

**From:** Jeanne Tarvin <jtarvin@ramboll.com>  
**Sent:** Friday, August 13, 2021 3:00 PM  
**To:** McKnight, Kevin - DNR; Tom Nordgren  
**Cc:** Susan Petrofske; Paul Lindquist; Hudson Green; Jones, Kristin; Borski, Jennifer - DNR; Hedman, Curtis J - DHS  
**Subject:** VI Sampling Results - Former Mirro #20 Chilton 02-08-520157  
**Attachments:** DRAFT Table 1. Air Sample Analytical Results\_August 2021.pdf; 10573629\_frc.pdf

Kevin and Tom,

Attached for your review are the air sample analytical results (laboratory report and draft data table) from the testing completed on August 6, 2021 at the Former Mirro Plant 20 site in Chilton. Consistent with the scope of work described in our August 4, 2021 e-mail (below), three indoor air (8-hr) samples were collected from the basement level and four sub-slab vapor samples were collected from the machine shop (slab on grade portion of the first floor). The analytical results documented the presence of low-level concentrations of select CVOCs and PVOCs in the basement indoor air and first floor sub-slab vapor samples, however none of the detected concentrations exceeded their applicable VAL or VRSL. We are in the process of preparing a more formal data transmittal with a sample location figure, but wanted to share these favorable results with the group within 48 to 72 hrs upon our receipt of the data.

We would also like to coordinate a call with the WDNR team next week to discuss the results and our proposed next steps. Please let us know your general availability and we will work to coordinate a Teams call.

Please let us know if you have any questions or require additional information in the interim.

Regards, Jeanne

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---

**From:** Jeanne Tarvin <[jtardin@ramboll.com](mailto:jtardin@ramboll.com)>  
**Sent:** Wednesday, August 4, 2021 6:48 PM  
**To:** McKnight, Kevin - DNR <[Kevin.McKnight@wisconsin.gov](mailto:Kevin.McKnight@wisconsin.gov)>  
**Cc:** Susan Petrofske <[SPETROFSKE@ramboll.com](mailto:SPETROFSKE@ramboll.com)>; Paul Lindquist <[PLINDQUIST@ramboll.com](mailto:PLINDQUIST@ramboll.com)>; Hudson Green <[hgreen@patriotenviro.com](mailto:hgreen@patriotenviro.com)>; Sawula, Andrew N. <[asawula@schiffhardin.com](mailto:asawula@schiffhardin.com)>; Rodriguez, Gabriel M. <[grodriguez@schiffhardin.com](mailto:grodriguez@schiffhardin.com)>; Tom Nordgren <[tom.nordgren@ki.com](mailto:tom.nordgren@ki.com)>  
**Subject:** Summary of VI Sampling Approach at Mirro #20 Chilton 02-08-520157

Kevin – Thank you for taking the time to discuss WDNR’s request for additional vapor intrusion investigation at the above referenced site. As mentioned during our call, it remains Newell’s position that the CVOC impacted groundwater that is entering the East Sump is largely, if not wholly, the result of continued migration of the upgradient Larson’s Cleaner’s groundwater plume migrating onto the former Mirro 20 property. The scope of work presented in our approved site investigation work plan is intended to provide additional lines of evidence to further substantiate this position and support a future off-site liability exemption.

In the interim, Newell is prepared to conduct additional vapor intrusion investigation activities to further evaluate the potential for vapor intrusion risk to building occupants. As discussed, we are proposing a phased approach to allow us to quickly gather some initial data to guide future decisions. Ramboll is proposing to conduct the initial phase of this work yet this week, barring any issues gaining site access from the current property owner or tenants. The follow summarizes the scope of work that was verbally agreed upon during our call this afternoon.

Proposed Scope of Work for August 5 and 6, 2021

- Remove the temporary plastic sheeting that was placed over the three sumps in the basement.
- Complete an inventory of chemicals stored and used in the machine shop area. This assumes that a knowledgeable tenant representative is available to assist in this effort.
- Develop a floor plan sketch of the machine shop area and warehousing area on the first floor.
- Identify suitable locations for up to six sub-slab vapor points within the slab on grade portion of the machine shop.
- Install four sub-slab vapor sampling points within the eastern portion of the machine shop, closest to the area of documented CVOC impacts (sump and groundwater). Approximate sample locations shown on the attached figure. Note that two contingent sub-slab vapor sampling point locations will be identified should the results of the initial 4 samples indicate that further investigation is needed.
- Collect sub-slab vapor samples (30-min) from the four sub-slab sample points.
- Collect 3 indoor air samples (8-hr) from the basement level, located near each of the sumps and elevator shafts. Approximate sample locations are shown on the attached figure.
- Collect 1 concurrent outdoor air sample (8-hr) placed at an upwind location.
- Samples will be submitted for expedited analysis for the same target PVOCs and CVOCs analyte list utilized for the sump vapor samples. Barring any issues with sample shipment or lab capacity, the results should be available on or before August 13, 2021.
- Prior to leaving the site, reinstall the temporary plastic sheeting over the basement sumps as a temporary measure.

The results of this initial phase of testing will be provided to the WDNR and property owner within 48 to 72 hours of receipt of data. Based on these initial results, including an evaluation of chemical use within the machine shop, a determination will be made regarding the need for further vapor intrusion investigation including those additional items outlined in your e-mail.

Please let us know if you have any questions.

Regards, Jeanne

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**From:** McKnight, Kevin - DNR <[Kevin.McKnight@wisconsin.gov](mailto:Kevin.McKnight@wisconsin.gov)>  
**Sent:** Wednesday, August 4, 2021 9:56 AM  
**To:** Jeanne Tarvin <[jtarvin@ramboll.com](mailto:jtarvin@ramboll.com)>; Hudson Green <[hgreen@patriotenviro.com](mailto:hgreen@patriotenviro.com)>  
**Cc:** Susan Petrofske <[SPETROFSKE@ramboll.com](mailto:SPETROFSKE@ramboll.com)>; Paul Lindquist <[PLINDQUIST@ramboll.com](mailto:PLINDQUIST@ramboll.com)>;  
Hedman, Curtis J - DHS <[Curtis.Hedman@dhs.wisconsin.gov](mailto:Curtis.Hedman@dhs.wisconsin.gov)>; Borski, Jennifer - DNR  
<[Jennifer.Borski@wisconsin.gov](mailto:Jennifer.Borski@wisconsin.gov)>; [kristin.jones@newellco.com](mailto:kristin.jones@newellco.com); Tom Nordgren <[tom.nordgren@ki.com](mailto:tom.nordgren@ki.com)>  
**Subject:** RE: URGENT REVIEW RE: Mirro #20 Chilton 02-08-520157

Hudson and Jeanne,

Thank you for providing the additional information regarding the demographics of the workers at this site and the earlier email regarding CVOC use at the facility. Based on consultation with the Wisconsin Department of Health Services (DHS) and in line with Wis. Admin. Code ch. NR 708, the following additional sampling is requested to be collected as soon as possible to assess health risk to occupants as well as to delineate the degree and extent of contamination in air as required in Wis. Admin. Code ch. 716. Number of sub-slab and indoor air samples should be based on [DNR Guidance](#) for size of area being investigated.

