

February 15, 2019

Mr. Mike Jagemann JAGEMANN PLATING CO., INC. 1324 South 26th Street Manitowoc, WI 54220 RECEIVED
FEB 1 9 2019
WI DNR - GREEN BAY

RE: Vapor Sampling Results for Property located at 1332 S. 26th Street, Manitowoc, WI Contaminant Detection Below WDNR Screening Levels

Jagemann Plating, 1324 South 26th Street, Manitowoc, WI; BRRTS #02-36-555544

Dear Mr. Jagemann:

This correspondence is to provide you with the results of the indoor air and the soil vapor sampling conducted during August 2018 and January 2019 at your building, located at 1332 S. 26th Street, Manitowoc, Wisconsin. The sampling was conducted by Robert E. Lee & Associates, Inc. (REL), as required by the Wisconsin Department of Natural Resources (WDNR) for the ongoing environmental investigation of a historic metals and chlorinated volatile organic compound (CVOC) release identified at Jagemann Plating Co., Inc., located at 1324 South 26th Street, Manitowoc, Wisconsin (the Site).

The purpose of the sampling was to determine if vapors from CVOC-contaminated groundwater are migrating through soil, accumulating beneath the foundation of your building, and entering the indoor air. On August 21, 2018, two (2) sub-slab vapor samples (designated as SS-1 and SS-2) were collected from beneath the building via a sampling device installed in the floor in a vacant office and in the cutting room of the Nelson Sign & Graphics (Nelson Sign), respectively. Two (2) indoor air samples (designated as IA-1 and IA-2) were also collected from within the vacant office and the Nelson Signe cutting room. One (1) outdoor air sample (OA-1) was collected for background air quality data on this same day. The sample locations are shown in the attached Figure B.4.a.

On January 24, 2019, a second set of sub-slab samples (designated as SS-1 and SS-2) were collected from the same sampling devices and locations to confirm the initial vapor sampling results. Indoor and outdoor air samples were not required to be collected by WDNR.

The air and vapor samples were submitted to Pace Analytical Services, Inc., of Minneapolis, Minnesota for laboratory analysis of 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride.

February 15, 2019 Mr. Mike Jagemann JAGEMANN PLATING CO., INC. Page 2

YOUR TEST RESULTS

The August 2018 results showed a low concentration of PCE and TCE in the sub-slab vapor sample (SS-2) collected from the cutting room of Nelson Graphic. During the second sampling event in January 2019, results showed a low concentration of PCE in the sub-slab vapor again from SS-2; however, the concentrations were lower than the August 2018 results. Concentrations of TCE were not detected in the sub-slab vapor in the cutting room of Nelson Graphic during the January 2019.

Although PCE and TCE was detected in soil vapors beneath the building slab, the level at which these compounds was detected is such that it does not pose a threat to you or your tenants. This is called "a detection below screening level" and is explained in the enclosed fact sheet. The sub-slab soil vapor results are summarized in the attached Table A.4.1.

There were no detections of any of the chemicals of concern in the indoor air samples collected from the building during both the August 2018 and January 2019 sampling events. The indoor and outdoor air results are summarized in the attached Table A.4.2. Attached is a copy of the laboratory report for your sub-slab vapor and indoor air samples.

WHAT YOUR TEST RESULTS MEAN

The latest sample results from January 2019 confirm the previous test results from August 2018, indicating that there does not appear to be a risk of CVOC vapor entering your building from beneath the building slab. At this time, no further sampling is planned in the building. If it is determined in the future that additional sampling needs to be completed, REL will contact you to schedule another visit.

Please feel free to contact Mr. Tauren Beggs of the WDNR at 920-662-5178 with any questions or concerns regarding the sampling results and the required future actions at the Site. You may also contact us at 920-662-9641.

Sincerely,

ROBERT E. LEE & ASSOCIATES, INC.

Nicole L. LaPlant

1 wide L. Lallant

Geologist/Project Manager

Bruce D. Meissner, P.G., V.P.

Environmental Compliance Manager

NLL/BDM/NJM

ENC.

CC/ENC.:

Pat Nelson, Nelson Sign & Graphics LLC

Tauren Beggs, WDNR



ATTACHMENT A

WDNR FACT SHEETS:

"Understanding Chemical Vapor Intrusion Testing Results"



