

From: Beggs, Tauren R - DNR
Sent: Monday, November 13, 2023 8:11 AM
To: Wayne Fassbender
Subject: RE: Jagemann Plating Work Plan

Thanks for the information Wayne

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Tauren R. Beggs

Phone: (920) 510-3472

Tauren.Beggs@wisconsin.gov (preferred contact method during work at home)

From: Wayne Fassbender <wfassbender@enviroforensics.com>
Sent: Friday, November 10, 2023 11:29 AM
To: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>
Subject: Jagemann Plating Work Plan

Hi Tauren:

I just submitted the work plan through the portal. I did not include a review fee, because the site investigations will likely go through multiple steps. If you see anything outstanding from your perspective, let me know. The only thing I did not include was paired sub-slab sampling with the proposed two indoor air sampling events to commission the HVAC/mechanical system. We will likely do a paired event towards the end of our post-remedial monitoring period to gain better insight into the concentrations of CVOCs in remaining sub-slab vapor.

Wayne Fassbender, Senior Project Manager
EnviroForensics®
Wisconsin Office/P.O. Box 128/Oconomowoc, WI/53066
262-490-6472 | wfassbender@enviroforensics.com

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November 10, 2023

Tauren Beggs
Wisconsin Department of Natural Resources
2984 Shawano Ave
Green Bay, WI 54313

**Re: Work Plan for Further Site Investigations and Compliance Updates
Jagemann Plating Company, Inc.
1324 S. 26th Street
Manitowoc, WI 54220
BRRTS# 02-36-555544**

Dear Mr. Beggs:

EnviroForensics is providing the following Work Plan for continued site investigations and compliance updates that have been presented by the Wisconsin Department of Natural Resources (WDNR) in past emails. Specifically, the email requests included various WDNR demands for additional information regarding:

1. Continued sampling for per-polyflouroalkyl substances (PFAS);
2. Additional sampling to determine the extent of sub-surface vapor impacts;
3. Sampling of indoor air quality to ensure that existing air exchange measures are effective;
4. Updating of the sub-slab depressurization system (SSDS) Operation & Maintenance Plan to include additional details consistent with Attachment D of closure Form 4400-202; and
5. Periodic inspections of the facility air exchange system and basement office area SSDS.

Much of the work that has been requested by the WDNR has been completed or is currently underway; therefore, this Work Plan provides an account of what has already been done along with next planned steps. The following sections of this work plan address the WDNR requests in more detail and provide our planned actions.

Continued Post-remedial Groundwater Sampling with Additional Sampling for PFAS

EnviroForensics has recently completed the fourth of eight planned rounds of post-remedial groundwater sampling. Sampling was performed according to our previously submitted Post-remedial Groundwater Monitoring Plan. The laboratory results are not yet available, and we will provide a results report within 10 days of receiving the laboratory data. The results of explosive

gas measurements taken in select monitoring wells and sub-slab vapor monitoring ports will also be submitted with the report.

We have sampled for PFAS in a limited number of wells that are down-gradient and side-gradient to the direction of groundwater flow (see attached **Figure 1** which shows the wells that were already sampled highlighted in red). We chose these wells because we believe the focus should be determining if PFAS is stable or migrating and whether additional off-site properties may be affected. We did not implement any kind of remedial efforts that would affect PFAS concentrations, so it is a good assumption that the concentrations in the source areas (appear to be two of them as seen on **Figure 1**) will not significantly change. Past sampling results obtained by Robert E. Lee and Associates, Inc. are attached and the combined concentrations of PFOA and PFOS are shown on **Figure 1**.

To help determine the extent of PFAS in groundwater, we initially sampled existing side-gradient wells MW-17 and MW-19 to the south and TW-27 and TW-28 to the north; existing down-gradient wells MW-4, MW-5, MW-6; and intermediate well MW-7. If the concentrations at these outlier wells contain much lower concentrations of PFAS, or none at all, then we propose to select six (6) wells for PFAS sampling annually for the purpose of monitoring plume migration.

This initial round of PFAS sampling has been completed; however, the analytical results are not yet available. The results of this initial round of sampling will be provided along with the post-remedial sampling results within 10 days of receiving the laboratory data.