Machine Shop:

- Sub-slab vapor samples (30-min grab)
- Confirm COVCs are not used in machine shop prior to indoor air sampling. If significant quantities are utilized at facility contact DNR for direction.
- Indoor air samples (14-day passive sampling and, 8-hr with quick turn analysis)

Portion of Building with Basement:

- Prior to performing additional indoor air sampling, the temporary sump covers should be removed to adequately assess indoor air mixing & risk to occupants
- Indoor air sampling (14-day passive sampling) in basement and 1<sup>st</sup> floor.

It is recommended that the TCE factsheet available on the [Vapor Intrusion Resources for Environmental Professionals](#) website under the "Health" tab be provided to the tenants of the facility. In the same location is a March 25, 2021 letter from DHS on appropriate timing to respond with mitigation when sub-slab vapor and indoor air is impacted for your planning purposes. For additional health related questions by you or the tenants, Curtis Hedman of DHS is available at by phone at (608)-266-6677 or by email at [Curtis.Hedman@dhs.wisconsin.gov](mailto:Curtis.Hedman@dhs.wisconsin.gov).

Regards,

Kevin

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Kevin D. McKnight

Phone: 920-808-0170 (This is the number you should use to contact me from this point forward)

[Kevin.McKnight@wisconsin.gov](mailto:Kevin.McKnight@wisconsin.gov)

---

**From:** Jeanne Tarvin <[jtarvin@ramboll.com](mailto:jtarvin@ramboll.com)>

**Sent:** Tuesday, August 03, 2021 4:44 PM

**To:** McKnight, Kevin - DNR <[Kevin.McKnight@wisconsin.gov](mailto:Kevin.McKnight@wisconsin.gov)>

**Cc:** Hudson Green <[hgreen@patriotenviro.com](mailto:hgreen@patriotenviro.com)>; Susan Petrofske <[SPETROFSKE@ramboll.com](mailto:SPETROFSKE@ramboll.com)>; Paul Lindquist <[PLINDQUIST@ramboll.com](mailto:PLINDQUIST@ramboll.com)>

**Subject:** URGENT REVIEW RE: Mirro #20 Chilton 02-08-520157

Kevin,

The following information was provided by the property owner (Tom Nordgren) regarding building use, occupancy, and demographics:

1. The basement is unoccupied.
2. The area directly above the basement is used by a storage tenant who sends in a couple of guys a few times per week to load trucks and move material.
3. The area on the ground floor that is adjacent to the basement is occupied by a machine shop with 21 employees, with the following demographic breakdown:
  - Females: 2 employees over 50 yrs old; 2 employees under 50 yrs old
  - Males: 10 employees over 50 yrs old; 7 employees under 50 yrs old

Please let us know if you have any questions or need for Newell to request additional information from the property owner and/or his tenants.

Regards, Jeanne

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---

**From:** Jeanne Tarvin <[jtarkin@ramboll.com](mailto:jtarkin@ramboll.com)>  
**Sent:** Tuesday, August 03, 2021 7:26 AM  
**To:** McKnight, Kevin - DNR <[Kevin.McKnight@wisconsin.gov](mailto:Kevin.McKnight@wisconsin.gov)>  
**Cc:** Susan Petrofske <[SPETROFSKE@ramboll.com](mailto:SPETROFSKE@ramboll.com)>; Paul Lindquist <[PLINDQUIST@ramboll.com](mailto:PLINDQUIST@ramboll.com)>; Hudson Green <[hgreen@patriotenviro.com](mailto:hgreen@patriotenviro.com)>  
**Subject:** FW: URGENT REVIEW RE: Mirro #20 Chilton 02-08-520157

Kevin, Newell is in the process of gathering the demographic information and will update you as soon as we have the information.

With respect to the use of solvents on site, chemical use on site from the 2020 Stantec Phase I ESA is shown below. The 2020 Stantec Phase I ESA report is on the BRRTS site.

### 5.3 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

The following table summarizes Stantec's observations during the Property reconnaissance.

Observations	Description/Location
<p><b>Hazardous Substances and Petroleum Products as Defined by CERCLA 42 U.S.C. § 9601(14):</b></p>	<p>Specific observations related to the current storage of hazardous substances and petroleum are shown in Appendix A and are consistent with current tenant operations. As the Site is active, a complete inventory of materials was not conducted as part of this Phase I ESA. The following provides an overview of easily identifiable materials.</p> <p>The workshop for recreational vehicle repair near the south corner of the second floor contained approximately two dozen containers (less than one gallon each) of materials (e.g. parts cleaner, Rustoleum®, spray paint/aerosols, gear lubricant and oil). No leaks were observed in any of these containers.</p> <p>Various five-gallon buckets were present near most machinery on the first floor of the building for collecting or conveying coolant used during machining. A shelving unit was observed in the northwestern portion of the factory on the first floor containing approximately two dozen containers consistent with Property use (e.g. break and metal parts cleaner, insecticide, Rustoleum®, spray paint/aerosols, sealant and paint) ranging from one quart to five gallons in size. No leaks were observed in any of these containers. Scrap metal storage was noted by the loading dock on the east side of the building.</p> <p>Signage throughout the basement and second floor provides indication of historic use/storage of hazardous substances and/or petroleum. Signage suggests materials stored in bulk include acids (basement), mineral spirits (basement), and a variety of paints/solvents (second floor).</p>
<p><b>Drums (≥ 5 gallons):</b></p>	<p>Specific observations related to the current storage of hazardous substances and petroleum are shown in Appendix A and appear consistent with current and prior uses. As the Site is active, an inventory of materials was not conducted as part of this Phase I ESA.</p> <p>Several 55-gallon drums containing cutting fluids, oils and lubricants were present on the first floor of the facility, which is consistent with the identified use. A 300-gallon plastic tote containing "Perkool" water-based cutting fluid was centrally located against the southwest building wall. Two, 300-gallon plastic totes for wastewater were observed on the east side of the building, along with a 300-gallon plastic tote partially filled with "Swiss machine waste oil". No leaking was observed in these containers.</p>

With respect to the disposal of solvents on site, the 2020 Phase I ESA indicates:

"The SHWIMS database lists the facility (FID: 408021130) as a "closed" former small quantity generator of hazardous waste that has been inactive since 2003. The RCRAInfo database lists the facility (WID006080691) as "inactive", with no hazardous waste generator information or biennial report available for the site as of 2004."

Newell or Ramboll has not done a chemical inventory on site or independently verified the Stantec information.

