06:30	100-42-5	
1,1,2,2-Tetrachloroethane	<14.7	ug/m3	71.8	14.7	51.3		03/11/23 06:30	79-34-5	
Tetrachloroethene	152	ug/m3	35.3	12.7	51.3		03/11/23 06:30	127-18-4	
Tetrahydrofuran	<9.5	ug/m3	30.8	9.5	51.3		03/11/23 06:30	109-99-9	
Toluene	31.3J	ug/m3	39.3	8.3	51.3		03/11/23 06:30	108-88-3	
1,2,4-Trichlorobenzene	<294	ug/m3	387	294	51.3		03/11/23 06:30	120-82-1	
1,1,1-Trichloroethane	2530	ug/m3	56.9	9.3	51.3		03/11/23 06:30	71-55-6	
1,1,2-Trichloroethane	<13.2	ug/m3	28.5	13.2	51.3		03/11/23 06:30	79-00-5	
Trichloroethene	1780	ug/m3	28.0	12.3	51.3		03/11/23 06:30	79-01-6	
Trichlorofluoromethane	<10.4	ug/m3	58.5	10.4	51.3		03/11/23 06:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	<11.7	ug/m3	80.0	11.7	51.3		03/11/23 06:30	76-13-1	
1,2,4-Trimethylbenzene	<18.0	ug/m3	51.2	18.0	51.3		03/11/23 06:30	95-63-6	
1,3,5-Trimethylbenzene	<14.1	ug/m3	51.2	14.1	51.3		03/11/23 06:30	108-67-8	
Vinyl acetate	<9.0	ug/m3	36.7	9.0	51.3		03/11/23 06:30	108-05-4	
Vinyl chloride	<4.9	ug/m3	13.3	4.9	51.3		03/11/23 06:30	75-01-4	
m&p-Xylene	39.1J	ug/m3	90.8	25.2	51.3		03/11/23 06:30	179601-23-1	
o-Xylene	<9.1	ug/m3	45.3	9.1	51.3		03/11/23 06:30	95-47-6	

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## ANALYTICAL RESULTS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

**Sample: SS-12**      **Lab ID: 10643658016**      Collected: 02/17/23 12:45      Received: 02/21/23 11:30      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.17	ug/m3	1.3	0.17	1.58		03/14/23 00:57	75-34-3	
1,2-Dichloroethane	<0.20	ug/m3	1.3	0.20	1.58		03/14/23 00:57	107-06-2	
1,1-Dichloroethene	2.4	ug/m3	1.3	0.26	1.58		03/14/23 00:57	75-35-4	
cis-1,2-Dichloroethene	<0.34	ug/m3	1.3	0.34	1.58		03/14/23 00:57	156-59-2	
Tetrachloroethene	72.4	ug/m3	1.1	0.39	1.58		03/14/23 00:57	127-18-4	
Trichloroethene	51.8	ug/m3	0.86	0.38	1.58		03/14/23 00:57	79-01-6	
Vinyl chloride	<0.15	ug/m3	0.41	0.15	1.58		03/14/23 00:57	75-01-4	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co  
Pace Project No.: 10643658

QC Batch: 869647 Analysis Method: TO-15  
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
Laboratory: Pace Analytical Services - Minneapolis  
Associated Lab Samples: 10643658001, 10643658002, 10643658003, 10643658004, 10643658005, 10643658006, 10643658007, 10643658008, 10643658009, 10643658010, 10643658011, 10643658012, 10643658013

METHOD BLANK: 4587053 Matrix: Air  
Associated Lab Samples: 10643658001, 10643658002, 10643658003, 10643658004, 10643658005, 10643658006, 10643658007, 10643658008, 10643658009, 10643658010, 10643658011, 10643658012, 10643658013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.18	1.1	03/02/23 08:35	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	1.4	03/02/23 08:35	
1,1,2-Trichloroethane	ug/m3	<0.26	0.56	03/02/23 08:35	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.23	1.6	03/02/23 08:35	
1,1-Dichloroethane	ug/m3	<0.11	0.82	03/02/23 08:35	
1,1-Dichloroethene	ug/m3	<0.16	0.81	03/02/23 08:35	
1,2,4-Trichlorobenzene	ug/m3	<5.7	7.5	03/02/23 08:35	
1,2,4-Trimethylbenzene	ug/m3	<0.35	1.0	03/02/23 08:35	
1,2-Dibromoethane (EDB)	ug/m3	<0.31	0.78	03/02/23 08:35	
1,2-Dichlorobenzene	ug/m3	<0.86	3.1	03/02/23 08:35	
1,2-Dichloroethane	ug/m3	<0.13	0.82	03/02/23 08:35	
1,2-Dichloropropane	ug/m3	<0.20	0.94	03/02/23 08:35	
1,3,5-Trimethylbenzene	ug/m3	<0.27	1.0	03/02/23 08:35	
1,3-Butadiene	ug/m3	<0.11	0.45	03/02/23 08:35	
1,3-Dichlorobenzene	ug/m3	<0.82	3.1	03/02/23 08:35	
1,4-Dichlorobenzene	ug/m3	<0.81	3.1	03/02/23 08:35	
2-Butanone (MEK)	ug/m3	<0.38	3.0	03/02/23 08:35	
2-Hexanone	ug/m3	<0.69	4.2	03/02/23 08:35	
2-Propanol	ug/m3	<0.96	2.5	03/02/23 08:35	
4-Ethyltoluene	ug/m3	<0.41	2.5	03/02/23 08:35	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.54	4.2	03/02/23 08:35	
Acetone	ug/m3	<2.2	6.0	03/02/23 08:35	
Benzene	ug/m3	<0.11	0.32	03/02/23 08:35	
Benzyl chloride	ug/m3	<0.77	2.6	03/02/23 08:35	
Bromodichloromethane	ug/m3	<0.32	1.4	03/02/23 08:35	
Bromoform	ug/m3	<0.78	5.2	03/02/23 08:35	
Bromomethane	ug/m3	<0.30	0.79	03/02/23 08:35	
Carbon disulfide	ug/m3	<0.23	0.63	03/02/23 08:35	
Carbon tetrachloride	ug/m3	<0.42	1.3	03/02/23 08:35	
Chlorobenzene	ug/m3	<0.14	0.94	03/02/23 08:35	
Chloroethane	ug/m3	<0.20	0.54	03/02/23 08:35	
Chloroform	ug/m3	<0.13	0.50	03/02/23 08:35	
Chloromethane	ug/m3	<0.088	0.42	03/02/23 08:35	
cis-1,2-Dichloroethene	ug/m3	<0.21	0.81	03/02/23 08:35	
cis-1,3-Dichloropropene	ug/m3	<0.65	2.3	03/02/23 08:35	
Cyclohexane	ug/m3	<0.13	1.8	03/02/23 08:35	
Dibromochloromethane	ug/m3	<0.36	1.7	03/02/23 08:35	
Dichlorodifluoromethane	ug/m3	<0.51	1.0	03/02/23 08:35	
Dichlorotetrafluoroethane	ug/m3	<0.24	1.4	03/02/23 08:35	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co  
Pace Project No.: 10643658

METHOD BLANK: 4587053

Matrix: Air

Associated Lab Samples: 10643658001, 10643658002, 10643658003, 10643658004, 10643658005, 10643658006, 10643658007, 10643658008, 10643658009, 10643658010, 10643658011, 10643658012, 10643658013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethanol	ug/m3	<0.90	1.9	03/02/23 08:35	
Ethyl acetate	ug/m3	<0.16	0.73	03/02/23 08:35	
Ethylbenzene	ug/m3	<0.18	0.88	03/02/23 08:35	
Hexachloro-1,3-butadiene	ug/m3	<1.8	5.4	03/02/23 08:35	
m&p-Xylene	ug/m3	<0.49	1.8	03/02/23 08:35	
Methyl-tert-butyl ether	ug/m3	<0.25	3.7	03/02/23 08:35	
Methylene Chloride	ug/m3	<0.12	3.5	03/02/23 08:35	
n-Heptane	ug/m3	<0.13	0.83	03/02/23 08:35	
n-Hexane	ug/m3	<0.23	0.72	03/02/23 08:35	
Naphthalene	ug/m3	<2.1	2.7	03/02/23 08:35	
o-Xylene	ug/m3	<0.18	0.88	03/02/23 08:35	
Propylene	ug/m3	<0.36	0.88	03/02/23 08:35	
Styrene	ug/m3	<0.42	0.87	03/02/23 08:35	
Tetrachloroethene	ug/m3	<0.25	0.69	03/02/23 08:35	
Tetrahydrofuran	ug/m3	<0.19	0.60	03/02/23 08:35	
Toluene	ug/m3	<0.16	0.77	03/02/23 08:35	
trans-1,2-Dichloroethene	ug/m3	<0.42	0.81	03/02/23 08:35	
trans-1,3-Dichloropropene	ug/m3	<0.78	2.3	03/02/23 08:35	
Trichloroethene	ug/m3	<0.24	0.55	03/02/23 08:35	
Trichlorofluoromethane	ug/m3	<0.20	1.1	03/02/23 08:35	
Vinyl acetate	ug/m3	<0.18	0.72	03/02/23 08:35	
Vinyl chloride	ug/m3	<0.096	0.26	03/02/23 08:35	