If the results of this initial round of PFAS sampling indicate that the PFAS plume has potentially spread to off-site properties, then additional monitoring wells will be needed to determine the extent.

Extent of Sub-surface Vapor Impacts

EnviroForensics recently installed two (2) additional vapor sampling ports within the facility to better define the extent of sub-surface vapor impacts to the north. These ports are labeled SSV-14 and SSV-15 and shown in red on attached **Figure 2**. We have recently sampled the ports using 1-liter summa canisters and are awaiting results. We are proposing to sample the new ports two (2) more times during the winter heating months to rule out the risk of vapor intrusion. If any sub-slab vapor sample contains chlorinated volatile organic compounds (CVOCs) in concentrations that exceed a vapor risk screening level (VRSL), then additional efforts will be needed to determine the extent of subsurface soil vapor impacts and additional indoor air sampling may be required.

In addition, we have installed five (5) passive soil gas collectors in outside areas labeled SG-1 through SG-5 and shown in red on **Figure 2**. The locations of the outside soil gas collectors were chosen to determine if there are areas of the site that will require institutional controls to protect against vapor intrusion that would be applied during the case closure process.

The results of the recent round of vapor sampling are pending and will be provided along with the post-remedial groundwater sampling results.

Repeat Indoor Air Sampling

Indoor air sampling will be performed two (2) more times, once in the upcoming winter heating months and once in the next summer non-heating months. These sampling events will be coordinated with the quarterly groundwater sampling events to reduce site mobilizations. The indoor air sampling events are needed to complete the commissioning of the facility HVAC/mechanical air exchange systems which are mitigating the accumulation of CVOC vapors in concentrations that could exceed the industrial vapor action levels (VALs).

Indoor air sampling will be performed at past locations IA-2, IA-7, IA-8, IA-10, IA-11, and at new locations (IA-14 and IA-15) which coincide with recent sub-slab sampling locations SSV-14 and SSV-15. The locations for indoor air samples are shown in red on **Figure 2**.

The indoor air samples will be collected over a 10-day period using passive samplers.

SSDS O&M Plan

We will update the existing SSDS O&M Plan to include additional details such as pictures of installed equipment, their descriptions, and their locations on a figure that is of appropriate scale to clearly show their locations in reference to the overall facility. This will be done so that any person, regardless of their training or skill level, can at a minimum determine whether the SSDS is operating properly and can turn the system on and off in the event that repairs to the system are needed.

A recent site visit was made to inspect the condition and locations of the SSDS equipment and to take pictures. The inspection has revealed that there are no cracks in the bare concrete floor or in the tiled floor areas of the basement. A sump in the basement has been fitted with a sealed lid. Pictures of these areas will be included in the O&M Plan for future reference and maintenance.

At present, Mr. Jagemann does not have plans to decommission the SSDS. This may change in the future depending on the overall effectiveness of past groundwater remedial actions. Mr. Jagemann is aware of the long-term maintenance and reporting requirements for continued operation of the SSDS and he is also aware of the SSDS decommissioning process requirements.

Facility HVAC System and SSDS Inspections (Vapor Mitigation System)

A combination of the facility heating, ventilation, and air conditioning (HVAC) systems and the basement SSDS provides mitigation of a potential vapor intrusion risk within the facility, and basement office and storage areas.

The SSDS has been successfully commissioned for this purpose. There are annual inspections required to ensure that the system is operating effectively. The inspections involve observing the system for unusual operating noises or leakage of liquids or lubricants. Observations of negative pressure are also performed to include visual inspection of the u-tube manometer and negative pressure readings collected from the four (4) basement sub-slab vapor monitoring ports. Mr. Jagemann has contracted with a commercial firm (currently A-1 Radon and Vacuum) to provide this annual service. A copy of their most recent SSDS inspection performed in June 2023 is attached. These yearly inspections will continue until the SSDS is no longer deemed necessary and the decommissioning process is successfully implemented.

Mr. Jagemann directs staff maintenance personnel to perform monthly inspections of the facility HVAC system which includes several components which filter indoor air and provide make-up air (fresh air). Logs of these inspections made during 2022 and 2023 are attached. These inspections will continue until vapor mitigation is no longer needed.