Understanding Chemical Vapor Intrusion Testing Results

RR-977 October 2014

From the Lab to You

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

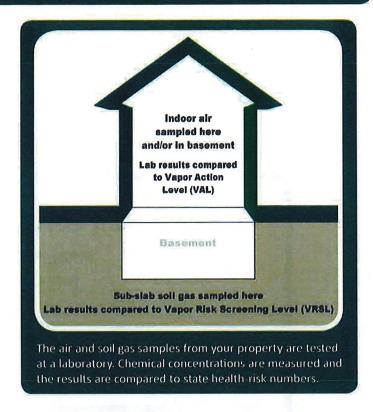
Indoor Air Testing Results

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

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

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

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



Sub-slab Soil Gas Testing Results

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

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





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

Follow-Up Actions

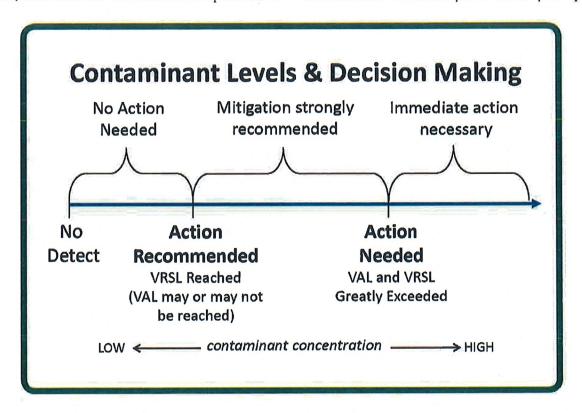
If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

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

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

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

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



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

The concentration of gaseous pollutants in air is typically described in two different ways: 1) as units of mass per volume, where µg/m3 represents micrograms of gaseous pollutant per cubic meter of ambient air; and 2) as parts per billion by volume (ppbv), where the volume of a gaseous pollutant is compared to a set volume of ambient air. These are the numbers that are compared to the VAL and VRSL.

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

This document contains information about certain state statutes and administrative rules but does not necessarily include all of the details found in the statutes and rules. Readers should consult the actual language of the statutes and rules to answer specific questions. The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of Interior, Washington, D.C. 20240. This publication is available in alternative format upon request. Please call 608-267-3543 for more information.



ATTACHMENT B

SUB-SLAB VAPOR/AMBIENT AIR ANALYTICAL RESULTS:

- Table A.4.1, Sub-slab Vapor Results
- Table A.4.2, Ambient Air Results

Table A.4.1 - 1332 S. 26th Street Sub-slab Vapor Sampling Results - Large Commercial/Industrial Jagemann Plating Co. Inc., Manitowoc, WI

					Relevant VOCs (µg/m	3)		
Sample ID	Sample Location	Date Collected	1,1-Dichloroethene	1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetra		Tetrachloroethene	Trichloroethene	Vinyl chloride
Residential Sub-	-Slab Vapor VRSL μg/m3		7,000	NE	NE	1,400	70	57
Small Commerc	Small Commercial Sub-Slab Vapor VRSL μg/m3			930 NE NE 1,400				57
Large Commerc	Large Commercial/Industrial Sub-Slab VRSL μg/m³			NE	NE NE		880	2,800
SS-1	1332 S. 26th Street - Vacant Office Closet	8/21/2018	<0.46	<0.37	<0.48	<0.53	<0.43	<0.21
		1/24/2019	<0.50	<0.40	<0.52	<0.57	<0.47	<0.23
SS-2	1332 S. 26th Street - Nelson Sign Cutting Room 8/21/2018		<0.49	<0.39	<0.51	2.5	2.5	<0.23
		1/24/2019	<0.50	<0.40	<0.52	1.1 J	<0.47	<0.23

Kev:

NE - No screening level established

< - Not detected above laboratory detection limits

µg/m3 - Micrograms per cubic meter

J - Estimated concentration at or above the laboratory Limit

of Detection and Limit of Quantitation

22

- Vapor Risk Screening Level (VRSL) exceeded

Notes:

- Samples were collected in 6-liter summa canister over a 30-minute period and analyzed using the U.S. EPA TO-15 analytical method
- 2.) The Vapor Risk Screening Level (VRSL) was obtained from WDNR's Quick Look-Up Table for Indoor Air Vapor Action Levels and Vapor Risk Screening Levels, based on November 2017 U.S. EPA Regional Screening Level Tables

Table A.4.2 - 1332 S. 26th Street Ambient Air Analytical Results Summary - Large Commercial/Industrial Jagemann Plating Co. Inc., Manitowoc, WI

						Relevant VOCs (µg/m³)		
Sample ID	Sample Type	Sample Location	Date Collected	1,1-Dichloroethene	1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloro		Tetrachloroethene	Trichloroethene	Vinyl Chloride
Residential Indoo	or Air Vapor Actic	m Level (VAL) μg/m³		210	NE	NE	42	2,1	1.7
Small Commerical Indoor Air Vapor Action Level (VAL) µg/m³				880	NE	NE	180	8.8	1.7
Large Commeric	rge Commerical/Industrial Indoor Air Vapor Action Level (VAL) µg/m³			880	NE	NE	180	8.8	28
IA-I	Indoor Air	1332 S. 26th Street - Vacant Office Closet (paired with sub-slab vapor sample SS-1)	8/21/2018	<0.42	<0.34	<0,44	<0.49	<0.40	<0.20
IA-2	Indoor Air	1332 S, 26th Street - Nelson Sign Cutting Room (paired with sub-slab vapor sample SS-2)	8/21/2018	<0.50	<0.40	<0.52	<0.57	<0.47	<0.23
OA-1	Outdoor Air	Outdoor Background (Upwind)	8/21/2018	<0.42	<0.34	<0.44	<0.49	<0.40	<0.20