LABORATORY CONTROL SAMPLE: 4587054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58	60.6	104	70-133	
1,1,2,2-Tetrachloroethane	ug/m3	72.8	85.4	117	70-138	
1,1,2-Trichloroethane	ug/m3	58.3	64.9	111	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.2	87.9	108	69-139	
1,1-Dichloroethane	ug/m3	42.5	45.1	106	70-133	
1,1-Dichloroethene	ug/m3	41.9	47.6	113	69-134	
1,2,4-Trichlorobenzene	ug/m3	175	176	100	70-130	
1,2,4-Trimethylbenzene	ug/m3	52.5	56.4	107	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.5	93.7	116	70-135	
1,2-Dichlorobenzene	ug/m3	63.9	68.8	108	70-133	
1,2-Dichloroethane	ug/m3	42.4	46.3	109	70-131	
1,2-Dichloropropane	ug/m3	49.3	53.0	107	70-130	
1,3,5-Trimethylbenzene	ug/m3	52.4	63.8	122	70-135	
1,3-Butadiene	ug/m3	23.9	27.3	114	69-137	
1,3-Dichlorobenzene	ug/m3	64.2	68.3	106	70-136	
1,4-Dichlorobenzene	ug/m3	64.3	68.8	107	70-135	
2-Butanone (MEK)	ug/m3	31.3	30.4	97	70-135	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

LABORATORY CONTROL SAMPLE: 4587054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	43.4	45.8	106	70-130	
2-Propanol	ug/m3	137	150	110	70-130	
4-Ethyltoluene	ug/m3	52.3	56.6	108	70-137	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	51.3	118	70-142	
Acetone	ug/m3	127	131	103	65-131	
Benzene	ug/m3	33.8	36.0	106	70-130	
Benzyl chloride	ug/m3	55.6	57.2	103	70-130	
Bromodichloromethane	ug/m3	71.5	78.1	109	70-132	
Bromoform	ug/m3	110	126	114	70-143	
Bromomethane	ug/m3	41.4	43.7	105	70-133	
Carbon disulfide	ug/m3	33	32.1	98	70-131	
Carbon tetrachloride	ug/m3	66.7	72.9	109	70-135	
Chlorobenzene	ug/m3	49	50.9	104	70-133	
Chloroethane	ug/m3	28.1	31.3	111	64-140	
Chloroform	ug/m3	52.1	53.0	102	70-133	
Chloromethane	ug/m3	22	22.0	100	68-130	
cis-1,2-Dichloroethene	ug/m3	42.1	47.4	113	70-133	
cis-1,3-Dichloropropene	ug/m3	48.2	52.7	109	70-133	
Cyclohexane	ug/m3	36.4	40.5	111	70-134	
Dibromochloromethane	ug/m3	90.6	98.2	108	70-134	
Dichlorodifluoromethane	ug/m3	52.5	52.3	100	70-130	
Dichlorotetrafluoroethane	ug/m3	74.4	74.1	100	70-130	
Ethanol	ug/m3	113	128	114	65-130	
Ethyl acetate	ug/m3	38.4	41.9	109	70-134	
Ethylbenzene	ug/m3	46.2	53.3	115	70-133	
Hexachloro-1,3-butadiene	ug/m3	130	142	109	70-141	
m&p-Xylene	ug/m3	92.4	108	117	70-130	
Methyl-tert-butyl ether	ug/m3	38.3	41.5	108	70-132	
Methylene Chloride	ug/m3	36.8	39.1	106	70-134	
n-Heptane	ug/m3	43.5	48.1	111	69-140	
n-Hexane	ug/m3	37.7	42.9	114	70-137	
Naphthalene	ug/m3	63.9	62.6	98	70-130	
o-Xylene	ug/m3	46	54.3	118	70-132	
Propylene	ug/m3	18.6	18.6	100	69-130	
Styrene	ug/m3	45.3	48.0	106	70-136	
Tetrachloroethene	ug/m3	72	77.4	107	70-139	
Tetrahydrofuran	ug/m3	31.3	35.3	113	70-139	
Toluene	ug/m3	40.2	46.0	114	70-132	
trans-1,2-Dichloroethene	ug/m3	42.3	48.1	114	70-132	
trans-1,3-Dichloropropene	ug/m3	48.4	49.1	102	70-130	
Trichloroethene	ug/m3	57.2	61.0	107	70-132	
Trichlorofluoromethane	ug/m3	60.3	66.3	110	65-139	
Vinyl acetate	ug/m3	38.7	40.4	104	70-131	
Vinyl chloride	ug/m3	27.2	29.4	108	64-136	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

SAMPLE DUPLICATE: 4587719

Parameter	Units	10643658002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.40J	<0.26			25
1,1,2,2-Tetrachloroethane	ug/m3	<0.41	<0.41			25
1,1,2-Trichloroethane	ug/m3	<0.37	<0.37			25
1,1,2-Trichlorotrifluoroethane	ug/m3	0.55J	0.57J			25
1,1-Dichloroethane	ug/m3	<0.15	<0.15			25
1,1-Dichloroethene	ug/m3	<0.24	<0.24			25
1,2,4-Trichlorobenzene	ug/m3	<8.3	<8.3			25
1,2,4-Trimethylbenzene	ug/m3	2.4	2.5	2		25
1,2-Dibromoethane (EDB)	ug/m3	<0.44	<0.44			25
1,2-Dichlorobenzene	ug/m3	1.6J	1.6J			25
1,2-Dichloroethane	ug/m3	<0.18	<0.18			25
1,2-Dichloropropane	ug/m3	<0.29	0.46J			25
1,3,5-Trimethylbenzene	ug/m3	0.90J	0.99J			25
1,3-Butadiene	ug/m3	<0.16	<0.16			25
1,3-Dichlorobenzene	ug/m3	<1.2	<1.2			25
1,4-Dichlorobenzene	ug/m3	<1.2	<1.2			25
2-Butanone (MEK)	ug/m3	6.9	6.7	3		25
2-Hexanone	ug/m3	2.4J	1.1J			25
2-Propanol	ug/m3	30.5	31.0	2		25
4-Ethyltoluene	ug/m3	1.2J	1.2J			25
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.77	<0.77			25
Acetone	ug/m3	179	181	1		25
Benzene	ug/m3	9.4	9.8	4		25
Benzyl chloride	ug/m3	<1.1	<1.1			25
Bromodichloromethane	ug/m3	<0.46	<0.46			25
Bromoform	ug/m3	<1.1	<1.1			25
Bromomethane	ug/m3	<0.43	<0.43			25
Carbon disulfide	ug/m3	0.56J	0.61J			25
Carbon tetrachloride	ug/m3	<0.60	<0.60			25
Chlorobenzene	ug/m3	0.70J	0.74J			25
Chloroethane	ug/m3	1.9	2.1	11		25
Chloroform	ug/m3	<0.19	<0.19			25
Chloromethane	ug/m3	7.7	8.2	5		25
cis-1,2-Dichloroethene	ug/m3	<0.31	<0.31			25
cis-1,3-Dichloropropene	ug/m3	<0.94	<0.94			25
Cyclohexane	ug/m3	5.9	6.1	3		25
Dibromochloromethane	ug/m3	<0.52	<0.52			25
Dichlorodifluoromethane	ug/m3	3.0	3.4	14		25
Dichlorotetrafluoroethane	ug/m3	<0.35	<0.35			25
Ethanol	ug/m3	101	105	4		25
Ethyl acetate	ug/m3	13.0	13.6	4		25
Ethylbenzene	ug/m3	2.7	2.8	5		25
Hexachloro-1,3-butadiene	ug/m3	<2.5	<2.5			25
m&p-Xylene	ug/m3	9.1	9.5	4		25
Methyl-tert-butyl ether	ug/m3	<0.36	<0.36			25
Methylene Chloride	ug/m3	1.2J	1.2J			25
n-Heptane	ug/m3	4.8	4.6	5		25