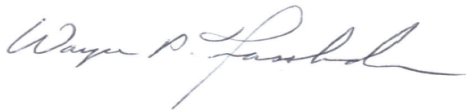
Schedule

1. 4th Post-remedial Sampling Event---samples collected per our post-remedial sampling plan include CVOCs, methane, ethane, ethene, and total organic carbon completed and we are awaiting results;
2. Measurements of methane in select wells and sub-slab vapor ports completed and will present with other laboratory results;
3. Sampling for PFAS in select wells completed and we are awaiting results;
4. Installation of two (2) new sub-slab vapor ports inside the facility and sampling of soil gas in five (5) outside locations completed and we are awaiting results;
5. Monthly inspections of the HVAC vapor mitigation system are completed and tracking sheet is included with this submittal;
6. Annual inspection of the sub-slab depressurization system is completed and the result is included in this submittal;
7. Updates to the SSDS O&M Plan will be completed by December, 2023;
8. The 5th round of post-remedial groundwater sampling along with measurements of explosive gases will be performed in January, 2024. Measurements of methane gas and hydrogen sulfide will be taken within monitoring wells and additional vapor monitoring ports at this time;

9. Indoor air sampling will be performed in January, 2024 to coincide with post-remedial groundwater sampling;
10. A second round of indoor air sampling will be performed in the non-heating months to coincide with a post-remedial groundwater monitoring event; and
11. Additional investigations to determine the extent of vapor and PFAS impacts will be planned based on the upcoming results of the most recent investigations.

If you have any questions regarding the content of this Work Plan, please feel free to contact me at 262-490-6472, or wfassbender@enviroforensics.com.

Sincerely,
EnviroForensics, LLC

A handwritten signature in black ink that reads "Wayne P. Fassbender".

Wayne Fassbender, P.G.
Senior Project Manager

Copy: Mike Jagemann, Jagemann Plating

Attachments:

- Figure 1: Groundwater Flow Map with Past PFAS and Locations of New Wells Sampled for PFAS
- Figure 2: Location of New Vapor Monitoring Points
- Robert E. Lee Past PFAS Sampling Results
- Annual SSDS Monitoring Results
- Monthly HVAC/mechanical systems Inspection Log