Thanks, Jeanne

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---

**From:** McKnight, Kevin - DNR <[Kevin.McKnight@wisconsin.gov](mailto:Kevin.McKnight@wisconsin.gov)>  
**Sent:** Monday, August 2, 2021 3:47 PM  
**To:** Jeanne Tarvin <[jtarvin@ramboll.com](mailto:jtarvin@ramboll.com)>  
**Cc:** Susan Petrofske <[SPETROFSKE@ramboll.com](mailto:SPETROFSKE@ramboll.com)>; Paul Lindquist <[PLINDQUIST@ramboll.com](mailto:PLINDQUIST@ramboll.com)>; Hudson Green <[hgreen@patriotenviro.com](mailto:hgreen@patriotenviro.com)>  
**Subject:** RE: URGENT REVIEW RE: Mirro #20 Chilton 02-08-520157

Jeanne,

Were you able to obtain the demographics for the workers in the warehouse and machine shop portion of the building as discussed on the 23rd? One additional question is whether the machine shop business uses chlorinated solvents. Once I receive this information I will confirm what is needed with DHS and forward the recommendations. Please contact me if you have any questions.

Regards,  
Kevin

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Kevin D. McKnight

Phone: 920-808-0170 (This is the number you should use to contact me from this point forward)  
[Kevin.McKnight@wisconsin.gov](mailto:Kevin.McKnight@wisconsin.gov)

---

**From:** Jeanne Tarvin <[jtarvin@ramboll.com](mailto:jtarvin@ramboll.com)>  
**Sent:** Monday, August 02, 2021 12:36 PM  
**To:** McKnight, Kevin - DNR <[Kevin.McKnight@wisconsin.gov](mailto:Kevin.McKnight@wisconsin.gov)>  
**Cc:** Susan Petrofske <[SPETROFSKE@ramboll.com](mailto:SPETROFSKE@ramboll.com)>; Paul Lindquist <[PLINDQUIST@ramboll.com](mailto:PLINDQUIST@ramboll.com)>; Hudson Green <[hgreen@patriotenviro.com](mailto:hgreen@patriotenviro.com)>  
**Subject:** FW: URGENT REVIEW RE: Mirro #20 Chilton 02-08-520157  
**Importance:** High

Kevin, The photographs you have requested are attached. I believe these are the photos we shared on our Teams meeting with you. Susan was having computer issues today so I am forwarding. Please feel free to reach out to Susan or I with any questions. Regards, Jeanne

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---

**From:** McKnight, Kevin - DNR <[Kevin.McKnight@wisconsin.gov](mailto:Kevin.McKnight@wisconsin.gov)>

**Sent:** Monday, August 2, 2021 9:08 AM

**To:** Susan Petrofske

**Subject:** Mirro #20 Chilton 02-08-520157

Susan,

I am having difficulty finding the sump photos for this site. I have a call with DHS this afternoon to discuss the VI results and would like to be able to use in this discussion. Can you please resend the photos?

Thank you.

Kevin

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**Kevin D. McKnight**

Hydrogeologist - Remediation and Redevelopment Program

Wisconsin Department of Natural Resources

Oshkosh Service Center

625 E CTY Y, Suite 700

Oshkosh WI 54901

Phone: 920-808-0170 (This is the number you should use to contact me from this point forward)

[Kevin.McKnight@wisconsin.gov](mailto:Kevin.McKnight@wisconsin.gov)



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This message and any attachments may contain confidential information protected by the attorney-client or other privilege. If you believe that it has been sent to you in error, please reply to the sender that you received the message in error. Then delete it. Thank you.  
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August 11, 2021

Susan Petrofske  
Ramboll US Consulting, Inc.  
234 West Florida St.  
5th floor  
Milwaukee, WI 53204

RE: Project: 1690019558 MIRRO PLANT 20  
Pace Project No.: 10573629

Dear Susan Petrofske:

Enclosed are the analytical results for sample(s) received by the laboratory on August 07, 2021. 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: Paul Lindquist, Ramboll US Consulting, Inc.



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

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### **Pace Analytical Services, LLC - Minneapolis MN**

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01\*

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

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009\*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014\*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

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

Florida Certification #: E87605\*

Georgia Certification #: 959

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 #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110\*

Oklahoma Certification #: 9507\*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001\*

Pennsylvania Certification #: 68-00563\*

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192\*

Utah Certification #: MN00064\*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163\*

Washington Certification #: C486\*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

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

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10573629001	IA-B-1	Air	08/06/21 13:25	08/07/21 09:00
10573629002	IA-B-1 Cert#0838	Air		08/07/21 09:00
10573629003	IA-B-2	Air	08/06/21 13:27	08/07/21 09:00
10573629004	IA-B-2 Cert#2135	Air		08/07/21 09:00
10573629005	IA-B-3	Air	08/06/21 13:29	08/07/21 09:00
10573629006	IA-B-3 Cert#2052	Air		08/07/21 09:00
10573629007	OA	Air	08/06/21 13:31	08/07/21 09:00
10573629008	OA Cert#2035	Air		08/07/21 09:00
10573629009	VP-1	Air	08/06/21 14:21	08/07/21 09:00
10573629010	VP-1 Cert#0240	Air		08/07/21 09:00
10573629011	VP-2	Air	08/06/21 14:52	08/07/21 09:00
10573629012	VP-2 Cert#0224	Air		08/07/21 09:00
10573629013	VP-3	Air	08/06/21 14:22	08/07/21 09:00
10573629014	VP-3 Cert#0326	Air		08/07/21 09:00
10573629015	VP-4	Air	08/06/21 15:04	08/07/21 09:00
10573629016	VP-4 Cert#1750	Air		08/07/21 09:00

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### SAMPLE ANALYTE COUNT

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10573629001	IA-B-1	TO-15	MJL	18
10573629002	IA-B-1 Cert#0838	TO-15	EMC	18
10573629003	IA-B-2	TO-15	MJL	18
10573629004	IA-B-2 Cert#2135	TO-15	GT	18
10573629005	IA-B-3	TO-15	MJL	18
10573629006	IA-B-3 Cert#2052	TO-15	EMC	18
10573629007	OA	TO-15	MJL	18
10573629008	OA Cert#2035	TO-15	GT	18
10573629009	VP-1	TO-15	MJL	18
10573629010	VP-1 Cert#0240	TO-15	HMH	18
10573629011	VP-2	TO-15	MJL	18
10573629012	VP-2 Cert#0224	TO-15	AFV	18
10573629013	VP-3	TO-15	MJL	18
10573629014	VP-3 Cert#0326	TO-15	AFV	18
10573629015	VP-4	TO-15	MJL	18
10573629016	VP-4 Cert#1750	TO-15	AFV	18

PASI-M = Pace Analytical Services - Minneapolis

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

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**Method:** TO-15

**Description:** TO15 MSV AIR

**Client:** Ramboll Environ- WI AIR

**Date:** August 11, 2021

**General Information:**

8 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.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

---

**Method:** TO-15

**Description:** Individual Can Certification

**Client:** Ramboll Environ- WI AIR

**Date:** August 11, 2021

**General Information:**

8 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.