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

SAMPLE DUPLICATE: 4587719

Parameter	Units	10643658002 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	<0.33	3.4		25	
Naphthalene	ug/m3	<3.0	<3.0		25	
o-Xylene	ug/m3	3.4	3.6	4	25	
Propylene	ug/m3	<0.51	<0.51		25	
Styrene	ug/m3	2.4	2.5	4	25	
Tetrachloroethene	ug/m3	1.5	1.3	19	25	
Tetrahydrofuran	ug/m3	2.4	2.4	1	25	
Toluene	ug/m3	24.4	25.4	4	25	
trans-1,2-Dichloroethene	ug/m3	3.2	3.4	7	25	
trans-1,3-Dichloropropene	ug/m3	<1.1	<1.1		25	
Trichloroethene	ug/m3	2.1	2.3	6	25	
Trichlorofluoromethane	ug/m3	1.1J	1.3J		25	
Vinyl acetate	ug/m3	<0.25	<0.25		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

SAMPLE DUPLICATE: 4587720

Parameter	Units	10643563001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.30	<0.30		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.48	<0.48		25	
1,1,2-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.46J	0.51J		25	
1,1-Dichloroethane	ug/m3	<0.18	<0.18		25	
1,1-Dichloroethene	ug/m3	<0.28	<0.28		25	
1,2,4-Trichlorobenzene	ug/m3	<9.6	<9.6		25	
1,2,4-Trimethylbenzene	ug/m3	1.0J	1.0J		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.52	<0.52		25	
1,2-Dichlorobenzene	ug/m3	<1.4	<1.4		25	
1,2-Dichloroethane	ug/m3	0.31J	0.33J		25	
1,2-Dichloropropane	ug/m3	<0.34	<0.34		25	
1,3,5-Trimethylbenzene	ug/m3	<0.46	<0.46		25	
1,3-Butadiene	ug/m3	<0.19	<0.19		25	
1,3-Dichlorobenzene	ug/m3	<1.4	<1.4		25	
1,4-Dichlorobenzene	ug/m3	<1.4	<1.4		25	
2-Butanone (MEK)	ug/m3	<0.63	2.9J		25	
2-Hexanone	ug/m3	<1.2	<1.2		25	
2-Propanol	ug/m3	35.7	38.4	7	25	
4-Ethyltoluene	ug/m3	<0.68	<0.68		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.90	<0.90		25	
Acetone	ug/m3	34.1	34.9	2	25	
Benzene	ug/m3	0.51J	0.52J		25	
Benzyl chloride	ug/m3	<1.3	<1.3		25	
Bromodichloromethane	ug/m3	<0.54	<0.54		25	
Bromoform	ug/m3	<1.3	<1.3		25	
Bromomethane	ug/m3	<0.50	<0.50		25	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

SAMPLE DUPLICATE: 4587720

Parameter	Units	10643563001 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	<0.39	<0.39		25	
Carbon tetrachloride	ug/m3	<0.70	<0.70		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chloroethane	ug/m3	<0.34	<0.34		25	
Chloroform	ug/m3	2.3	2.4	4	25	
Chloromethane	ug/m3	1.4	1.3	6	25	
cis-1,2-Dichloroethene	ug/m3	<0.36	<0.36		25	
cis-1,3-Dichloropropene	ug/m3	<1.1	<1.1		25	
Cyclohexane	ug/m3	0.57J	0.48J		25	
Dibromochloromethane	ug/m3	<0.60	<0.60		25	
Dichlorodifluoromethane	ug/m3	2.8	2.6	6	25	
Dichlorotetrafluoroethane	ug/m3	<0.41	<0.41		25	
Ethanol	ug/m3	5920	5660	5	25	E
Ethyl acetate	ug/m3	1.8	1.8	4	25	
Ethylbenzene	ug/m3	<0.30	<0.30		25	
Hexachloro-1,3-butadiene	ug/m3	<3.0	<3.0		25	
m&p-Xylene	ug/m3	<0.83	<0.83		25	
Methyl-tert-butyl ether	ug/m3	<0.42	<0.42		25	
Methylene Chloride	ug/m3	0.31J	0.29J		25	
n-Heptane	ug/m3	0.94J	<0.22		25	
n-Hexane	ug/m3	0.59J	0.55J		25	
Naphthalene	ug/m3	<3.5	<3.5		25	
o-Xylene	ug/m3	<0.30	<0.30		25	
Propylene	ug/m3	<0.60	<0.60		25	
Styrene	ug/m3	1.1J	1.1J		25	
Tetrachloroethene	ug/m3	0.52J	<0.42		25	
Tetrahydrofuran	ug/m3	<0.31	<0.31		25	
Toluene	ug/m3	1.1J	1.1J		25	
trans-1,2-Dichloroethene	ug/m3	<0.70	<0.70		25	
trans-1,3-Dichloropropene	ug/m3	<1.3	<1.3		25	
Trichloroethene	ug/m3	0.95	0.47J		25	
Trichlorofluoromethane	ug/m3	1.4J	1.4J		25	
Vinyl acetate	ug/m3	<0.30	<0.30		25	
Vinyl chloride	ug/m3	<0.16	<0.16		25	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

QC Batch: 870743

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10643658015

METHOD BLANK: 4592462

Matrix: Air

Associated Lab Samples: 10643658015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.090	0.56	03/10/23 12:05	
1,1,2,2-Tetrachloroethane	ug/m3	<0.14	0.70	03/10/23 12:05	
1,1,2-Trichloroethane	ug/m3	<0.13	0.28	03/10/23 12:05	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.11	0.78	03/10/23 12:05	
1,1-Dichloroethane	ug/m3	<0.054	0.41	03/10/23 12:05	
1,1-Dichloroethene	ug/m3	<0.082	0.40	03/10/23 12:05	
1,2,4-Trichlorobenzene	ug/m3	<2.9	3.8	03/10/23 12:05	
1,2,4-Trimethylbenzene	ug/m3	<0.18	0.50	03/10/23 12:05	
1,2-Dibromoethane (EDB)	ug/m3	<0.15	0.39	03/10/23 12:05	
1,2-Dichlorobenzene	ug/m3	<0.43	1.5	03/10/23 12:05	
1,2-Dichloroethane	ug/m3	<0.064	0.41	03/10/23 12:05	
1,2-Dichloropropane	ug/m3	<0.10	0.47	03/10/23 12:05	
1,3,5-Trimethylbenzene	ug/m3	<0.14	0.50	03/10/23 12:05	
1,3-Butadiene	ug/m3	<0.056	0.22	03/10/23 12:05	
1,3-Dichlorobenzene	ug/m3	<0.41	1.5	03/10/23 12:05	
1,4-Dichlorobenzene	ug/m3	<0.41	1.5	03/10/23 12:05	
2-Butanone (MEK)	ug/m3	<0.19	1.5	03/10/23 12:05	
2-Hexanone	ug/m3	<0.34	2.1	03/10/23 12:05	
2-Propanol	ug/m3	<0.48	1.2	03/10/23 12:05	
4-Ethyltoluene	ug/m3	<0.20	1.2	03/10/23 12:05	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.27	2.1	03/10/23 12:05	
Acetone	ug/m3	<1.1	3.0	03/10/23 12:05	
Benzene	ug/m3	<0.055	0.16	03/10/23 12:05	
Benzyl chloride	ug/m3	<0.38	1.3	03/10/23 12:05	
Bromodichloromethane	ug/m3	<0.16	0.68	03/10/23 12:05	
Bromoform	ug/m3	<0.39	2.6	03/10/23 12:05	
Bromomethane	ug/m3	<0.15	0.39	03/10/23 12:05	
Carbon disulfide	ug/m3	<0.12	0.32	03/10/23 12:05	
Carbon tetrachloride	ug/m3	<0.21	0.64	03/10/23 12:05	
Chlorobenzene	ug/m3	<0.070	0.47	03/10/23 12:05	
Chloroethane	ug/m3	<0.10	0.27	03/10/23 12:05	
Chloroform	ug/m3	<0.067	0.25	03/10/23 12:05	
Chloromethane	ug/m3	<0.044	0.21	03/10/23 12:05	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	03/10/23 12:05	
cis-1,3-Dichloropropene	ug/m3	<0.33	1.2	03/10/23 12:05	
Cyclohexane	ug/m3	<0.067	0.88	03/10/23 12:05	
Dibromochloromethane	ug/m3	<0.18	0.86	03/10/23 12:05	
Dichlorodifluoromethane	ug/m3	<0.26	0.50	03/10/23 12:05	
Dichlorotetrafluoroethane	ug/m3	<0.12	0.71	03/10/23 12:05	
Ethanol	ug/m3	<0.45	0.96	03/10/23 12:05	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co  
Pace Project No.: 10643658