Key:

NE - Not established

< - Not detected above laboratory detection limits

μg/m³ - Micrograms per cubic meter

J - Estimated concentration at or above the laboratory Limit of Detection and Limit of Quantitation

11 - Vapor Action Level (VAL) exceeded

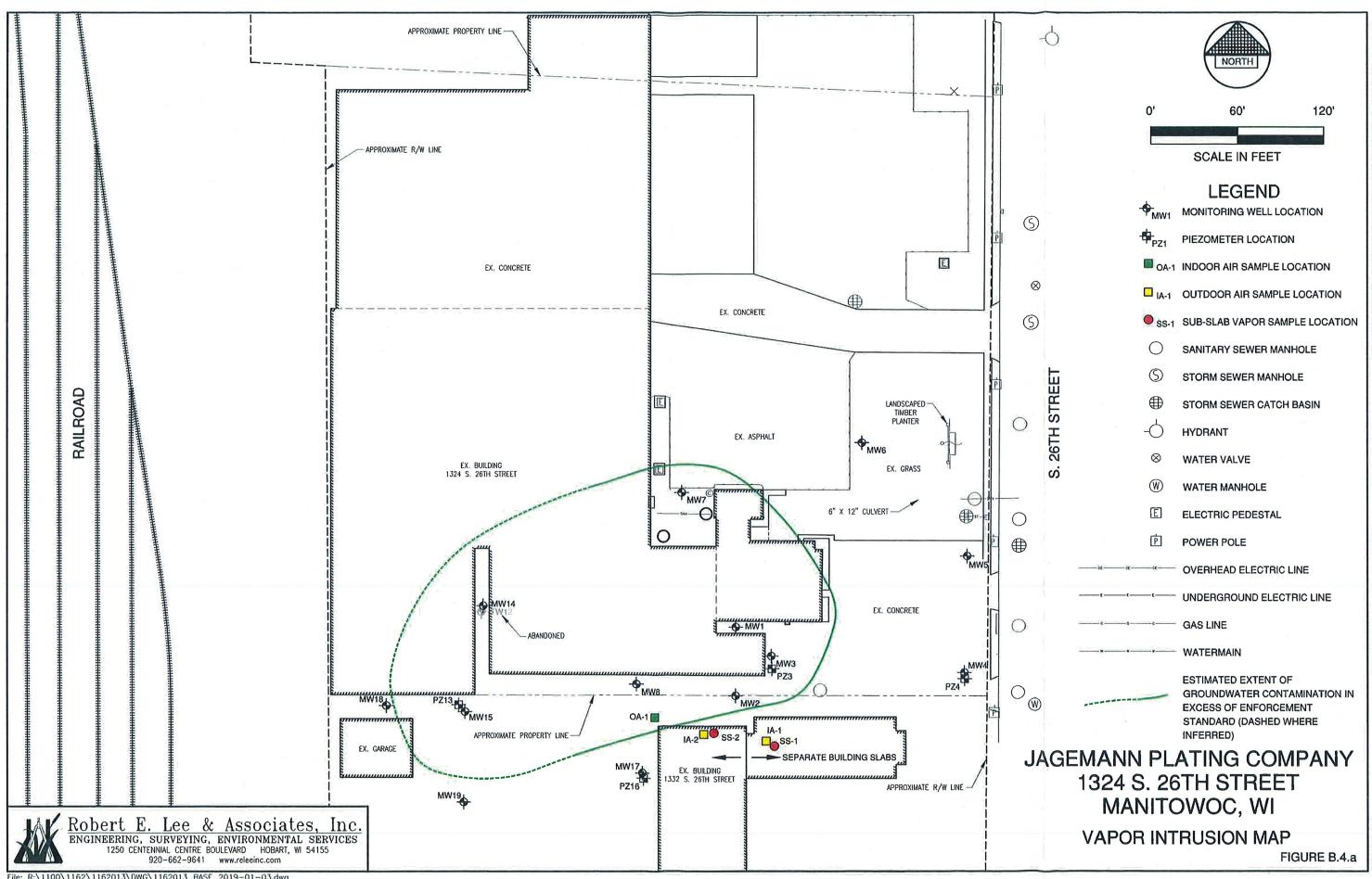
Notes:

- Samples were collected in 6-liter summa canister over an 8-hour period and analyzed using the U.S. EPA TO-15 analytical method
- 2.) The Vapor Action Level (VAL) was obtained from WDNR's Quick Look-Up Table for Indoor Air Vapor Action Levels and Vapor Risk Screening Levels, based on November 2017 U.S. EPA Regional Screening Level Tables



ATTACHMENT C

SAMPLE LOCATIONS, FIGURE B.4.A





ATTACHMENT D

LABORATORY REPORTS





January 28, 2019

Nicole LaPlant Robert E. Lee & Associates 1250 Centennial Center Blvd. Hobart, WI 54155

RE: Project: 1162-013 Jagemann Plating Co

Pace Project No.: 10462512

Dear Nicole LaPlant:

Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Kugh Herfrey

Kirsten Hogberg kirsten.hogberg@pacelabs.com (612)607-1700 Project Manager

Enclosures

cc: Cody Applecamp, Robert E Lee & Associates Bruce Meissner, Robert E. Lee & Associates







CERTIFICATIONS

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

10462512

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

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

CNMI Saipan Certification #: MP0003 Colorado Certification #: MN00064 Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-

053-137

Florida Certification #: E87605 Georgia Certification #: 959

Guam EPA Certification #: MN00064 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 #: 03086 Louisiana DW Certification #: MN00064

Maine Certification #: MN00064 Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
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 #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192

Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01



SAMPLE SUMMARY

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

10462512

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10462512001	SS-1	Air	01/24/19 12:13	01/25/19 08:35
10462512002	SS-2	Air	01/24/19 13:04	01/25/19 08:35





SAMPLE ANALYTE COUNT

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

10462512

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10462512001	SS-1	TO-15	MG2	6
10462512002	SS-2	TO-15	MG2	6



ANALYTICAL RESULTS

Project:

1162-013 Jagemann Plating Co

Pace Project No.: 10462512

Sample: SS-1	Lab ID:	10462512001	Collected	d: 01/24/1	9 12:13	Received: 01	1/25/19 08:35 Ma	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
1,1-Dichloroethene	<0.50	ug/m3	1.5	0.50	1.83		01/26/19 17:38	75-35-4	
cis-1,2-Dichloroethene	<0.40	ug/m3	1.5	0.40	1.83		01/26/19 17:38	156-59-2	
trans-1,2-Dichloroethene	<0.52	ug/m3	1.5	0.52	1.83		01/26/19 17:38	156-60-5	
Tetrachloroethene	< 0.57	ug/m3	1.3	0.57	1.83		01/26/19 17:38	127-18-4	
Trichloroethene	< 0.47	ug/m3	1.0	0.47	1.83		01/26/19 17:38	79-01-6	
Vinyl chloride	<0.23	ug/m3	0.48	0.23	1.83		01/26/19 17:38	75-01-4	
Sample: SS-2	Lab ID:	10462512002	Collected	i: 01/24/1	9 13:04	Received: 01	1/25/19 08:35 Ma	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
TO 13 MISV AIR									
1,1-Dichloroethene	<0.50	ug/m3	1.5	0.50	1.83		01/26/19 18:06	75-35-4	
1,1-Dichloroethene		ug/m3 ug/m3	1.5 1.5	0.50 0.40	1.83 1.83		01/26/19 18:06 01/26/19 18:06		
	<0.50	•						156-59-2	
1,1-Dichloroethene cis-1,2-Dichloroethene	<0.50 <0.40	ug/m3	1.5	0.40	1.83		01/26/19 18:06	156-59-2 156-60-5	
1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene	<0.50 <0.40 <0.52	ug/m3 ug/m3	1.5 1.5	0.40 0.52	1.83 1.83		01/26/19 18:06 01/26/19 18:06	156-59-2 156-60-5 127-18-4	



QUALITY CONTROL DATA

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

10462512

QC Batch:

587484

Analysis Method:

TO-15

QC Batch Method:

TO-15

Analysis Description:

TO15 MSV AIR Low Level

Associated Lab Samples:

, ,

10462512001, 10462512002

METHOD BLANK: 3180038 Associated Lab Samples: 1

10462512001, 10462512002

Matrix: Air

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/m3	<0.14	0.40	01/26/19 09:01	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	01/26/19 09:01	
Tetrachloroethene	ug/m3	<0.16	0.34	01/26/19 09:01	
trans-1,2-Dichloroethene	ug/m3	< 0.14	0.40	01/26/19 09:01	
Trichloroethene	ug/m3	<0.13	0.27	01/26/19 09:01	
Vinyl chloride	ug/m3	< 0.063	0.13	01/26/19 09:01	