**Additional Comments:**

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

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

Sample: IA-B-1 Lab ID: 10573629001 Collected: 08/06/21 13:25 Received: 08/07/21 09:00 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									
Benzene	1.4	ug/m3	0.50	0.18	1.55		08/09/21 14:30	71-43-2	
1,2-Dichloroethane	<0.30	ug/m3	1.3	0.30	1.55		08/09/21 14:30	107-06-2	
1,1-Dichloroethene	<0.21	ug/m3	1.2	0.21	1.55		08/09/21 14:30	75-35-4	
cis-1,2-Dichloroethene	0.32J	ug/m3	1.2	0.30	1.55		08/09/21 14:30	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/m3	1.2	0.26	1.55		08/09/21 14:30	156-60-5	
Ethylbenzene	1.3J	ug/m3	1.4	0.48	1.55		08/09/21 14:30	100-41-4	
Methyl-tert-butyl ether	<0.20	ug/m3	5.7	0.20	1.55		08/09/21 14:30	1634-04-4	
Naphthalene	<3.4	ug/m3	4.1	3.4	1.55		08/09/21 14:30	91-20-3	
Tetrachloroethene	2.7	ug/m3	1.1	0.45	1.55		08/09/21 14:30	127-18-4	
Toluene	6.1	ug/m3	1.2	0.38	1.55		08/09/21 14:30	108-88-3	
1,1,1-Trichloroethane	<0.29	ug/m3	1.7	0.29	1.55		08/09/21 14:30	71-55-6	
Trichloroethene	<0.30	ug/m3	0.85	0.30	1.55		08/09/21 14:30	79-01-6	
1,2,4-Trimethylbenzene	2.7	ug/m3	1.5	0.55	1.55		08/09/21 14:30	95-63-6	
1,3,5-Trimethylbenzene	1.3J	ug/m3	1.5	0.45	1.55		08/09/21 14:30	108-67-8	
Vinyl chloride	<0.13	ug/m3	0.40	0.13	1.55		08/09/21 14:30	75-01-4	
Xylene (Total)	6.3	ug/m3	4.1	1.0	1.55		08/09/21 14:30	1330-20-7	
m&p-Xylene	4.2	ug/m3	2.7	1.0	1.55		08/09/21 14:30	179601-23-1	
o-Xylene	2.1	ug/m3	1.4	0.42	1.55		08/09/21 14:30	95-47-6	

Sample: IA-B-1 Cert#0838 Lab ID: 10573629002 Collected: Received: 08/07/21 09:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	<0.11	ug/m3	0.32	0.11	1		07/23/21 11:33	71-43-2	
1,2-Dichloroethane	<0.19	ug/m3	0.82	0.19	1		07/23/21 11:33	107-06-2	
1,1-Dichloroethene	<0.14	ug/m3	0.81	0.14	1		07/23/21 11:33	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/m3	0.81	0.20	1		07/23/21 11:33	156-59-2	
trans-1,2-Dichloroethene	<0.17	ug/m3	0.81	0.17	1		07/23/21 11:33	156-60-5	
Ethylbenzene	<0.31	ug/m3	0.88	0.31	1		07/23/21 11:33	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/m3	3.7	0.13	1		07/23/21 11:33	1634-04-4	
Naphthalene	<2.2	ug/m3	2.7	2.2	1		07/23/21 11:33	91-20-3	
Tetrachloroethene	<0.29	ug/m3	0.69	0.29	1		07/23/21 11:33	127-18-4	
Toluene	<0.24	ug/m3	0.77	0.24	1		07/23/21 11:33	108-88-3	
1,1,1-Trichloroethane	<0.19	ug/m3	1.1	0.19	1		07/23/21 11:33	71-55-6	
Trichloroethene	<0.20	ug/m3	0.55	0.20	1		07/23/21 11:33	79-01-6	
1,2,4-Trimethylbenzene	<0.35	ug/m3	1.0	0.35	1		07/23/21 11:33	95-63-6	
1,3,5-Trimethylbenzene	<0.29	ug/m3	1.0	0.29	1		07/23/21 11:33	108-67-8	
Vinyl chloride	<0.087	ug/m3	0.26	0.087	1		07/23/21 11:33	75-01-4	
Xylene (Total)	<0.64	ug/m3	2.6	0.64	1		07/23/21 11:33	1330-20-7	
m&p-Xylene	<0.64	ug/m3	1.8	0.64	1		07/23/21 11:33	179601-23-1	
o-Xylene	<0.27	ug/m3	0.88	0.27	1		07/23/21 11:33	95-47-6	

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### ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

Sample: IA-B-2 Lab ID: 10573629003 Collected: 08/06/21 13:27 Received: 08/07/21 09:00 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									
Benzene	1.3	ug/m3	0.48	0.17	1.49		08/09/21 15:05	71-43-2	
1,2-Dichloroethane	<0.29	ug/m3	1.2	0.29	1.49		08/09/21 15:05	107-06-2	
1,1-Dichloroethene	<0.21	ug/m3	1.2	0.21	1.49		08/09/21 15:05	75-35-4	
cis-1,2-Dichloroethene	<0.29	ug/m3	1.2	0.29	1.49		08/09/21 15:05	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/m3	1.2	0.25	1.49		08/09/21 15:05	156-60-5	
Ethylbenzene	1.4	ug/m3	1.3	0.46	1.49		08/09/21 15:05	100-41-4	
Methyl-tert-butyl ether	<0.19	ug/m3	5.5	0.19	1.49		08/09/21 15:05	1634-04-4	
Naphthalene	3.3J	ug/m3	4.0	3.2	1.49		08/09/21 15:05	91-20-3	
Tetrachloroethene	1.8	ug/m3	1.0	0.44	1.49		08/09/21 15:05	127-18-4	
Toluene	6.7	ug/m3	1.1	0.36	1.49		08/09/21 15:05	108-88-3	
1,1,1-Trichloroethane	<0.28	ug/m3	1.7	0.28	1.49		08/09/21 15:05	71-55-6	
Trichloroethene	<0.29	ug/m3	0.81	0.29	1.49		08/09/21 15:05	79-01-6	
1,2,4-Trimethylbenzene	3.4	ug/m3	1.5	0.53	1.49		08/09/21 15:05	95-63-6	
1,3,5-Trimethylbenzene	1.8	ug/m3	1.5	0.43	1.49		08/09/21 15:05	108-67-8	
Vinyl chloride	<0.13	ug/m3	0.39	0.13	1.49		08/09/21 15:05	75-01-4	
Xylene (Total)	6.7	ug/m3	3.9	0.96	1.49		08/09/21 15:05	1330-20-7	
m&p-Xylene	4.5	ug/m3	2.6	0.96	1.49		08/09/21 15:05	179601-23-1	
o-Xylene	2.1	ug/m3	1.3	0.40	1.49		08/09/21 15:05	95-47-6	