METHOD BLANK: 4592462 Matrix: Air  
Associated Lab Samples: 10643658015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.080	0.37	03/10/23 12:05	
Ethylbenzene	ug/m3	<0.090	0.44	03/10/23 12:05	
Hexachloro-1,3-butadiene	ug/m3	<0.88	2.7	03/10/23 12:05	
m&p-Xylene	ug/m3	<0.25	0.88	03/10/23 12:05	
Methyl-tert-butyl ether	ug/m3	<0.12	1.8	03/10/23 12:05	
Methylene Chloride	ug/m3	<0.062	1.8	03/10/23 12:05	
n-Heptane	ug/m3	<0.064	0.42	03/10/23 12:05	
n-Hexane	ug/m3	<0.12	0.36	03/10/23 12:05	
Naphthalene	ug/m3	<1.0	1.3	03/10/23 12:05	
o-Xylene	ug/m3	<0.089	0.44	03/10/23 12:05	
Propylene	ug/m3	<0.18	0.44	03/10/23 12:05	
Styrene	ug/m3	<0.21	0.43	03/10/23 12:05	
Tetrachloroethene	ug/m3	0.18J	0.34	03/10/23 12:05	
Tetrahydrofuran	ug/m3	<0.093	0.30	03/10/23 12:05	
Toluene	ug/m3	<0.081	0.38	03/10/23 12:05	
trans-1,2-Dichloroethene	ug/m3	<0.21	0.40	03/10/23 12:05	
trans-1,3-Dichloropropene	ug/m3	<0.39	1.2	03/10/23 12:05	
Trichloroethene	ug/m3	<0.12	0.27	03/10/23 12:05	
Trichlorofluoromethane	ug/m3	<0.10	0.57	03/10/23 12:05	
Vinyl acetate	ug/m3	<0.088	0.36	03/10/23 12:05	
Vinyl chloride	ug/m3	<0.048	0.13	03/10/23 12:05	

LABORATORY CONTROL SAMPLE: 4592463

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58	60.8	105	70-133	
1,1,2,2-Tetrachloroethane	ug/m3	72.8	80.6	111	70-138	
1,1,2-Trichloroethane	ug/m3	58.3	62.8	108	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.2	81.9	101	69-139	
1,1-Dichloroethane	ug/m3	42.5	44.7	105	70-133	
1,1-Dichloroethene	ug/m3	41.9	42.7	102	69-134	
1,2,4-Trichlorobenzene	ug/m3	175	180	103	70-130	
1,2,4-Trimethylbenzene	ug/m3	52.5	56.7	108	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.5	91.5	114	70-135	
1,2-Dichlorobenzene	ug/m3	63.9	68.2	107	70-133	
1,2-Dichloroethane	ug/m3	42.4	45.1	106	70-131	
1,2-Dichloropropane	ug/m3	49.3	51.2	104	70-130	
1,3,5-Trimethylbenzene	ug/m3	52.4	56.2	107	70-135	
1,3-Butadiene	ug/m3	23.9	24.7	103	69-137	
1,3-Dichlorobenzene	ug/m3	64.2	67.8	106	70-136	
1,4-Dichlorobenzene	ug/m3	64.3	68.5	106	70-135	
2-Butanone (MEK)	ug/m3	31.3	36.2	116	70-135	
2-Hexanone	ug/m3	43.4	46.7	108	70-130	
2-Propanol	ug/m3	137	142	104	70-130	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

LABORATORY CONTROL SAMPLE: 4592463

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	52.3	56.0	107	70-137	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	47.7	109	70-142	
Acetone	ug/m3	127	127	100	65-131	
Benzene	ug/m3	33.8	37.4	111	70-130	
Benzyl chloride	ug/m3	55.6	58.9	106	70-130	
Bromodichloromethane	ug/m3	71.5	75.0	105	70-132	
Bromoform	ug/m3	110	125	113	70-143	
Bromomethane	ug/m3	41.4	41.1	99	70-133	
Carbon disulfide	ug/m3	33	34.3	104	70-131	
Carbon tetrachloride	ug/m3	66.7	68.7	103	70-135	
Chlorobenzene	ug/m3	49	52.6	107	70-133	
Chloroethane	ug/m3	28.1	28.8	103	64-140	
Chloroform	ug/m3	52.1	52.8	101	70-133	
Chloromethane	ug/m3	22	22.6	103	68-130	
cis-1,2-Dichloroethene	ug/m3	42.1	45.6	108	70-133	
cis-1,3-Dichloropropene	ug/m3	48.2	52.4	109	70-133	
Cyclohexane	ug/m3	36.4	38.7	106	70-134	
Dibromochloromethane	ug/m3	90.6	95.9	106	70-134	
Dichlorodifluoromethane	ug/m3	52.5	53.0	101	70-130	
Dichlorotetrafluoroethane	ug/m3	74.4	75.4	101	70-130	
Ethanol	ug/m3	113	115	102	65-130	
Ethyl acetate	ug/m3	38.4	43.4	113	70-134	
Ethylbenzene	ug/m3	46.2	49.7	108	70-133	
Hexachloro-1,3-butadiene	ug/m3	130	136	105	70-141	
m&p-Xylene	ug/m3	92.4	99.4	108	70-130	
Methyl-tert-butyl ether	ug/m3	38.3	41.5	108	70-132	
Methylene Chloride	ug/m3	36.8	37.3	101	70-134	
n-Heptane	ug/m3	43.5	49.7	114	69-140	
n-Hexane	ug/m3	37.7	41.3	109	70-137	
Naphthalene	ug/m3	63.9	66.1	103	70-130	
o-Xylene	ug/m3	46	50.4	109	70-132	
Propylene	ug/m3	18.6	20.5	110	69-130	
Styrene	ug/m3	45.3	48.8	108	70-136	
Tetrachloroethene	ug/m3	72	78.5	109	70-139	
Tetrahydrofuran	ug/m3	31.3	33.4	107	70-139	
Toluene	ug/m3	40.2	42.4	105	70-132	
trans-1,2-Dichloroethene	ug/m3	42.3	46.0	109	70-132	
trans-1,3-Dichloropropene	ug/m3	48.4	48.3	100	70-130	
Trichloroethene	ug/m3	57.2	61.1	107	70-132	
Trichlorofluoromethane	ug/m3	60.3	59.9	99	65-139	
Vinyl acetate	ug/m3	38.7	41.7	108	70-131	
Vinyl chloride	ug/m3	27.2	27.8	102	64-136	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