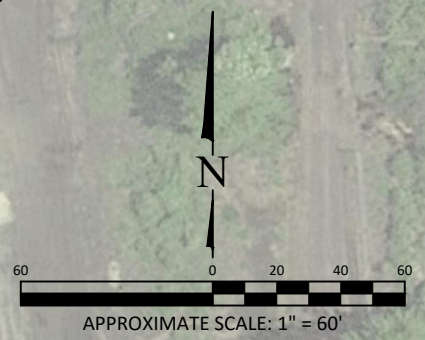
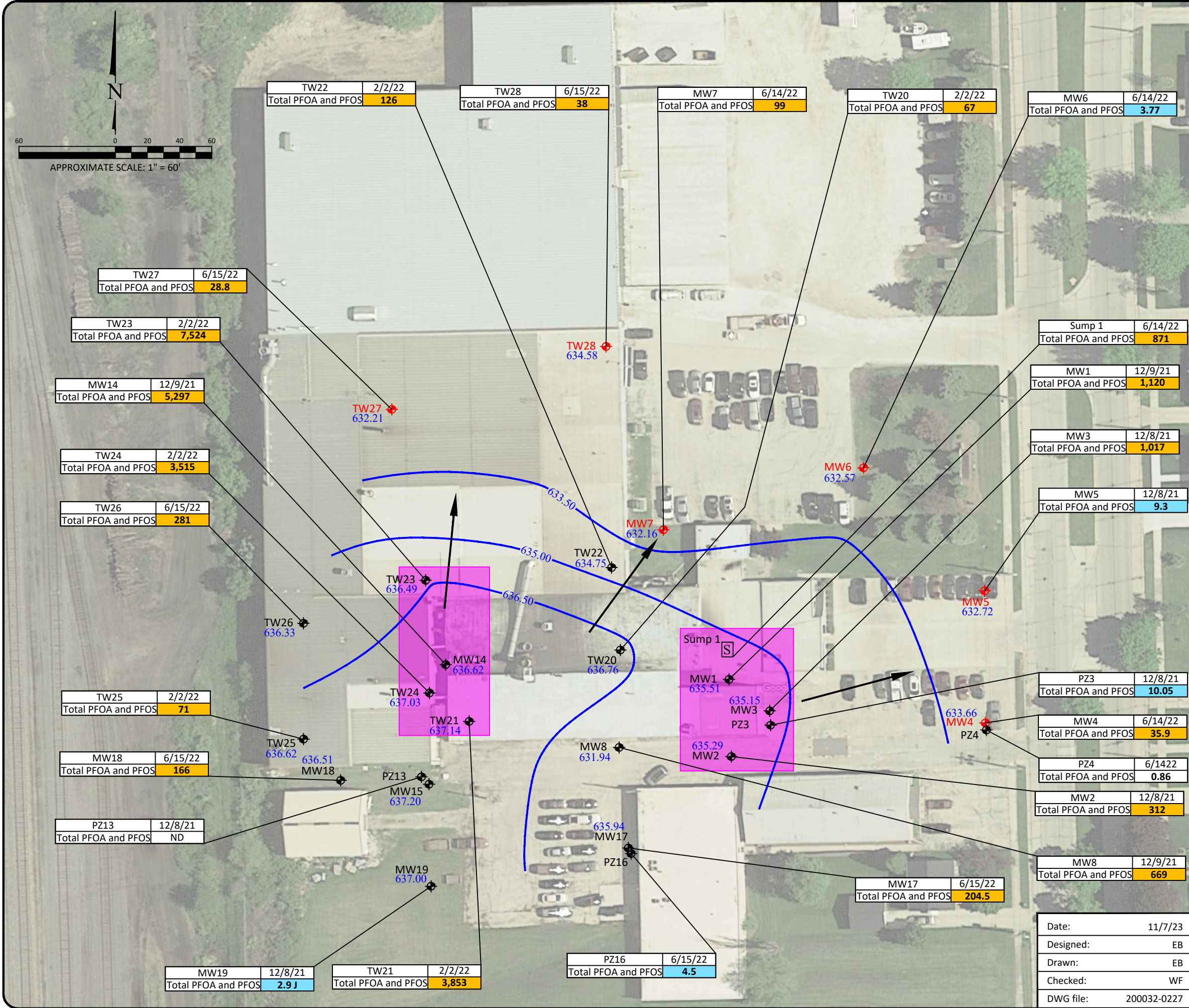
Legend

- MW1 Monitoring well
- TW21 Temporary monitoring well
- PZ3 Piezometer
- MW4 Monitoring well (Recently Sampled)

Analyte	Public Health Preventive Action Limit	Public Health Enforcement Standard
Total PFOA and PFOS	2	20

- Note:
- Bolded and orange shaded values exceed the Public Health Enforcement Standard
 - Bolded and blue shaded values exceed the Public Health Preventive Action Limit
 - Bolded values are above detection limits
 - J = Analyte concentration less than laboratory detection limits
 - Samples analyzed using Modified EPA Method 537
 - All results reported in units of nanograms per liter (ng/L)
 - PFOA = Perfluorooctanoic acid
 - PFOS = Perfluorooctane sulfonic acid
 - ND = Not detected

- Primary source areas of PFAS
- 728.68 — Groundwater elevation contour
- 728.69 Groundwater elevation (feet above mean sea level)
- Approximate groundwater flow direction