LABORATORY CONTROL SAMPL	E: 3180039	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1-Dichloroethene	ug/m3	40.3	42.8	106	70-130	
cis-1,2-Dichloroethene	ug/m3	40.3	45.9	114	70-130	
Tetrachloroethene	ug/m3	68.9	77.7	113	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	43.8	109	70-130	
Trichloroethene	ug/m3	54.6	63.1	116	70-130	
Vinyl chloride	ug/m3	26	25.5	98	70-130	

		10462520001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,1-Dichloroethene	ug/m3	<1.2	<0.42		25	
cis-1,2-Dichloroethene	ug/m3	<1.2	< 0.33		25	
Tetrachloroethene	ug/m3	8.9	8.8	1	25	
trans-1,2-Dichloroethene	ug/m3	<1.2	< 0.43		25	
Trichloroethene	ug/m3	<0.83	< 0.39		25	
Vinyl chloride	ug/m3	<0.40	<0.19		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.





QUALIFIERS

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

10462512

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

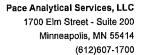
U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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.

Date: 01/28/2019 11:42 AM





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

Date: 01/28/2019 11:42 AM

10462512

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10462512001	SS-1	TO-15	587484		
10462512002	SS-2	TO-15	587484		



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



	Section B Required Project Inform	nation:		Section	C nformation:											3	74	20	Page:	of	1
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Requested Due Date/TAT:	Project Number:	0-60	13	Pace Pro	file#:		75	772	7					Repo	rt Level	11	111,	IV			
AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Code: MEDIA Tediar Beg TB 1 Liter Summa Can 1LC 6 Liter Summa Can 5LC Low Volume Pulf LVP High Volume Pulf HVP Other PM10	MEDIA CODE PID Reading (Client only)	COMPOSITE STAF	COLLE	COME	OSITE - GPAR	Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - in Hg)	Sui C	mma an nber		Fic Con Num	trol	Metho	nd:		(a)	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		ee our	ent
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Pace Analytical*

Document Name:
Air Sample Condition Upon Receipt
Document No.:

Document Revised: 110ct2018
Page 1 of 1
Issuing Authority:

F-MN-A-106-rev.16 Pace Minnesota Quality Office Air Sample Condition **Client Name:** Project #: 1 **Upon Receipt** Courler: Fed Ex PM: KNH Due Date: 02/07/19 Speedee Client ☐ Commercial Pace Other: CLIENT: RELEE Tracking Number: 4,54,5 Custody Seal on Cooler/Box Present? Yes No Optional: Proj. Due Date: Seals Intact? Yes □N0 Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other:_ Temp Blank rec: Yes No Temp. (TO17 and TO13 samples only) (°C): and Corrected Temp (°C): and Thermom. Used: □G87A9170600254 Temp should be above freezing to 6°C Correction Factor: Date & Initials of Person Examining Contents: Type of Ice Received Blue Wet Mone Comments: Chain of Custody Present? □No Chain of Custody Filled Out? Yes □No 2. Chain of Custody Relinquished? **☑**Yes □No 3. Sampler Name and/or Signature on COC? □No □N/A 4. Samples Arrived within Hold Time? Yes □No 5. Short Hold Time Analysis (<72 hr)? ØN₀ □Yes б. Rush Turn Around Time Requested? □Yes **M**No 7. Sufficient Volume? ZYes □No 8. Correct Containers Used? **☑**Yes □No 9. -Pace Containers Used? □ No Containers Intact? Æ∆Yes □No 10. Media: Air Can Airbag Filter TOT **Passive** 11. Individually Certified Cans N list which samples) is sufficient information available to reconcile samples to the COC? □No. Samples Received: FFF Pressure Gauge # 10AIR35 Canisters Canisters Flow Initial Final Flow Initial Final Sample Number Can ID Controller Pressure Pressure Sample Number Can ID Controller Pressure Pressure CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No Person Contacted: Date/Time: Comments/Resolution: Project Manager Review: Date: 1/25/2019 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)





August 30, 2018

Nicole LaPlant Robert E. Lee & Associates 1250 Centennial Center Blvd. Hobart, WI 54155

RE: Project: 1162-013 Jagemann Plating Co

Pace Project No.: 10444812

Dear Nicole LaPlant:

Enclosed are the analytical results for sample(s) received by the laboratory on August 24, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Kirsten Hogberg

Kingh Herfrey

kirsten.hogberg@pacelabs.com

(612)607-1700

Project Manager

Enclosures

cc: Cody Applecamp, Robert E Lee & Associates Bruce Meissner, Robert E. Lee & Associates







CERTIFICATIONS

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

10444812

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

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

CNMI Saipan Certification #: MP0003 Colorado Certification #: MN00064 Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-

053-137

Florida Certification #: E87605 Georgia Certification #: 959

Guam EPA Certification #: MN00064 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 #: 03086 Louisiana DW Certification #: MN00064 Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
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 #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Taxos Certification #: T104704192