SAMPLE DUPLICATE: 4593330

Parameter	Units	10644450001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.34		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.54		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.48		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.58J		25	
1,1-Dichloroethane	ug/m3	ND	<0.20		25	
1,1-Dichloroethene	ug/m3	ND	<0.31		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<10.7		25	
1,2,4-Trimethylbenzene	ug/m3	ND	1.3J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.58		25	
1,2-Dichlorobenzene	ug/m3	ND	<1.6		25	
1,2-Dichloroethane	ug/m3	ND	<0.24		25	
1,2-Dichloropropane	ug/m3	ND	<0.38		25	
1,3,5-Trimethylbenzene	ug/m3	ND	0.91J		25	
1,3-Butadiene	ug/m3	ND	<0.21		25	
1,3-Dichlorobenzene	ug/m3	ND	<1.5		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.5		25	
2-Butanone (MEK)	ug/m3	ND	3.7J		25	
2-Hexanone	ug/m3	ND	1.7J		25	
2-Propanol	ug/m3	5.1	4.8	7	25	
4-Ethyltoluene	ug/m3	ND	<0.76		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	1.0J		25	
Acetone	ug/m3	13.5	14.5	7	25	
Benzene	ug/m3	0.83	0.88	6	25	
Benzyl chloride	ug/m3	ND	<1.4		25	
Bromodichloromethane	ug/m3	ND	<0.60		25	
Bromoform	ug/m3	ND	<1.5		25	
Bromomethane	ug/m3	ND	<0.55		25	
Carbon disulfide	ug/m3	ND	<0.44		25	
Carbon tetrachloride	ug/m3	ND	<0.78		25	
Chlorobenzene	ug/m3	ND	<0.26		25	
Chloroethane	ug/m3	ND	<0.38		25	
Chloroform	ug/m3	ND	<0.25		25	
Chloromethane	ug/m3	ND	0.62J		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.40		25	
cis-1,3-Dichloropropene	ug/m3	ND	<1.2		25	
Cyclohexane	ug/m3	ND	<0.25		25	
Dibromochloromethane	ug/m3	ND	<0.67		25	
Dichlorodifluoromethane	ug/m3	2.4	2.5	3	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.45		25	
Ethanol	ug/m3	39.6	42.5	7	25	
Ethyl acetate	ug/m3	ND	<0.30		25	
Ethylbenzene	ug/m3	1.7	1.7	2	25	
Hexachloro-1,3-butadiene	ug/m3	ND	<3.3		25	
m&p-Xylene	ug/m3	4.1	4.2	3	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.47		25	
Methylene Chloride	ug/m3	ND	0.40J		25	
n-Heptane	ug/m3	ND	<0.24		25	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

SAMPLE DUPLICATE: 4593330

Parameter	Units	10644450001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	0.46J		25	
Naphthalene	ug/m3	ND	<3.9		25	
o-Xylene	ug/m3	ND	0.93J		25	
Propylene	ug/m3	ND	<0.67		25	
Styrene	ug/m3	ND	1.3J		25	
Tetrachloroethene	ug/m3	ND	<0.46		25	
Tetrahydrofuran	ug/m3	ND	0.81J		25	
Toluene	ug/m3	2.8	2.9	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.78		25	
trans-1,3-Dichloropropene	ug/m3	ND	<1.5		25	
Trichloroethene	ug/m3	ND	<0.45		25	
Trichlorofluoromethane	ug/m3	ND	1.5J		25	
Vinyl acetate	ug/m3	ND	<0.33		25	
Vinyl chloride	ug/m3	ND	<0.18		25	

SAMPLE DUPLICATE: 4593331

Parameter	Units	10644450002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.33		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.52		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.46		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.55J		25	
1,1-Dichloroethane	ug/m3	ND	<0.19		25	
1,1-Dichloroethene	ug/m3	ND	<0.30		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<10.3		25	
1,2,4-Trimethylbenzene	ug/m3	ND	1.5J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.56		25	
1,2-Dichlorobenzene	ug/m3	ND	<1.6		25	
1,2-Dichloroethane	ug/m3	ND	<0.23		25	
1,2-Dichloropropane	ug/m3	ND	<0.36		25	
1,3,5-Trimethylbenzene	ug/m3	ND	0.90J		25	
1,3-Butadiene	ug/m3	ND	<0.20		25	
1,3-Dichlorobenzene	ug/m3	ND	<1.5		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.5		25	
2-Butanone (MEK)	ug/m3	5.6	5.7	2	25	
2-Hexanone	ug/m3	ND	2.1J		25	
2-Propanol	ug/m3	ND	4.3J		25	
4-Ethyltoluene	ug/m3	ND	1.2J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	1.2J		25	
Acetone	ug/m3	12.5	12.4	0	25	
Benzene	ug/m3	1.1	1.1	3	25	
Benzyl chloride	ug/m3	ND	<1.4		25	
Bromodichloromethane	ug/m3	ND	<0.58		25	
Bromoform	ug/m3	ND	<1.4		25	
Bromomethane	ug/m3	ND	<0.53		25	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

SAMPLE DUPLICATE: 4593331

Parameter	Units	10644450002 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	0.45J		25	
Carbon tetrachloride	ug/m3	ND	<0.75		25	
Chlorobenzene	ug/m3	ND	<0.25		25	
Chloroethane	ug/m3	ND	<0.37		25	
Chloroform	ug/m3	ND	<0.24		25	
Chloromethane	ug/m3	ND	0.37J		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.39		25	
cis-1,3-Dichloropropene	ug/m3	ND	<1.2		25	
Cyclohexane	ug/m3	ND	<0.24		25	
Dibromochloromethane	ug/m3	ND	<0.65		25	
Dichlorodifluoromethane	ug/m3	2.5	2.3	10	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.44		25	
Ethanol	ug/m3	30.0	29.8	1	25	
Ethyl acetate	ug/m3	ND	<0.29		25	
Ethylbenzene	ug/m3	1.8	1.8	1	25	
Hexachloro-1,3-butadiene	ug/m3	ND	<3.2		25	
m&p-Xylene	ug/m3	4.6	4.6	1	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.45		25	
Methylene Chloride	ug/m3	ND	<0.22		25	
n-Heptane	ug/m3	ND	<0.23		25	
n-Hexane	ug/m3	ND	<0.42		25	
Naphthalene	ug/m3	ND	<3.8		25	
o-Xylene	ug/m3	ND	1.2J		25	
Propylene	ug/m3	ND	<0.64		25	
Styrene	ug/m3	ND	1.4J		25	
Tetrachloroethene	ug/m3	2.6	2.5	4	25	
Tetrahydrofuran	ug/m3	ND	0.67J		25	
Toluene	ug/m3	2.6	2.6	2	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.75		25	
trans-1,3-Dichloropropene	ug/m3	ND	<1.4		25	
Trichloroethene	ug/m3	3.0	2.8	7	25	
Trichlorofluoromethane	ug/m3	ND	1.4J		25	
Vinyl acetate	ug/m3	ND	<0.32		25	
Vinyl chloride	ug/m3	ND	<0.17		25	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

QC Batch: 870869

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10643658014

METHOD BLANK: 4593272

Matrix: Air

Associated Lab Samples: 10643658014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.090	0.56	03/11/23 12:27	
1,1,2,2-Tetrachloroethane	ug/m3	<0.14	0.70	03/11/23 12:27	
1,1,2-Trichloroethane	ug/m3	<0.13	0.28	03/11/23 12:27	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.11	0.78	03/11/23 12:27	
1,1-Dichloroethane	ug/m3	<0.054	0.41	03/11/23 12:27	
1,1-Dichloroethene	ug/m3	<0.082	0.40	03/11/23 12:27	
1,2,4-Trichlorobenzene	ug/m3	<2.9	3.8	03/11/23 12:27	
1,2,4-Trimethylbenzene	ug/m3	<0.18	0.50	03/11/23 12:27	
1,2-Dibromoethane (EDB)	ug/m3	<0.15	0.39	03/11/23 12:27	
1,2-Dichlorobenzene	ug/m3	<0.43	1.5	03/11/23 12:27	
1,2-Dichloroethane	ug/m3	<0.064	0.41	03/11/23 12:27	
1,2-Dichloropropane	ug/m3	<0.10	0.47	03/11/23 12:27	
1,3,5-Trimethylbenzene	ug/m3	<0.14	0.50	03/11/23 12:27	
1,3-Butadiene	ug/m3	<0.056	0.22	03/11/23 12:27	
1,3-Dichlorobenzene	ug/m3	<0.41	1.5	03/11/23 12:27	
1,4-Dichlorobenzene	ug/m3	<0.41	1.5	03/11/23 12:27	
2-Butanone (MEK)	ug/m3	<0.19	1.5	03/11/23 12:27	
2-Hexanone	ug/m3	<0.34	2.1	03/11/23 12:27	
2-Propanol	ug/m3	<0.48	1.2	03/11/23 12:27	
4-Ethyltoluene	ug/m3	<0.20	1.2	03/11/23 12:27	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.27	2.1	03/11/23 12:27	
Acetone	ug/m3	<1.1	3.0	03/11/23 12:27	
Benzene	ug/m3	<0.055	0.16	03/11/23 12:27	
Benzyl chloride	ug/m3	0.43J	1.3	03/11/23 12:27	
Bromodichloromethane	ug/m3	<0.16	0.68	03/11/23 12:27	
Bromoform	ug/m3	<0.39	2.6	03/11/23 12:27	
Bromomethane	ug/m3	<0.15	0.39	03/11/23 12:27	
Carbon disulfide	ug/m3	<0.12	0.32	03/11/23 12:27	
Carbon tetrachloride	ug/m3	<0.21	0.64	03/11/23 12:27	
Chlorobenzene	ug/m3	<0.070	0.47	03/11/23 12:27	
Chloroethane	ug/m3	<0.10	0.27	03/11/23 12:27	
Chloroform	ug/m3	<0.067	0.25	03/11/23 12:27	
Chloromethane	ug/m3	<0.044	0.21	03/11/23 12:27	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	03/11/23 12:27	
cis-1,3-Dichloropropene	ug/m3	<0.33	1.2	03/11/23 12:27	
Cyclohexane	ug/m3	<0.067	0.88	03/11/23 12:27	
Dibromochloromethane	ug/m3	<0.18	0.86	03/11/23 12:27	
Dichlorodifluoromethane	ug/m3	<0.26	0.50	03/11/23 12:27	
Dichlorotetrafluoroethane	ug/m3	<0.12	0.71	03/11/23 12:27	
Ethanol	ug/m3	<0.45	0.96	03/11/23 12:27	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co  
Pace Project No.: 10643658