TW22 Total PFOA and PFOS 126	2/2/22	TW28 Total PFOA and PFOS 38	6/15/22	MW7 Total PFOA and PFOS 99	6/14/22	TW20 Total PFOA and PFOS 67	2/2/22	MW6 Total PFOA and PFOS 3.77	6/14/22
TW27 Total PFOA and PFOS 28.8	6/15/22	TW23 Total PFOA and PFOS 7,524	2/2/22	MW14 Total PFOA and PFOS 5,297	12/9/21	Sump 1 Total PFOA and PFOS 871	6/14/22	MW1 Total PFOA and PFOS 1,120	12/9/21
TW24 Total PFOA and PFOS 3,515	2/2/22	TW26 Total PFOA and PFOS 281	6/15/22	TW25 Total PFOA and PFOS 71	2/2/22	MW3 Total PFOA and PFOS 1,017	12/8/21	MW5 Total PFOA and PFOS 9.3	12/8/21
MW18 Total PFOA and PFOS 166	6/15/22	MW19 Total PFOA and PFOS 2.9 J	12/8/21	TW21 Total PFOA and PFOS 3,853	2/2/22	MW8 Total PFOA and PFOS 669	12/9/21	MW2 Total PFOA and PFOS 312	12/8/21
PZ13 Total PFOA and PFOS ND	12/8/21	MW17 Total PFOA and PFOS 204.5	6/15/22	PZ16 Total PFOA and PFOS 4.5	6/15/22	PZ3 Total PFOA and PFOS 10.05	12/8/21	MW4 Total PFOA and PFOS 35.9	6/14/22
MW15 Total PFOA and PFOS 166	6/15/22	MW17 Total PFOA and PFOS 204.5	6/15/22	PZ16 Total PFOA and PFOS 4.5	6/15/22	PZ4 Total PFOA and PFOS 0.86	6/14/22	MW4 Total PFOA and PFOS 35.9	6/14/22
MW15 Total PFOA and PFOS 166	6/15/22	MW17 Total PFOA and PFOS 204.5	6/15/22	PZ16 Total PFOA and PFOS 4.5	6/15/22	MW2 Total PFOA and PFOS 312	12/8/21	MW4 Total PFOA and PFOS 35.9	6/14/22
MW15 Total PFOA and PFOS 166	6/15/22	MW17 Total PFOA and PFOS 204.5	6/15/22	PZ16 Total PFOA and PFOS 4.5	6/15/22	MW2 Total PFOA and PFOS 312	12/8/21	MW4 Total PFOA and PFOS 35.9	6/14/22

GROUNDWATER FLOW MAP WITH PAST PFAS RESULTS AND LOCATION OF NEW WELLS SAMPLED FOR PFAS

Jagemann Plating Company
1324 South 26th Street
Manitowoc, Wisconsin

Date:	11/7/23
Designed:	EB
Drawn:	EB
Checked:	WF
DWG file:	200032-0227



825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com

Figure	1
Project	200032



Legend

- OA-1 ■ Outdoor air sample
- IA-1 ▲ Indoor air sample
- SSV-13 ● Sub-slab vapor sample
- SG-1 ● New Soil Gas sample
- SSV-14 ● New Sub-slab vapor sample