Sample: IA-B-2 Cert#2135 Lab ID: 10573629004 Collected: Received: 08/07/21 09:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	<0.057	ug/m3	0.16	0.057	0.5		07/21/21 18:14	71-43-2	
1,2-Dichloroethane	<0.097	ug/m3	0.41	0.097	0.5		07/21/21 18:14	107-06-2	
1,1-Dichloroethene	<0.069	ug/m3	0.40	0.069	0.5		07/21/21 18:14	75-35-4	
cis-1,2-Dichloroethene	<0.098	ug/m3	0.40	0.098	0.5		07/21/21 18:14	156-59-2	
trans-1,2-Dichloroethene	<0.084	ug/m3	0.40	0.084	0.5		07/21/21 18:14	156-60-5	
Ethylbenzene	<0.15	ug/m3	0.44	0.15	0.5		07/21/21 18:14	100-41-4	
Methyl-tert-butyl ether	<0.063	ug/m3	1.8	0.063	0.5		07/21/21 18:14	1634-04-4	
Naphthalene	<1.1	ug/m3	1.3	1.1	0.5		07/21/21 18:14	91-20-3	
Tetrachloroethene	<0.15	ug/m3	0.34	0.15	0.5		07/21/21 18:14	127-18-4	
Toluene	<0.12	ug/m3	0.38	0.12	0.5		07/21/21 18:14	108-88-3	
1,1,1-Trichloroethane	<0.093	ug/m3	0.56	0.093	0.5		07/21/21 18:14	71-55-6	
Trichloroethene	<0.098	ug/m3	0.27	0.098	0.5		07/21/21 18:14	79-01-6	
1,2,4-Trimethylbenzene	<0.18	ug/m3	0.50	0.18	0.5		07/21/21 18:14	95-63-6	
1,3,5-Trimethylbenzene	<0.14	ug/m3	0.50	0.14	0.5		07/21/21 18:14	108-67-8	
Vinyl chloride	<0.043	ug/m3	0.13	0.043	0.5		07/21/21 18:14	75-01-4	
Xylene (Total)	<0.32	ug/m3	1.3	0.32	0.5		07/21/21 18:14	1330-20-7	
m&p-Xylene	<0.32	ug/m3	0.88	0.32	0.5		07/21/21 18:14	179601-23-1	
o-Xylene	<0.14	ug/m3	0.44	0.14	0.5		07/21/21 18:14	95-47-6	

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### ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

**Sample: IA-B-3**      **Lab ID: 10573629005**      Collected: 08/06/21 13:29      Received: 08/07/21 09:00      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									
Benzene	1.3	ug/m3	0.50	0.18	1.55		08/09/21 15:41	71-43-2	
1,2-Dichloroethane	<0.30	ug/m3	1.3	0.30	1.55		08/09/21 15:41	107-06-2	
1,1-Dichloroethene	<0.21	ug/m3	1.2	0.21	1.55		08/09/21 15:41	75-35-4	
cis-1,2-Dichloroethene	<0.30	ug/m3	1.2	0.30	1.55		08/09/21 15:41	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/m3	1.2	0.26	1.55		08/09/21 15:41	156-60-5	
Ethylbenzene	1.5	ug/m3	1.4	0.48	1.55		08/09/21 15:41	100-41-4	
Methyl-tert-butyl ether	<0.20	ug/m3	5.7	0.20	1.55		08/09/21 15:41	1634-04-4	
Naphthalene	<3.4	ug/m3	4.1	3.4	1.55		08/09/21 15:41	91-20-3	
Tetrachloroethene	1.3	ug/m3	1.1	0.45	1.55		08/09/21 15:41	127-18-4	
Toluene	7.4	ug/m3	1.2	0.38	1.55		08/09/21 15:41	108-88-3	
1,1,1-Trichloroethane	<0.29	ug/m3	1.7	0.29	1.55		08/09/21 15:41	71-55-6	
Trichloroethene	<0.30	ug/m3	0.85	0.30	1.55		08/09/21 15:41	79-01-6	
1,2,4-Trimethylbenzene	4.0	ug/m3	1.5	0.55	1.55		08/09/21 15:41	95-63-6	
1,3,5-Trimethylbenzene	1.7	ug/m3	1.5	0.45	1.55		08/09/21 15:41	108-67-8	
Vinyl chloride	<0.13	ug/m3	0.40	0.13	1.55		08/09/21 15:41	75-01-4	
Xylene (Total)	7.6	ug/m3	4.1	1.0	1.55		08/09/21 15:41	1330-20-7	
m&p-Xylene	5.1	ug/m3	2.7	1.0	1.55		08/09/21 15:41	179601-23-1	
o-Xylene	2.5	ug/m3	1.4	0.42	1.55		08/09/21 15:41	95-47-6	

**Sample: IA-B-3 Cert#2052**      **Lab ID: 10573629006**      Collected:      Received: 08/07/21 09:00      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	<0.11	ug/m3	0.32	0.11	1		07/27/21 11:19	71-43-2	
1,2-Dichloroethane	<0.19	ug/m3	0.82	0.19	1		07/27/21 11:19	107-06-2	
1,1-Dichloroethene	<0.14	ug/m3	0.81	0.14	1		07/27/21 11:19	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/m3	0.81	0.20	1		07/27/21 11:19	156-59-2	
trans-1,2-Dichloroethene	<0.17	ug/m3	0.81	0.17	1		07/27/21 11:19	156-60-5	
Ethylbenzene	<0.31	ug/m3	0.88	0.31	1		07/27/21 11:19	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/m3	3.7	0.13	1		07/27/21 11:19	1634-04-4	
Naphthalene	<2.2	ug/m3	2.7	2.2	1		07/27/21 11:19	91-20-3	
Tetrachloroethene	<0.29	ug/m3	0.69	0.29	1		07/27/21 11:19	127-18-4	
Toluene	<0.24	ug/m3	0.77	0.24	1		07/27/21 11:19	108-88-3	
1,1,1-Trichloroethane	<0.19	ug/m3	1.1	0.19	1		07/27/21 11:19	71-55-6	
Trichloroethene	<0.20	ug/m3	0.55	0.20	1		07/27/21 11:19	79-01-6	
1,2,4-Trimethylbenzene	<0.35	ug/m3	1.0	0.35	1		07/27/21 11:19	95-63-6	
1,3,5-Trimethylbenzene	<0.29	ug/m3	1.0	0.29	1		07/27/21 11:19	108-67-8	
Vinyl chloride	<0.087	ug/m3	0.26	0.087	1		07/27/21 11:19	75-01-4	
Xylene (Total)	<0.64	ug/m3	2.6	0.64	1		07/27/21 11:19	1330-20-7	
m&p-Xylene	<0.64	ug/m3	1.8	0.64	1		07/27/21 11:19	179601-23-1	
o-Xylene	<0.27	ug/m3	0.88	0.27	1		07/27/21 11:19	95-47-6	

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### ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