METHOD BLANK: 4593272 Matrix: Air  
Associated Lab Samples: 10643658014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.080	0.37	03/11/23 12:27	
Ethylbenzene	ug/m3	<0.090	0.44	03/11/23 12:27	
Hexachloro-1,3-butadiene	ug/m3	<0.88	2.7	03/11/23 12:27	
m&p-Xylene	ug/m3	<0.25	0.88	03/11/23 12:27	
Methyl-tert-butyl ether	ug/m3	<0.12	1.8	03/11/23 12:27	
Methylene Chloride	ug/m3	<0.062	1.8	03/11/23 12:27	
n-Heptane	ug/m3	<0.064	0.42	03/11/23 12:27	
n-Hexane	ug/m3	<0.12	0.36	03/11/23 12:27	
Naphthalene	ug/m3	<1.0	1.3	03/11/23 12:27	
o-Xylene	ug/m3	<0.089	0.44	03/11/23 12:27	
Propylene	ug/m3	<0.18	0.44	03/11/23 12:27	
Styrene	ug/m3	<0.21	0.43	03/11/23 12:27	
Tetrachloroethene	ug/m3	<0.12	0.34	03/11/23 12:27	
Tetrahydrofuran	ug/m3	<0.093	0.30	03/11/23 12:27	
Toluene	ug/m3	0.20J	0.38	03/11/23 12:27	
trans-1,2-Dichloroethene	ug/m3	<0.21	0.40	03/11/23 12:27	
trans-1,3-Dichloropropene	ug/m3	<0.39	1.2	03/11/23 12:27	
Trichloroethene	ug/m3	<0.12	0.27	03/11/23 12:27	
Trichlorofluoromethane	ug/m3	<0.10	0.57	03/11/23 12:27	
Vinyl acetate	ug/m3	<0.088	0.36	03/11/23 12:27	
Vinyl chloride	ug/m3	<0.048	0.13	03/11/23 12:27	

LABORATORY CONTROL SAMPLE: 4593273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58	62.6	108	70-133	
1,1,2,2-Tetrachloroethane	ug/m3	72.8	84.7	116	70-138	
1,1,2-Trichloroethane	ug/m3	58.3	64.9	111	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.2	85.4	105	69-139	
1,1-Dichloroethane	ug/m3	42.5	46.2	109	70-133	
1,1-Dichloroethene	ug/m3	41.9	44.4	106	69-134	
1,2,4-Trichlorobenzene	ug/m3	175	190	108	70-130	
1,2,4-Trimethylbenzene	ug/m3	52.5	59.1	113	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.5	95.9	119	70-135	
1,2-Dichlorobenzene	ug/m3	63.9	71.4	112	70-133	
1,2-Dichloroethane	ug/m3	42.4	46.4	109	70-131	
1,2-Dichloropropane	ug/m3	49.3	53.1	108	70-130	
1,3,5-Trimethylbenzene	ug/m3	52.4	58.4	112	70-135	
1,3-Butadiene	ug/m3	23.9	25.4	106	69-137	
1,3-Dichlorobenzene	ug/m3	64.2	71.7	112	70-136	
1,4-Dichlorobenzene	ug/m3	64.3	72.4	113	70-135	
2-Butanone (MEK)	ug/m3	31.3	37.1	119	70-135	
2-Hexanone	ug/m3	43.4	48.1	111	70-130	
2-Propanol	ug/m3	137	146	106	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

LABORATORY CONTROL SAMPLE: 4593273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	52.3	58.7	112	70-137	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	48.5	111	70-142	
Acetone	ug/m3	127	130	102	65-131	
Benzene	ug/m3	33.8	38.4	114	70-130	
Benzyl chloride	ug/m3	55.6	61.7	111	70-130	
Bromodichloromethane	ug/m3	71.5	77.6	108	70-132	
Bromoform	ug/m3	110	131	119	70-143	
Bromomethane	ug/m3	41.4	42.5	103	70-133	
Carbon disulfide	ug/m3	33	35.4	107	70-131	
Carbon tetrachloride	ug/m3	66.7	70.8	106	70-135	
Chlorobenzene	ug/m3	49	55.3	113	70-133	
Chloroethane	ug/m3	28.1	29.5	105	64-140	
Chloroform	ug/m3	52.1	54.7	105	70-133	
Chloromethane	ug/m3	22	22.9	104	68-130	
cis-1,2-Dichloroethene	ug/m3	42.1	47.0	112	70-133	
cis-1,3-Dichloropropene	ug/m3	48.2	53.8	112	70-133	
Cyclohexane	ug/m3	36.4	39.5	109	70-134	
Dibromochloromethane	ug/m3	90.6	101	111	70-134	
Dichlorodifluoromethane	ug/m3	52.5	55.0	105	70-130	
Dichlorotetrafluoroethane	ug/m3	74.4	78.0	105	70-130	
Ethanol	ug/m3	113	117	104	65-130	
Ethyl acetate	ug/m3	38.4	44.2	115	70-134	
Ethylbenzene	ug/m3	46.2	51.8	112	70-133	
Hexachloro-1,3-butadiene	ug/m3	130	144	111	70-141	
m&p-Xylene	ug/m3	92.4	104	112	70-130	
Methyl-tert-butyl ether	ug/m3	38.3	42.3	110	70-132	
Methylene Chloride	ug/m3	36.8	38.6	105	70-134	
n-Heptane	ug/m3	43.5	50.6	116	69-140	
n-Hexane	ug/m3	37.7	42.2	112	70-137	
Naphthalene	ug/m3	63.9	69.8	109	70-130	
o-Xylene	ug/m3	46	52.8	115	70-132	
Propylene	ug/m3	18.6	20.6	111	69-130	
Styrene	ug/m3	45.3	50.9	113	70-136	
Tetrachloroethene	ug/m3	72	81.5	113	70-139	
Tetrahydrofuran	ug/m3	31.3	34.1	109	70-139	
Toluene	ug/m3	40.2	43.6	108	70-132	
trans-1,2-Dichloroethene	ug/m3	42.3	47.4	112	70-132	
trans-1,3-Dichloropropene	ug/m3	48.4	49.0	101	70-130	
Trichloroethene	ug/m3	57.2	63.7	111	70-132	
Trichlorofluoromethane	ug/m3	60.3	62.8	104	65-139	
Vinyl acetate	ug/m3	38.7	42.1	109	70-131	
Vinyl chloride	ug/m3	27.2	28.4	104	64-136	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