LOCATION OF NEW VAPOR MONITORING POINTS

Jagemann Plating Company
 1324 South 26th Street
 Manitowoc, Wisconsin

Date:	11/7/23
Designed:	EB
Drawn:	EB
Checked:	WF
DWG file:	200032-0226



825 North Capitol Avenue • Indianapolis, IN 46204
 EnviroForensics.com

Figure	2
Project	200032

**Table A.1.c Groundwater Analytical Results
Jagemann Plating Co., Inc.
1324 S. 26th Street; Manitowoc, WI**

Parameters	CAS Number	Cycle 10 & 11 Recommended Ch. NR 140 ES	Cycle 10 & 11 Recommended Ch. NR 140 PAL	TW-20	TW-21	TW-22	TW-23	TW-24	TW-25	TW-26	TW-27	TW-28	Trip Blank	FBR (Field Reagent Blank)		
				2/02/22	2/02/22	2/02/22	2/02/22	2/02/22	2/02/22	6/15/22	6/15/22	6/15/22		12/09/21	12/09/21	2/02/22
Perfluoroalkyl & Polyfluoroalkyl Substances (PFAS) Results (ng/L)																
<i>Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)</i>																
Perfluoro-n-butanoic acid (PFBA)	375-22-4	10,000	2,000	ND	11 J	31	37	2.5 J	8.5	9.8	21	18	ND	ND	ND	ND
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	---	---	ND	ND	14	120	4.4	6.6	21.0	4.2	6.3	ND	ND	ND	ND
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	150,000	30,000	ND	ND	14	35	5.5	11	20	2.5	3.7	ND	ND	ND	ND
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	---	---	2.7 J	8.4 J	8.7	39	3.1 J	17	19	1.9 J	2.4	ND	ND	ND	ND
Perfluoro-n-octanoic acid (PFOA)	335-67-1	20*	2*	<u>10</u>	53 J	31	24	<u>15</u>	14	71	9.8	13	ND	ND	ND	ND
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	30	3	ND	ND	ND	<u>5.2</u>	2.9 J	ND	6.7	ND	ND	ND	ND	ND	ND
Perfluoro-n-decanoic acid (PFDA)	335-76-2	300	60	ND	ND	ND	1.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoro-n-undecanoic acid (PFUnDA)	2058-94-8	3,000	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoro-n-tridecanoic acid (PFTDA)	72629-94-8	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	10,000	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<i>Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)</i>																
Perfluoro-1-butanedisulfonic acid (PFBS)	375-73-5	450,000	90,000	110	130	310	50	38	170	94	100	140	ND	ND	ND	ND
Perfluoro-1-pentadisulfonic acid (PFPeS)	2706-91-4	---	---	ND	32 J	20	6.6	6.5	11	7.6	5.2	4.2	ND	ND	ND	ND
Perfluorohexadisulfonic acid (PFHxS)	355-46-4	40	4	<u>11</u>	160	54	75	<u>34</u>	<u>30</u>	93	<u>10</u>	<u>14</u>	ND	ND	ND	ND
Perfluoro-1-heptadisulfonic acid (PFHpS)	375-92-8	---	---	1.0 J	78	5.1	52	30	1.2 J	38	1.1 J	1.2 J	ND	ND	ND	ND
Perfluorooctadisulfonic acid (PFOS)	1763-23-1	20*	2*	57	3,800	95	7,500	3,500	57	210 D	<u>19</u>	25	ND	ND	ND	ND
Perfluoro-1-nonesulfonic acid (PFNS)	68259-12-1	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoro-1-decane sulfonic acid (PFDS)	335-77-3	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecane sulfonic acid (PFDOS)	79780-39-5	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<i>Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)</i>																
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	20*	2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	20*	2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	20*	2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<i>Fluorotelomer Substances (FTS)</i>																
1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	---	---	2.0 J	ND	ND	41	16	8.2 J	34 I	ND	ND	ND	ND	ND	ND
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	---	---	ND	ND	ND	3.9 JQ	3.7 J	ND	5.5	ND	ND	ND	ND	ND	ND
<i>Replacement Chemicals</i>																
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	300	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,8-dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	3	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PFOA and PFOS		20*	2*	67	3,853	126	7,524	3,515	71	281	28.8	38	ND	ND	ND	ND
Total EtFOSE, EtFOSA, and EtFOSAA		20*	2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Key/Notes:

WI DNR PFAS List - 33 Compounds laboratory analysis was completed using Modified USEPA Method 537
 * = Wisconsin Department of Health Services recommends a combined standard for EtFOSE, EtFOSA, and EtFOSAA; and PFOS and PFOA.
 ng/L = nanogram per liter
 J = Results were below the calibration range
 D = Results were taken from secondary dilutions of the sample extracts to bring results within calibration range
 I = Incorrect isotope ratios were obtained
 Q = Surrogate failure
 --- = No Recommendations by WDNR for a Ch. 140 PAL or ES standard
 ND = Not Detected
 Highlighted bold values exceed the current recommended Ch. NR 140 Enforcement Standards (ES) for individual and/or combined values
 Underlined bold values exceed the current recommended Ch. NR 140 Preventive Action Limits (PAL) for individual and/or combined values

A-1 Vacuum & Radon
2343 S Oneida St
Green Bay, WI 54304
+1 9204659333
info@a1vacuumcenter.com
a1vacuumcenter.com



INVOICE

BILL TO

Jagemann Plating Co Inc

INVOICE # 12830

DATE 06/29/2023

DUE DATE 06/29/2023

TERMS Due on receipt

ACTIVITY	QTY	RATE	AMOUNT
VOC Mitigation Inspection Annual Inspection of VOC Mitigation System is good working order at Jagemann Plating Co Inc. Mitigation system is moving air well and communicating with all ports. Port #1 0.083 Port #2 0.135 Port #3 0.130 Port #4 0.011	1	500.00	500.00
BALANCE DUE			\$500.00