Texas Certification #: T104704192 Utah Certification #: MN00064 Virginia Certification #: 460163 Washington Certification #: C486 West Virginia DW Certification #: 9952 C West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS



SAMPLE SUMMARY

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

10444812

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10444812001	OA-1	Air	08/21/18 16:18	08/24/18 13:30
10444812002	IA-1	Air	08/21/18 15:57	08/24/18 13:30
10444812003	IA-2	Air	08/21/18 16:35	08/24/18 13:30
10444812004	SS-1	Air	08/22/18 12:29	08/24/18 13:30
10444812005	SS-2	Air	08/22/18 12:40	08/24/18 13:30



SAMPLE ANALYTE COUNT

Project:

1162-013 Jagemann Plating Co

Pace Project No.: 10444812

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10444812001	OA-1	TO-15	MJL	6
10444812002	IA-1	TO-15	MJL	6
10444812003	IA-2	TO-15	MJL	6
10444812004	SS-1	TO-15	MJL	6
10444812005	SS-2	TO-15	MJL	6



ANALYTICAL RESULTS

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

Date: 08/30/2018 09:45 AM

10444812

Sample: OA-1	Lab ID:	10444812001	Collected	: 08/21/1	8 16:18	Received: 08	3/24/18 13:30 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
1,1-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.55		08/25/18 19:20	75-35-4	
cis-1,2-Dichloroethene	< 0.34	ug/m3	1.2	0.34	1.55		08/25/18 19:20	156-59-2	
trans-1,2-Dichloroethene	< 0.44	ug/m3	1.2	0.44	1.55		08/25/18 19:20	156-60-5	
Tetrachloroethene	< 0.49	ug/m3	1.1	0.49	1.55		08/25/18 19:20	127-18-4	
Trichloroethene	< 0.40	ug/m3	0.85	0.40	1.55		08/25/18 19:20	79-01-6	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		08/25/18 19:20	75-01-4	
Sample: IA-1	Lab ID:	10444812002	Collected	: 08/21/1	8 15:57	Received: 08	3/24/18 13:30 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
1,1-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.55		08/25/18 20:21	75-35-4	
cis-1,2-Dichloroethene	< 0.34	ug/m3	1.2	0.42	1.55		08/25/18 20:21		
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.55		08/25/18 20:21		
Tetrachloroethene	<0.49	ug/m3	1.1	0.49	1.55		08/25/18 20:21		
Trichloroethene	<0.40	ug/m3	0.85	0.40	1.55		08/25/18 20:21		
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		08/25/18 20:21		
Sample: IA-2	Lab ID:	10444812003	Collected	: 08/21/1	8 16:35	Received: 08	3/24/18 13:30 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15	- The second					-:	
1,1-Dichloroethene	<0.50	ug/m3	1.5	0.50	1.83		08/25/18 20:52	75-35-4	
cis-1,2-Dichloroethene	<0.40	ug/m3	1.5	0.40	1.83		08/25/18 20:52		
trans-1,2-Dichloroethene	<0.52	ug/m3	1.5	0.52	1.83		08/25/18 20:52		
Tetrachloroethene	< 0.57	ug/m3	1.3	0.57	1.83		08/25/18 20:52		
Trichloroethene	< 0.47	ug/m3	1.0	0.47	1.83		08/25/18 20:52		
Vinyl chloride	<0.23	ug/m3	0.48	0.23	1.83		08/25/18 20:52		
Sample: SS-1	Lab ID:	10444812004	Collected	: 08/22/1	8 12:29	Received: 08	3/24/18 13:30 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
1,1-Dichloroethene	<0.46	ug/m3	1.4	0.46	1.68		08/25/18 21:22	75-35-4	
							08/25/18 21:22		
cis-1,2-Dichloroethene	< 0.37	ug/m3	1.4	0.37	1,68		00/23/10 21.22	100-09-2	
	<0.37 <0.48	ug/m3 ug/m3	1.4 1.4	0.37 0.48	1.68 1.68		08/25/18 21:22		
cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene				0.37 0.48 0.53				156-60-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

10444812

Sample: SS-1	Lab ID:	10444812004	Collecte	d: 08/22/1	8 12:29	Received: 08/	/24/18 13:30 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
Vinyl chloride	<0.21	ug/m3	0.44	0.21	1.68		08/25/18 21:22	75-01-4	
Sample: SS-2	Lab ID:	10444812005	Collecte	d: 08/22/1	8 12:40	Received: 08/	/24/18 13:30 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15	;						
1,1-Dichloroethene	<0.49	ug/m3	1.4	0.49	1.79		08/26/18 19:21	75-35-4	
cis-1.2-Dichloroethene	< 0.39	ug/m3	1.4	0.39	1.79		08/26/18 19:21	156-59-2	
trans-1,2-Dichloroethene	<0.51	ug/m3	1.4	0.51	1.79		08/26/18 19:21	156-60-5	
Tetrachloroethene	2.5	ug/m3	1.2	0.56	1.79		08/26/18 19:21	127-18-4	
Trichloroethene	2.5	ug/m3	0.98	0.46	1.79		08/26/18 19:21	79-01-6	
Vinyl chloride	<0.23	ug/m3	0.47	0.23	1.79		08/26/18 19:21	75-01-4	