SAMPLE DUPLICATE: 4593851

Parameter	Units	10644693001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.24		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.38		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.35		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.69J		25	
1,1-Dichloroethane	ug/m3	ND	<0.14		25	
1,1-Dichloroethene	ug/m3	ND	<0.22		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<7.7		25	
1,2,4-Trimethylbenzene	ug/m3	ND	0.76J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.41		25	
1,2-Dichlorobenzene	ug/m3	ND	<1.2		25	
1,2-Dichloroethane	ug/m3	ND	<0.17		25	
1,2-Dichloropropane	ug/m3	ND	<0.27		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.37		25	
1,3-Butadiene	ug/m3	ND	0.80		25	
1,3-Dichlorobenzene	ug/m3	ND	<1.1		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.1		25	
2-Butanone (MEK)	ug/m3	7.8	8.2	5	25	
2-Hexanone	ug/m3	ND	1.9J		25	
2-Propanol	ug/m3	115	121	5	25	
4-Ethyltoluene	ug/m3	ND	<0.55		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.72		25	
Acetone	ug/m3	29.7	32.6	9	25	
Benzene	ug/m3	0.49	0.51	4	25	
Benzyl chloride	ug/m3	ND	<1.0		25	
Bromodichloromethane	ug/m3	ND	<0.43		25	
Bromoform	ug/m3	ND	<1.0		25	
Bromomethane	ug/m3	ND	<0.40		25	
Carbon disulfide	ug/m3	ND	<0.31		25	
Carbon tetrachloride	ug/m3	ND	<0.56		25	
Chlorobenzene	ug/m3	ND	<0.19		25	
Chloroethane	ug/m3	ND	<0.27		25	
Chloroform	ug/m3	ND	<0.18		25	
Chloromethane	ug/m3	0.88	0.88	1	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.29		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.88		25	
Cyclohexane	ug/m3	ND	<0.18		25	
Dibromochloromethane	ug/m3	ND	<0.48		25	
Dichlorodifluoromethane	ug/m3	2.5	2.6	5	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.33		25	
Ethanol	ug/m3	1060	1110	5	25	E
Ethyl acetate	ug/m3	ND	<0.21		25	
Ethylbenzene	ug/m3	ND	0.68J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.4		25	
m&p-Xylene	ug/m3	ND	1.2J		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.34		25	
Methylene Chloride	ug/m3	ND	0.67J		25	
n-Heptane	ug/m3	ND	0.93J		25	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co  
Pace Project No.: 10643658

SAMPLE DUPLICATE: 4593851

Parameter	Units	10644693001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	0.53J		25	
Naphthalene	ug/m3	ND	<2.8		25	
o-Xylene	ug/m3	ND	<0.24		25	
Propylene	ug/m3	ND	<0.48		25	
Styrene	ug/m3	ND	<0.56		25	
Tetrachloroethene	ug/m3	ND	0.40J		25	
Tetrahydrofuran	ug/m3	ND	0.57J		25	
Toluene	ug/m3	1.4	1.5	2	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.56		25	
trans-1,3-Dichloropropene	ug/m3	ND	<1.0		25	
Trichloroethene	ug/m3	ND	0.41J		25	
Trichlorofluoromethane	ug/m3	ND	1.4J		25	
Vinyl acetate	ug/m3	ND	<0.24		25	
Vinyl chloride	ug/m3	ND	<0.13		25	

SAMPLE DUPLICATE: 4593852

Parameter	Units	10644693003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.26		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.41		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.37		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.60J		25	
1,1-Dichloroethane	ug/m3	ND	<0.15		25	
1,1-Dichloroethene	ug/m3	ND	<0.24		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<8.3		25	
1,2,4-Trimethylbenzene	ug/m3	ND	0.84J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.44		25	
1,2-Dichlorobenzene	ug/m3	ND	<1.2		25	
1,2-Dichloroethane	ug/m3	ND	<0.18		25	
1,2-Dichloropropane	ug/m3	ND	<0.29		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.39		25	
1,3-Butadiene	ug/m3	ND	<0.16		25	
1,3-Dichlorobenzene	ug/m3	ND	<1.2		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.2		25	
2-Butanone (MEK)	ug/m3	14.0	13.7	2	25	
2-Hexanone	ug/m3	ND	2.0J		25	
2-Propanol	ug/m3	222	223	0	25	
4-Ethyltoluene	ug/m3	ND	<0.59		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.79J		25	
Acetone	ug/m3	55.2	54.2	2	25	
Benzene	ug/m3	0.67	0.65	3	25	
Benzyl chloride	ug/m3	ND	<1.1		25	
Bromodichloromethane	ug/m3	ND	<0.46		25	
Bromoform	ug/m3	ND	<1.1		25	
Bromomethane	ug/m3	ND	<0.43		25	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

SAMPLE DUPLICATE: 4593852

Parameter	Units	10644693003 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.34		25	
Carbon tetrachloride	ug/m3	ND	<0.60		25	
Chlorobenzene	ug/m3	ND	<0.20		25	
Chloroethane	ug/m3	ND	<0.30		25	
Chloroform	ug/m3	ND	0.35J		25	
Chloromethane	ug/m3	0.89	0.87	2	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.31		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.94		25	
Cyclohexane	ug/m3	ND	1.1J		25	
Dibromochloromethane	ug/m3	ND	<0.52		25	
Dichlorodifluoromethane	ug/m3	2.8	2.7	2	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.35		25	
Ethanol	ug/m3	1510	1500	1	25	E
Ethyl acetate	ug/m3	ND	0.83J		25	
Ethylbenzene	ug/m3	ND	0.85J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.5		25	
m&p-Xylene	ug/m3	ND	1.6J		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.36		25	
Methylene Chloride	ug/m3	ND	0.58J		25	
n-Heptane	ug/m3	2.4	2.3	4	25	
n-Hexane	ug/m3	ND	0.95J		25	
Naphthalene	ug/m3	ND	<3.0		25	
o-Xylene	ug/m3	ND	<0.26		25	
Propylene	ug/m3	ND	<0.51		25	
Styrene	ug/m3	ND	0.96J		25	
Tetrachloroethene	ug/m3	3.2	3.1	5	25	
Tetrahydrofuran	ug/m3	1.1	1.1	0	25	
Toluene	ug/m3	3.4	3.4	0	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.60		25	
trans-1,3-Dichloropropene	ug/m3	ND	<1.1		25	
Trichloroethene	ug/m3	3.9	3.9	0	25	
Trichlorofluoromethane	ug/m3	ND	1.4J		25	
Vinyl acetate	ug/m3	ND	<0.25		25	
Vinyl chloride	ug/m3	ND	<0.14		25	

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

QC Batch: 871000

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10643658016

METHOD BLANK: 4593746

Matrix: Air

Associated Lab Samples: 10643658016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethane	ug/m3	<0.11	0.82	03/13/23 10:37	
1,1-Dichloroethene	ug/m3	<0.16	0.81	03/13/23 10:37	
1,2-Dichloroethane	ug/m3	<0.13	0.82	03/13/23 10:37	
cis-1,2-Dichloroethene	ug/m3	<0.21	0.81	03/13/23 10:37	
Tetrachloroethene	ug/m3	<0.25	0.69	03/13/23 10:37	
Trichloroethene	ug/m3	<0.24	0.55	03/13/23 10:37	
Vinyl chloride	ug/m3	<0.096	0.26	03/13/23 10:37	

LABORATORY CONTROL SAMPLE: 4593747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/m3	42.5	46.0	108	70-133	
1,1-Dichloroethene	ug/m3	41.9	44.0	105	69-134	
1,2-Dichloroethane	ug/m3	42.4	46.2	109	70-131	
cis-1,2-Dichloroethene	ug/m3	42.1	46.7	111	70-133	
Tetrachloroethene	ug/m3	72	80.2	111	70-139	
Trichloroethene	ug/m3	57.2	62.6	109	70-132	
Vinyl chloride	ug/m3	27.2	28.8	106	64-136	

SAMPLE DUPLICATE: 4594586

Parameter	Units	10644320001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethane	ug/m3	<0.15	<0.15			25
1,1-Dichloroethene	ug/m3	<0.24	<0.24			25
1,2-Dichloroethane	ug/m3	<0.18	<0.18			25
cis-1,2-Dichloroethene	ug/m3	<0.31	<0.31			25
Tetrachloroethene	ug/m3	<0.36	<0.36			25
Trichloroethene	ug/m3	<0.34	<0.34			25
Vinyl chloride	ug/m3	<0.14	<0.14			25

SAMPLE DUPLICATE: 4594587

Parameter	Units	10644320003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethane	ug/m3	<0.16	<0.16			25
1,1-Dichloroethene	ug/m3	<0.24	<0.24			25
1,2-Dichloroethane	ug/m3	<0.19	<0.19			25