2023

JAGEMANN PLATING COMPANY

1324 S. 26TH STREET
 MANITOWOC, WI
 WDNR BRRTS No. 02-36-555544
 VMS Annual Inspection log

Plating Facility Mechanical Systems

Figure Unit #	System	Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	8/1	0	
2	Scrubber #2	8/1	0	
3	Exhaust Unit #3	8/1	0	
4	Exhaust Unit #4	8/1	0	
5	Exhaust Unit #5	8/1	0	
6	Warehouse MAU	8/1	0	
7	Plant MAU	8/1	0	
8	Scrubber #8	8/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	9/1	0	
2	Scrubber #2	9/1	0	
3	Exhaust Unit #3	9/1	0	
4	Exhaust Unit #4	9/1	0	
5	Exhaust Unit #5	9/1	0	
6	Warehouse MAU	9/1	0	
7	Plant MAU	9/1	0	
9	Scrubber #9	9/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	10/1	0	
2	Scrubber #2	10/1	0	
3	Exhaust Unit #3	10/1	0	
4	Exhaust Unit #4	10/1	0	
5	Exhaust Unit #5	10/1	0	
6	Warehouse MAU	10/1	0	
7	Plant MAU	10/1	0	
9	Scrubber #9	10/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1			
2	Scrubber #2			
3	Exhaust Unit #3			
4	Exhaust Unit #4			
5	Exhaust Unit #5			
6	Warehouse MAU			
7	Plant MAU			
9	Scrubber #9			

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1			
2	Scrubber #2			
3	Exhaust Unit #3			
4	Exhaust Unit #4			
5	Exhaust Unit #5			
6	Warehouse MAU			
7	Plant MAU			
9	Scrubber #9			

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1			
2	Scrubber #2			
3	Exhaust Unit #3			
4	Exhaust Unit #4			
5	Exhaust Unit #5			
6	Warehouse MAU			
7	Plant MAU			
9	Scrubber #9			

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JAGEMANN PLATING COMPANY

1324 S. 26TH STREET
 MANITOWOC, WI
 WDNR BRRTS No. 02-36-55544
 VMS Annual Inspection log

2023

Plating Facility Mechanical Systems

Figure Unit #	System	Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	2/1	0	
2	Scrubber #2	2/1	0	
3	Exhaust Unit #3	2/1	0	
4	Exhaust Unit #4	2/1	0	
5	Exhaust Unit #5	2/1	0	
6	Warehouse MAU	2/1	0	
7	Plant MAU	2/1	0	
8	Scrubber #8	2/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	3/1	0	
2	Scrubber #2	3/1	0	
3	Exhaust Unit #3	3/1	0	
4	Exhaust Unit #4	3/1	0	
5	Exhaust Unit #5	3/1	0	
6	Warehouse MAU	3/1	0	
7	Plant MAU	3/1	0	
9	Scrubber #8	3/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	4/1	0	
2	Scrubber #2	4/1	0	
3	Exhaust Unit #3	4/1	0	
4	Exhaust Unit #4	4/1	0	
5	Exhaust Unit #5	4/1	0	
6	Warehouse MAU	4/1	0	
7	Plant MAU	4/1	0	
9	Scrubber #8	4/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	5/1	0	
2	Scrubber #2	5/1	0	
3	Exhaust Unit #3	5/1	0	
4	Exhaust Unit #4	5/1	0	
5	Exhaust Unit #5	5/1	0	
6	Warehouse MAU	5/1	0	
7	Plant MAU	5/1	0	
9	Scrubber #8	5/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	6/1	0	
2	Scrubber #2	6/1	0	
3	Exhaust Unit #3	6/1	0	
4	Exhaust Unit #4	6/1	0	
5	Exhaust Unit #5	6/1	0	
6	Warehouse MAU	6/1	0	
7	Plant MAU	6/1	0	
9	Scrubber #8	6/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	7/1	0	
2	Scrubber #2	7/1	0	
3	Exhaust Unit #3	7/1	0	
4	Exhaust Unit #4	7/1	0	
5	Exhaust Unit #5	7/1	0	
6	Warehouse MAU	7/1	0	
7	Plant MAU	7/1	0	
9	Scrubber #8	7/1	0	

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2022-2023

JAGEMANN PLATING COMPANY
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Plating Facility Mechanical Systems