QUALITY CONTROL DATA

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

10444812

QC Batch:

559023

Analysis Method:

TO-15

QC Batch Method:

TO-15

Analysis Description:

TO15 MSV AIR Low Level

Associated Lab Samples:

10444812001, 10444812002, 10444812003, 10444812004

METHOD BLANK: 3035470

Matrix: Air

Associated Lab Samples: 10444812001, 10444812002, 10444812003, 10444812004

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/m3	<0.14	0.40	08/25/18 16:22	
cis-1,2-Dichloroethene	ug/m3	< 0.11	0.40	08/25/18 16:22	
Tetrachloroethene	ug/m3	<0.16	0.34	08/25/18 16:22	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.40	08/25/18 16:22	
Trichloroethene	ug/m3	< 0.13	0.27	08/25/18 16:22	
Vinyl chloride	ug/m3	< 0.063	0.13	08/25/18 16:22	

LABORATORY CONTROL SAMPLE:	3035471	Spike	LCS	LCS		% Rec	
Parameter	Units Conc.		Result % R		% Rec Limits		Qualifiers
1,1-Dichloroethene	ug/m3	40.3	36.5		90	70-137	
cis-1,2-Dichloroethene	ug/m3	40.3	35.9		89	70-136	
Tetrachloroethene	ug/m3	68.9	66.5	. 4	96	70-133	
trans-1,2-Dichloroethene	ug/m3	40.3	35.7		89	70-132	
Trichloroethene	ug/m3	54.6	51,2		94	70-135	
Vinyl chloride	ug/m3	26	22.6		87	70-141	

		10444736001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,1-Dichloroethene	ug/m3	ND	<0.27		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.22		25	
Tetrachloroethene	ug/m3	ND	< 0.31		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.28		25	
Trichloroethene	ug/m3	ND	< 0.26		25	
Vinyl chloride	ug/m3	ND	< 0.13		25	

SAMPLE DUPLICATE: 3035536						
		10444812001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,1-Dichloroethene	ug/m3	<0.42	<0.42		25	
cis-1,2-Dichloroethene	ug/m3	< 0.34	< 0.34		25	
Tetrachloroethene	ug/m3	< 0.49	< 0.49		25	
trans-1,2-Dichloroethene	ug/m3	<0.44	<0.44		25	
Trichloroethene	ug/m3	<0.40	< 0.40		25	
Vinyl chloride	ug/m3	<0.20	<0.20		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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QUALITY CONTROL DATA

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

10444812

QC Batch:

559035

Analysis Method:

TO-15

QC Batch Method:

TO-15

Analysis Description:

TO15 MSV AIR Low Level

Associated Lab Samples:

10444812005

Matrix: Air

METHOD BLANK: 3035543

Associated Lab Samples: 10444812005

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/m3	<0.27	0.81	08/26/18 11:07	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	08/26/18 11:07	
Tetrachloroethene	ug/m3	< 0.31	0.69	08/26/18 11:07	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	08/26/18 11:07	
Trichloroethene	ug/m3	<0.26	0.55	08/26/18 11:07	
Vinyl chloride	ug/m3	< 0.13	0.26	08/26/18 11:07	

LABORATORY CONTROL SAMPLE:	3035544	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1-Dichloroethene	ug/m3	40.3	40.8	101	70-137	
cis-1,2-Dichloroethene	ug/m3	40.3	38.9	97	70-136	
etrachloroethene	ug/m3	68:9	66.7	97	70-133	
ans-1,2-Dichloroethene	ug/m3	40.3	39.1	97	70-132	
richloroethene	ug/m3	54.6	52.5	96	70-135	
inyl chloride	ug/m3	26	25.6	99	70-141	

SAMPLE DUPLICATE: 3035871						
Parameter	Units	10444824001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/m3	7.5	7.4	2	25	
cis-1,2-Dichloroethene	ug/m3	23.7	24.1	2	25	
Tetrachloroethene	ug/m3	ND	< 0.90		25	
trans-1,2-Dichloroethene	ug/m3	3.2	3.5	9	25	
Trichloroethene	ug/m3	25.1	26.8	7	25	
Vinyl chloride	ug/m3	ND	< 0.36		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.