Sample: OA Lab ID: 10573629007 Collected: 08/06/21 13:31 Received: 08/07/21 09:00 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									
Benzene	0.39J	ug/m3	0.52	0.18	1.61		08/09/21 16:17	71-43-2	
1,2-Dichloroethane	<0.31	ug/m3	1.3	0.31	1.61		08/09/21 16:17	107-06-2	
1,1-Dichloroethene	<0.22	ug/m3	1.3	0.22	1.61		08/09/21 16:17	75-35-4	
cis-1,2-Dichloroethene	<0.31	ug/m3	1.3	0.31	1.61		08/09/21 16:17	156-59-2	
trans-1,2-Dichloroethene	<0.27	ug/m3	1.3	0.27	1.61		08/09/21 16:17	156-60-5	
Ethylbenzene	<0.50	ug/m3	1.4	0.50	1.61		08/09/21 16:17	100-41-4	
Methyl-tert-butyl ether	<0.20	ug/m3	5.9	0.20	1.61		08/09/21 16:17	1634-04-4	
Naphthalene	<3.5	ug/m3	4.3	3.5	1.61		08/09/21 16:17	91-20-3	
Tetrachloroethene	<0.47	ug/m3	1.1	0.47	1.61		08/09/21 16:17	127-18-4	
Toluene	0.50J	ug/m3	1.2	0.39	1.61		08/09/21 16:17	108-88-3	
1,1,1-Trichloroethane	<0.30	ug/m3	1.8	0.30	1.61		08/09/21 16:17	71-55-6	
Trichloroethene	<0.32	ug/m3	0.88	0.32	1.61		08/09/21 16:17	79-01-6	
1,2,4-Trimethylbenzene	<0.57	ug/m3	1.6	0.57	1.61		08/09/21 16:17	95-63-6	
1,3,5-Trimethylbenzene	<0.47	ug/m3	1.6	0.47	1.61		08/09/21 16:17	108-67-8	
Vinyl chloride	<0.14	ug/m3	0.42	0.14	1.61		08/09/21 16:17	75-01-4	
Xylene (Total)	<1.0	ug/m3	4.3	1.0	1.61		08/09/21 16:17	1330-20-7	
m&p-Xylene	<1.0	ug/m3	2.8	1.0	1.61		08/09/21 16:17	179601-23-1	
o-Xylene	<0.44	ug/m3	1.4	0.44	1.61		08/09/21 16:17	95-47-6	

Sample: OA Cert#2035 Lab ID: 10573629008 Collected: Received: 08/07/21 09:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	<0.057	ug/m3	0.16	0.057	0.5		07/26/21 10:00	71-43-2	
1,2-Dichloroethane	<0.097	ug/m3	0.41	0.097	0.5		07/26/21 10:00	107-06-2	
1,1-Dichloroethene	<0.069	ug/m3	0.40	0.069	0.5		07/26/21 10:00	75-35-4	
cis-1,2-Dichloroethene	<0.098	ug/m3	0.40	0.098	0.5		07/26/21 10:00	156-59-2	
trans-1,2-Dichloroethene	<0.084	ug/m3	0.40	0.084	0.5		07/26/21 10:00	156-60-5	
Ethylbenzene	<0.15	ug/m3	0.44	0.15	0.5		07/26/21 10:00	100-41-4	
Methyl-tert-butyl ether	<0.063	ug/m3	1.8	0.063	0.5		07/26/21 10:00	1634-04-4	
Naphthalene	<1.1	ug/m3	1.3	1.1	0.5		07/26/21 10:00	91-20-3	
Tetrachloroethene	0.16J	ug/m3	0.34	0.15	0.5		07/26/21 10:00	127-18-4	
Toluene	<0.12	ug/m3	0.38	0.12	0.5		07/26/21 10:00	108-88-3	
1,1,1-Trichloroethane	<0.093	ug/m3	0.56	0.093	0.5		07/26/21 10:00	71-55-6	
Trichloroethene	<0.098	ug/m3	0.27	0.098	0.5		07/26/21 10:00	79-01-6	
1,2,4-Trimethylbenzene	<0.18	ug/m3	0.50	0.18	0.5		07/26/21 10:00	95-63-6	
1,3,5-Trimethylbenzene	<0.14	ug/m3	0.50	0.14	0.5		07/26/21 10:00	108-67-8	
Vinyl chloride	<0.043	ug/m3	0.13	0.043	0.5		07/26/21 10:00	75-01-4	
Xylene (Total)	<0.32	ug/m3	1.3	0.32	0.5		07/26/21 10:00	1330-20-7	
m&p-Xylene	<0.32	ug/m3	0.88	0.32	0.5		07/26/21 10:00	179601-23-1	
o-Xylene	<0.14	ug/m3	0.44	0.14	0.5		07/26/21 10:00	95-47-6	

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### ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

Sample: VP-1 Lab ID: 10573629009 Collected: 08/06/21 14:21 Received: 08/07/21 09:00 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									
Benzene	<3.4	ug/m3	9.7	3.4	29.8		08/09/21 18:25	71-43-2	
1,2-Dichloroethane	<5.8	ug/m3	24.5	5.8	29.8		08/09/21 18:25	107-06-2	
1,1-Dichloroethene	<4.1	ug/m3	24.0	4.1	29.8		08/09/21 18:25	75-35-4	
cis-1,2-Dichloroethene	<5.8	ug/m3	24.0	5.8	29.8		08/09/21 18:25	156-59-2	
trans-1,2-Dichloroethene	<5.0	ug/m3	24.0	5.0	29.8		08/09/21 18:25	156-60-5	
Ethylbenzene	<9.2	ug/m3	26.3	9.2	29.8		08/09/21 18:25	100-41-4	
Methyl-tert-butyl ether	<3.8	ug/m3	109	3.8	29.8		08/09/21 18:25	1634-04-4	
Naphthalene	<64.7	ug/m3	79.3	64.7	29.8		08/09/21 18:25	91-20-3	
Tetrachloroethene	1220	ug/m3	20.5	8.7	29.8		08/09/21 18:25	127-18-4	
Toluene	<7.3	ug/m3	22.8	7.3	29.8		08/09/21 18:25	108-88-3	
1,1,1-Trichloroethane	45.9	ug/m3	33.1	5.5	29.8		08/09/21 18:25	71-55-6	
Trichloroethene	<5.8	ug/m3	16.3	5.8	29.8		08/09/21 18:25	79-01-6	
1,2,4-Trimethylbenzene	<10.5	ug/m3	29.8	10.5	29.8		08/09/21 18:25	95-63-6	
1,3,5-Trimethylbenzene	<8.6	ug/m3	29.8	8.6	29.8		08/09/21 18:25	108-67-8	
Vinyl chloride	<2.6	ug/m3	7.7	2.6	29.8		08/09/21 18:25	75-01-4	
Xylene (Total)	<19.1	ug/m3	79.0	19.1	29.8		08/09/21 18:25	1330-20-7	
m&p-Xylene	<19.1	ug/m3	52.7	19.1	29.8		08/09/21 18:25	179601-23-1	
o-Xylene	<8.1	ug/m3	26.3	8.1	29.8		08/09/21 18:25	95-47-6	