Figure Unit #	System	Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	8/1	0	
2	Scrubber #2	8/1	0	
3	Exhaust Unit #3	8/1	0	
4	Exhaust Unit #4	8/1	0	
5	Exhaust Unit #5	8/1	0	
6	Warehouse MAU	8/1	0	
7	Plant MAU	8/1	0	
8	Scrubber #8	8/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	9/1	0	
2	Scrubber #2	9/1	0	
3	Exhaust Unit #3	9/1	0	
4	Exhaust Unit #4	9/1	0	
5	Exhaust Unit #5	9/1	0	
6	Warehouse MAU	9/1	0	
7	Plant MAU	9/1	0	
9	Scrubber #8	9/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	10/1	0	
2	Scrubber #2	10/1	0	
3	Exhaust Unit #3	10/1	0	
4	Exhaust Unit #4	10/1	0	
5	Exhaust Unit #5	10/1	0	
6	Warehouse MAU	10/1	0	
7	Plant MAU	10/1	0	
9	Scrubber #8	10/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	11/1	0	
2	Scrubber #2	11/1	0	
3	Exhaust Unit #3	11/1	0	
4	Exhaust Unit #4	11/1	0	
5	Exhaust Unit #5	11/1	0	
6	Warehouse MAU	11/1	0	
7	Plant MAU	11/1	0	
9	Scrubber #8	11/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	12/1	0	
2	Scrubber #2	12/1	0	
3	Exhaust Unit #3	12/1	0	
4	Exhaust Unit #4	12/1	0	
5	Exhaust Unit #5	12/1	0	
6	Warehouse MAU	12/1	0	
7	Plant MAU	12/1	0	
9	Scrubber #8	12/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	1/1	0	
2	Scrubber #2	1/1	0	
3	Exhaust Unit #3	1/1	0	
4	Exhaust Unit #4	1/1	0	
5	Exhaust Unit #5	1/1	0	
6	Warehouse MAU	1/1	0	
7	Plant MAU	1/1	0	
9	Scrubber #8	1/1	0	

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Plating Facility Mechanical Systems

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Figure Unit #	System	Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	2/1	0	
2	Scrubber #2	2/1	2	} HOLIDAY JAN 1 + 2
3	Exhaust Unit #3	2/1	2	
4	Exhaust Unit #4	2/1	0	
5	Exhaust Unit #5	2/1	0	
6	Warehouse MAU	2/1	0	
7	Plant MAU	2/1	0	
8	Scrubber #8	2/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	3/1	0	
2	Scrubber #2	3/1	0	
3	Exhaust Unit #3	3/1	0	
4	Exhaust Unit #4	3/1	0	
5	Exhaust Unit #5	3/1	0	
6	Warehouse MAU	3/1	0	
7	Plant MAU	3/1	0	
9	Scrubber #8	3/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	4/1	0	
2	Scrubber #2	4/1	0	
3	Exhaust Unit #3	4/1	0	
4	Exhaust Unit #4	4/1	0	
5	Exhaust Unit #5	4/1	0	
6	Warehouse MAU	4/1	0	
7	Plant MAU	4/1	0	
9	Scrubber #8	4/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	5/1	0	
2	Scrubber #2	5/1	0	
3	Exhaust Unit #3	5/1	0	
4	Exhaust Unit #4	5/1	0	
5	Exhaust Unit #5	5/1	0	
6	Warehouse MAU	5/1	0	
7	Plant MAU	5/1	0	
9	Scrubber #8	5/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	6/1	0	
2	Scrubber #2	6/1	0	
3	Exhaust Unit #3	6/1	0	
4	Exhaust Unit #4	6/1	0	
5	Exhaust Unit #5	6/1	0	
6	Warehouse MAU	6/1	0	
7	Plant MAU	6/1	0	
9	Scrubber #8	6/1	0	

Figure Unit #	System	Monthly Inspection (date)	# of days down	Notes regarding down time or repairs to any Plating or warehouse mechanical systems
1	Scrubber #1	7/1	0	
2	Scrubber #2	7/1	0	
3	Exhaust Unit #3	7/1	0	
4	Exhaust Unit #4	7/1	0	
5	Exhaust Unit #5	7/1	0	
6	Warehouse MAU	7/1	0	
7	Plant MAU	7/1	0	
9	Scrubber #8	7/1	0	

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