QUALIFIERS

Project:

1162-013 Jagemann Plating Co

Pace Project No.: 10444812

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

Date: 08/30/2018 09:45 AM





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

1162-013 Jagemann Plating Co

Pace Project No.:

Date: 08/30/2018 09:45 AM

10444812

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10444812001	OA-1	TO-15	559023		
10444812002	IA-1	TO-15	559023		
10444812003	IA-2	TO-15	559023		
10444812004	SS-1	TO-15	559023		
10444812005	SS-2	TO-15	559035		





WO# 10444812

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Section A Required Client Information:	Section B Required Project Information:		Section C Invoice Information:			r			36479	Page: of
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Madard@relscincom	Purchase Order No.:		Pace Quote Refere			The state of the s	V the abble description of the same section of	Location of	1.5	Reporting Units ugim²
Phone: #20662 4641 Fax:	The state of the s	ntlothy:Co	Pace Project Manag	ger/Sales Rep.				Sampling by S	tate UI	PPBV PPMV P
Requested Duc Date/TAT:	Project Number: 1162	-013	Pace Profile II:	Z3Z	72.73			Report Level	I IO IV	Other
'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valle Media Codes MEDIA	COMPOSITE STAR	FND	POSITE - 6	(finitial Fleid - (n Hg) Canister Pressure (Final Fleid - in Hg)	Summa Can Number	Flow Control Number	Method:		#BOX Comment
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ing Chorida 1700 Elm Street SE, Suite 200, Minneau	oolis, MN 55414 AirTec	hnical Phone: 61	2.607.6386						FC046F	lev.01, 03Feb2010

Face Analyt	ical®

Document Name: Air Sample Condition Upon Receipt Document No.: F-MN-A-105-rev.15 Document Revised: 02May2018
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Client Na Upon Receipt	_	1		ect #:	WO#:	104	4481	2		
Courler: Fed Ex Commerce Tracking Number: 4545	UPS	Speede Other:	Soc. ee Client		PM: CT1 CLIENT: F		Due Date:	·· ·	3	
Custody Seal on Cooler/Box Prese	nt? Yes	ZNo	Seals Intact?	∐Yes		Optional: Pr	oj. Due Date:	Proj. Name:		
Packing Material: Bubble Wra	p Bubble Ba	ngs Foar	n	TIn C	-		Temp I	Blank rec: 🔲	Yes No	
Temp. (TO17 and TO13 samples only) (Temp should be above freezing to 6°C Type of ice Received Blue DV	Correction Facto	Corrected Tem	p (°C): <u>×</u>		rmom. Used: e & Initials of Pers	on Examinin	g Contents:	□G87A91706 □G87A91551 \$-24-1		
	70.64					Co	mments:			
Chain of Custody Present?		Yes	□No	1.						
Chain of Custody Filled Out?		□Yes	□No	2.						
Chain of Custody Relinquished?		□res	□No	3.						
Sampler Name and/or Signature on	COC?	Ves	□No □N	I/A 4.						
Samples Arrived within Hold Time?		☐ Yes	□No	5,						
Short Hold Time Analysis (<72 hr)?	-	Yes	DNo	6.						
Rush Turn Around Time Requested	?	☐Yes	DAG.	7,						
Sufficient Volume?		Ves	□No	8.						
Correct Containers Used?		es	□No	9.						
-Pace Containers Used?		Ves	□No							
Containers Intact?		□ res	∐No	10.						
Media: Alf Can Airbag	Filter	TDT	Passive	11.	Individua	lly Certified	Cans Y (N	(ljst which sa	mples)	
Is sufficient information available to to the COC?	reconcile samples	s □res	□No	12.						
Samples Received: FFF (-1700	res			•	Pressure G	auge # 10AIR	26		
Canisters			****]	Canisters					
	Flow	Initial	Final		, , , , , , , , , , , , , , , , , , ,		Flow	Initial	Final	
Sample Number Can II	Controller	Pressure	Pressure	Sam	ple Number	Can ID	Controller	Pressure	Pressure	
OA-(-4	75				ļ			
1A-1			11							
<u> IA-Z</u>		~ 8	f1			***************************************				
<u> </u>		<u>-φ</u>	,				ļ		<u> </u>	
<u> 55-7</u>		-7.5	11							
								4n+1		
			-1.							
CLIENT NOTIFICATION/RESOLUTIO						Field Data	Required?	Yes No)	
Person Contacted:				Date,	/Time:	· · · · · · · · · · · · · · · · · · ·				
Comments/Resolution:	~									
Broinet Manager Poulous		. 2/				08/24/18				
Project Manager Review: Note: Whenever there is a discrepancy a hold, incorrect preservative, out of temp,	ffecting North Caro incorrest container	lina compliance	samples, a copy	of this fo	Date: rm will be sent to	the North Ca	rolina DEHNR Co	ertification Offi	ce (i.e out o	