Sample: VP-1 Cert#0240 Lab ID: 10573629010 Collected: Received: 08/07/21 09:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	<0.11	ug/m3	0.32	0.11	1		07/28/21 10:47	71-43-2	
1,2-Dichloroethane	<0.19	ug/m3	0.82	0.19	1		07/28/21 10:47	107-06-2	
1,1-Dichloroethene	<0.14	ug/m3	0.81	0.14	1		07/28/21 10:47	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/m3	0.81	0.20	1		07/28/21 10:47	156-59-2	
trans-1,2-Dichloroethene	<0.17	ug/m3	0.81	0.17	1		07/28/21 10:47	156-60-5	
Ethylbenzene	<0.31	ug/m3	2.2	0.31	1		07/28/21 10:47	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/m3	3.7	0.13	1		07/28/21 10:47	1634-04-4	
Naphthalene	<2.2	ug/m3	2.7	2.2	1		07/28/21 10:47	91-20-3	
Tetrachloroethene	<0.29	ug/m3	0.69	0.29	1		07/28/21 10:47	127-18-4	
Toluene	<0.24	ug/m3	0.77	0.24	1		07/28/21 10:47	108-88-3	
1,1,1-Trichloroethane	<0.19	ug/m3	1.1	0.19	1		07/28/21 10:47	71-55-6	
Trichloroethene	<0.20	ug/m3	0.55	0.20	1		07/28/21 10:47	79-01-6	
1,2,4-Trimethylbenzene	<0.35	ug/m3	1.0	0.35	1		07/28/21 10:47	95-63-6	
1,3,5-Trimethylbenzene	<0.29	ug/m3	1.0	0.29	1		07/28/21 10:47	108-67-8	
Vinyl chloride	<0.087	ug/m3	0.26	0.087	1		07/28/21 10:47	75-01-4	
Xylene (Total)	<0.64	ug/m3	2.6	0.64	1		07/28/21 10:47	1330-20-7	
m&p-Xylene	<0.64	ug/m3	1.8	0.64	1		07/28/21 10:47	179601-23-1	
o-Xylene	<0.27	ug/m3	0.88	0.27	1		07/28/21 10:47	95-47-6	

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### ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

Sample: **VP-2** Lab ID: **10573629011** Collected: 08/06/21 14:52 Received: 08/07/21 09:00 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									
Benzene	<1.8	ug/m3	5.2	1.8	16.1		08/09/21 17:54	71-43-2	
1,2-Dichloroethane	<3.1	ug/m3	13.3	3.1	16.1		08/09/21 17:54	107-06-2	
1,1-Dichloroethene	<2.2	ug/m3	13.0	2.2	16.1		08/09/21 17:54	75-35-4	
cis-1,2-Dichloroethene	<3.1	ug/m3	13.0	3.1	16.1		08/09/21 17:54	156-59-2	
trans-1,2-Dichloroethene	<2.7	ug/m3	13.0	2.7	16.1		08/09/21 17:54	156-60-5	
Ethylbenzene	<5.0	ug/m3	14.2	5.0	16.1		08/09/21 17:54	100-41-4	
Methyl-tert-butyl ether	<2.0	ug/m3	58.9	2.0	16.1		08/09/21 17:54	1634-04-4	
Naphthalene	<34.9	ug/m3	42.8	34.9	16.1		08/09/21 17:54	91-20-3	
Tetrachloroethene	878	ug/m3	11.1	4.7	16.1		08/09/21 17:54	127-18-4	
Toluene	<3.9	ug/m3	12.3	3.9	16.1		08/09/21 17:54	108-88-3	
1,1,1-Trichloroethane	40.1	ug/m3	17.9	3.0	16.1		08/09/21 17:54	71-55-6	
Trichloroethene	<3.2	ug/m3	8.8	3.2	16.1		08/09/21 17:54	79-01-6	
1,2,4-Trimethylbenzene	<5.7	ug/m3	16.1	5.7	16.1		08/09/21 17:54	95-63-6	
1,3,5-Trimethylbenzene	<4.7	ug/m3	16.1	4.7	16.1		08/09/21 17:54	108-67-8	
Vinyl chloride	<1.4	ug/m3	4.2	1.4	16.1		08/09/21 17:54	75-01-4	
Xylene (Total)	<10.3	ug/m3	42.7	10.3	16.1		08/09/21 17:54	1330-20-7	
m&p-Xylene	<10.3	ug/m3	28.5	10.3	16.1		08/09/21 17:54	179601-23-1	
o-Xylene	<4.4	ug/m3	14.2	4.4	16.1		08/09/21 17:54	95-47-6	

Sample: **VP-2 Cert#0224** Lab ID: **10573629012** Collected: Received: 08/07/21 09:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	<0.11	ug/m3	0.32	0.11	1		07/22/21 12:24	71-43-2	
1,2-Dichloroethane	<0.19	ug/m3	0.82	0.19	1		07/22/21 12:24	107-06-2	
1,1-Dichloroethene	<0.14	ug/m3	0.81	0.14	1		07/22/21 12:24	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/m3	0.81	0.20	1		07/22/21 12:24	156-59-2	
trans-1,2-Dichloroethene	<0.17	ug/m3	0.81	0.17	1		07/22/21 12:24	156-60-5	
Ethylbenzene	<0.31	ug/m3	0.88	0.31	1		07/22/21 12:24	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/m3	3.7	0.13	1		07/22/21 12:24	1634-04-4	
Naphthalene	<2.2	ug/m3	2.7	2.2	1		07/22/21 12:24	91-20-3	
Tetrachloroethene	0.53J	ug/m3	0.69	0.29	1		07/22/21 12:24	127-18-4	
Toluene	<0.24	ug/m3	1.9	0.24	1		07/22/21 12:24	108-88-3	
1,1,1-Trichloroethane	<0.19	ug/m3	1.1	0.19	1		07/22/21 12:24	71-55-6	
Trichloroethene	<0.20	ug/m3	1.1	0.20	1		07/22/21 12:24	79-01-6	
1,2,4-Trimethylbenzene	<0.35	ug/m3	1.0	0.35	1		07/22/21 12:24	95-63-6	
1,3,5-Trimethylbenzene	<0.29	ug/m3	1.0	0.29	1		07/22/21 12:24	108-67-8	
Vinyl chloride	<0.087	ug/m3	0.52	0.087	1		07/22/21 12:24	75-01-4	
Xylene (Total)	<0.64	ug/m3	2.6	0.64	1		07/22/21 12:24	1330-20-7	
m&p-Xylene	<0.64	ug/m3	1.8	0.64	1		07/22/21 12:24	179601-23-1	
o-Xylene	<0.27	ug/m3	0.88	0.27	1		07/22/21 12:24	95-47-6	

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### ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