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### QUALITY CONTROL DATA

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

SAMPLE DUPLICATE: 4594587

Parameter	Units	10644320003 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.32	<0.32		25	
Tetrachloroethene	ug/m3	<0.37	<0.37		25	
Trichloroethene	ug/m3	<0.36	<0.36		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

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### 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.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60428891 FV Steel and Wire Co

Pace Project No.: 10643658

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10643658001	IA-1	TO-15	869647		
10643658002	IA-2	TO-15	869647		
10643658003	IA-3	TO-15	869647		
10643658004	OA-1	TO-15	869647		
10643658005	SS-2	TO-15	869647		
10643658006	SS-1	TO-15	869647		
10643658007	SS-3	TO-15	869647		
10643658008	SS-4	TO-15	869647		
10643658009	SS-5	TO-15	869647		
10643658010	SS-6	TO-15	869647		
10643658011	SS-7	TO-15	869647		
10643658012	SS-8	TO-15	869647		
10643658013	SS-9	TO-15	869647		
10643658014	SS-10	TO-15	870869		
10643658015	SS-11	TO-15	870743		
10643658016	SS-12	TO-15	871000		

## REPORT OF LABORATORY ANALYSIS

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# AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO#: 10643658



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Page: 1 of 2

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State <u>WI</u> Reporting Units ug/m <sup>3</sup> ___ mg/m <sup>3</sup> ___ PPBV ___ PPMV ___ Other ___ Report Level II ___ III ___ IV ___ Other ___
Company: <u>AECOM</u>	Report To:	Attention:	
Address: <u>1555 N RiverCenter Dr Milwaukee, WI 53214</u>	Copy To: <u>Garret.Schacht@aecom.com</u>	Company Name:	
Email To: <u>Gary.Brown@aecom.com</u>	Purchase Order No.: <u>10528600</u>	Address: <u>SAME</u>	
Phone: <u>414-520-6224</u> Fax: <u>414-520-6224</u>	Project Name: <u>FV Steel and Wire Co</u>	Pace Quote Reference:	
Requested Due Date/TAT: <u>Standard</u>	Project Number: <u>60428891</u>	Pace Project Manager/Sales Rep.	
		Pace Profile #:	

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		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	PID Reading (Client only)	COMPOSITE START						COMPOSITE - END/GRAB		PM10	3C - Fixed Gas (%)	TO-9 BTEX	TO-15M (Methane)	TO-14	TO-15 Full List VOCs		TO-15 Short List BTEX	TO-15 Short List Chlorinated (other)
					DATE	TIME					DATE	TIME									
1	IA-1			2-17-23	0845	2-23-23	1645	30	12	0988	1374				X		001				
2	IA-2			2-16-23	0850	2-16-23	1650	30	5	0930	1276				X		002				
3	IA-3			2-16-23	0855	2-16-23	1655	30	4	3637	0532				X		003				
4	OA-1			2-16-23	0910	2-16-23	1700	30	4	0806	1269				X		004				
5	SS-1	SS-2		6.4	2-17-23	0928	2-17-23	0958	30	7	3989	1511				X		005			
6	SS-2	SS-1		2.9		0927		0957	28	4	0528	1694				X		006			
7	SS-3			5.1		0930		1000	30	13	2343	1153				X		007			
8	SS-4			8.6		0932		1002	30	7	3427	2780				X		008			
9	SS-5			11.5		0934		1004	30	24	3883	1200				X		009			
10	SS-6			2.1		0936		1006	29.5	7	0415	1518				X		010			

Comments:	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
IA-1 Date = 2-16-2023	Garret Schacht/AECOM	2-18-23	1130	Matt [Signature]	2-21-23	11:30	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): 02/18/23

ORIGINAL



# AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

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Page: 2 of 2

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	<b>Program</b> <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other
Company: <u>ACIOM</u>	Report To:	Attention:	Location of Sampling by State _____ <b>Reporting Units</b> ug/m <sup>3</sup> _____ mg/m <sup>3</sup> _____ PPBV _____ PPMV _____ Other _____
Address: <u>1555 N River Lakes Dr Milwaukee, WI 53214</u>	Copy To: <u>gary.schacht@aciom.com</u>	Company Name: Address:	
Email To: <u>Gary.Brown@aciom.com</u>	Purchase Order No.: <u>1052860</u>	Pace Quote Reference:	<b>Report Level</b> II. ___ III. ___ IV. ___ Other _____
Phone: _____ Fax: _____	Project Name: <u>FU Steel and Wire Co</u>	Pace Project Manager/Sales Rep.	
Requested Due Date/TAT: <u>Standard</u>	Project Number: <u>60428891</u>	Pace Profile #:	

ITEM #	'Section D Required Client Information <b>AIR SAMPLE ID</b> Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID	
					COMPOSITE START		COMPOSITE - END/GRAB						PM10	3C - Fiked Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated (Other)		
					DATE	TIME	DATE	TIME														
1	SS-7			1.7	2-17-23	1342	2-17-23	1412	29	9	1668	3047								X		O11
2	SS-8			1.1		1415		1445	29	10	1670	1111								X		O12
3	SS-9			2.1		120		1246	28.5	6	2766	1587								X		O13
4	SS-10			2.7		123		1493	30	8	0428	0831								X		O14
5	SS-11			1.8		1217		1247	29	7	0243	3015								X		O15
6	SS-12			2.4		1215		1245	30	7	2175	1244								X		O16
7-12	(65)																					

Comments: <u>SS-10 End Time = 1243</u>	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
				<u>Matt J. Pace</u>	<u>2-21-23</u>	<u>11:30</u>	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	
SIGNATURE of SAMPLER:	DATE Signed (MM / DD / YY)

ORIGINAL





DC#\_Title: ENV-FRM-MIN4-0113 v01\_Sample Condition Upon Receipt (SCUR) - Air

Effective Date: 02/25/2022

WO#: 10643658

PM: CT1

Due Date: 02/28/23

CLIENT: AECOM-WI

Air Sample Condition Upon Receipt

Client Name: Aecom

Project #

Courier: [X] FedEx [ ] UPS [ ] USPS [ ] Client [ ] Pace [ ] Speedee [ ] Commercial

Tracking Number: [ ] See Exception [X]

Custody Seal on Cooler/Box Present? [ ] Yes [X] No

Seals Intact? [ ] Yes [ ] No

Packing Material: [ ] Bubble Wrap [X] Foam [ ] Tin Can [ ] Other: [ ] None

Date & Initials of Person Examining Contents: 2-22-23 WI

Comments:

Table with 13 rows of checklist items and checkboxes. Items include Chain of Custody Present, Chain of Custody Filled Out, Chain of Custody Relinquished, Sampler Name and/or Signature on COC, Samples Arrived within Hold Time, Short Hold Time Analysis (<72 hr)?, Rush Turn Around Time Requested?, Sufficient Volume?, Correct Containers Used?, (Tedlar bags not acceptable container for TO-15 or APH) -Pace Containers Used?, Containers Intact? (visual inspection/no leaks when pressurized), Media: Air Can | Airbag, Is sufficient information available to reconcile samples to the COC?, Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)

Gauge #: [ ] 10AIR26 [ ] 10AIR34 [ ] 10AIR35 [ ] 10AIR17 [ ] 10AIR47 [X] 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 IA-1 through IA-10 and SS-11 through SS-12.

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? [ ] Yes [ ] No

Person Contacted: Gary Braun
Comments/Resolution: Analyte list for IA samples provided

Date/Time:

Project Manager Review:

Date: 2/24/23

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).



DC#\_Title: ENV-FRM-MIN4-0142 v01\_Sample Condition Upon Receipt (SCUR) Exception Form

Effective Date: 02/25/2022

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No																		
			If yes, indicate who was contacted/date/time. If no, indicate reason why.																		
			Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If you answered yes, fill out information to the left.																		
			<table border="1"><thead><tr><th colspan="3">No Temp Blank</th></tr><tr><th>Read Temp</th><th>Corrected Temp</th><th>Average Temp</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp												
No Temp Blank																					
Read Temp	Corrected Temp	Average Temp																			

Tracking Number/Temperature
6101 8741 5072
5083
5061
5050

Issue Type:	Container Type	# of Containers
Sample ID	Type	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_