Sample: VP-3 Lab ID: 10573629013 Collected: 08/06/21 14:22 Received: 08/07/21 09:00 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									
Benzene	<0.83	ug/m3	2.4	0.83	7.3		08/09/21 17:23	71-43-2	
1,2-Dichloroethane	<1.4	ug/m3	6.0	1.4	7.3		08/09/21 17:23	107-06-2	
1,1-Dichloroethene	<1.0	ug/m3	5.9	1.0	7.3		08/09/21 17:23	75-35-4	
cis-1,2-Dichloroethene	<1.4	ug/m3	5.9	1.4	7.3		08/09/21 17:23	156-59-2	
trans-1,2-Dichloroethene	<1.2	ug/m3	5.9	1.2	7.3		08/09/21 17:23	156-60-5	
Ethylbenzene	<2.3	ug/m3	6.4	2.3	7.3		08/09/21 17:23	100-41-4	
Methyl-tert-butyl ether	<0.92	ug/m3	26.7	0.92	7.3		08/09/21 17:23	1634-04-4	
Naphthalene	<15.8	ug/m3	19.4	15.8	7.3		08/09/21 17:23	91-20-3	
Tetrachloroethene	501	ug/m3	5.0	2.1	7.3		08/09/21 17:23	127-18-4	
Toluene	2.1J	ug/m3	5.6	1.8	7.3		08/09/21 17:23	108-88-3	
1,1,1-Trichloroethane	15.9	ug/m3	8.1	1.4	7.3		08/09/21 17:23	71-55-6	
Trichloroethene	<1.4	ug/m3	4.0	1.4	7.3		08/09/21 17:23	79-01-6	
1,2,4-Trimethylbenzene	<2.6	ug/m3	7.3	2.6	7.3		08/09/21 17:23	95-63-6	
1,3,5-Trimethylbenzene	2.3J	ug/m3	7.3	2.1	7.3		08/09/21 17:23	108-67-8	
Vinyl chloride	<0.63	ug/m3	1.9	0.63	7.3		08/09/21 17:23	75-01-4	
Xylene (Total)	<4.7	ug/m3	19.3	4.7	7.3		08/09/21 17:23	1330-20-7	
m&p-Xylene	<4.7	ug/m3	12.9	4.7	7.3		08/09/21 17:23	179601-23-1	
o-Xylene	<2.0	ug/m3	6.4	2.0	7.3		08/09/21 17:23	95-47-6	

Sample: VP-3 Cert#0326 Lab ID: 10573629014 Collected: Received: 08/07/21 09:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	<0.11	ug/m3	0.32	0.11	1		07/27/21 22:43	71-43-2	
1,2-Dichloroethane	<0.19	ug/m3	0.82	0.19	1		07/27/21 22:43	107-06-2	
1,1-Dichloroethene	<0.14	ug/m3	0.81	0.14	1		07/27/21 22:43	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/m3	0.81	0.20	1		07/27/21 22:43	156-59-2	
trans-1,2-Dichloroethene	<0.17	ug/m3	0.81	0.17	1		07/27/21 22:43	156-60-5	
Ethylbenzene	<0.31	ug/m3	0.88	0.31	1		07/27/21 22:43	100-41-4	
Methyl-tert-butyl ether	0.38J	ug/m3	3.7	0.13	1		07/27/21 22:43	1634-04-4	
Naphthalene	<2.2	ug/m3	2.7	2.2	1		07/27/21 22:43	91-20-3	
Tetrachloroethene	<0.29	ug/m3	0.69	0.29	1		07/27/21 22:43	127-18-4	
Toluene	<0.24	ug/m3	1.9	0.24	1		07/27/21 22:43	108-88-3	
1,1,1-Trichloroethane	<0.19	ug/m3	1.1	0.19	1		07/27/21 22:43	71-55-6	
Trichloroethene	<0.20	ug/m3	1.1	0.20	1		07/27/21 22:43	79-01-6	
1,2,4-Trimethylbenzene	<0.35	ug/m3	1.0	0.35	1		07/27/21 22:43	95-63-6	
1,3,5-Trimethylbenzene	<0.29	ug/m3	1.0	0.29	1		07/27/21 22:43	108-67-8	
Vinyl chloride	<0.087	ug/m3	0.52	0.087	1		07/27/21 22:43	75-01-4	
Xylene (Total)	<0.64	ug/m3	2.6	0.64	1		07/27/21 22:43	1330-20-7	
m&p-Xylene	<0.64	ug/m3	1.8	0.64	1		07/27/21 22:43	179601-23-1	
o-Xylene	<0.27	ug/m3	0.88	0.27	1		07/27/21 22:43	95-47-6	

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### ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

Sample: VP-4 Lab ID: 10573629015 Collected: 08/06/21 15:04 Received: 08/07/21 09:00 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									
Benzene	1.7	ug/m3	0.48	0.17	1.49		08/09/21 16:52	71-43-2	
1,2-Dichloroethane	<0.29	ug/m3	1.2	0.29	1.49		08/09/21 16:52	107-06-2	
1,1-Dichloroethene	<0.21	ug/m3	1.2	0.21	1.49		08/09/21 16:52	75-35-4	
cis-1,2-Dichloroethene	<0.29	ug/m3	1.2	0.29	1.49		08/09/21 16:52	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/m3	1.2	0.25	1.49		08/09/21 16:52	156-60-5	
Ethylbenzene	1.2J	ug/m3	1.3	0.46	1.49		08/09/21 16:52	100-41-4	
Methyl-tert-butyl ether	<0.19	ug/m3	5.5	0.19	1.49		08/09/21 16:52	1634-04-4	
Naphthalene	3.8J	ug/m3	4.0	3.2	1.49		08/09/21 16:52	91-20-3	
Tetrachloroethene	74.9	ug/m3	1.0	0.44	1.49		08/09/21 16:52	127-18-4	
Toluene	5.9	ug/m3	1.1	0.36	1.49		08/09/21 16:52	108-88-3	
1,1,1-Trichloroethane	4.6	ug/m3	1.7	0.28	1.49		08/09/21 16:52	71-55-6	
Trichloroethene	0.47J	ug/m3	0.81	0.29	1.49		08/09/21 16:52	79-01-6	
1,2,4-Trimethylbenzene	2.9	ug/m3	1.5	0.53	1.49		08/09/21 16:52	95-63-6	
1,3,5-Trimethylbenzene	<0.43	ug/m3	1.5	0.43	1.49		08/09/21 16:52	108-67-8	
Vinyl chloride	<0.13	ug/m3	0.39	0.13	1.49		08/09/21 16:52	75-01-4	
Xylene (Total)	7.1	ug/m3	3.9	0.96	1.49		08/09/21 16:52	1330-20-7	
m&p-Xylene	4.7	ug/m3	2.6	0.96	1.49		08/09/21 16:52	179601-23-1	
o-Xylene	2.5	ug/m3	1.3	0.40	1.49		08/09/21 16:52	95-47-6	

Sample: VP-4 Cert#1750 Lab ID: 10573629016 Collected: Received: 08/07/21 09:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Individual Can Certification</b>									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Benzene	<0.057	ug/m3	0.16	0.057	0.5		07/01/21 09:39	71-43-2	
1,2-Dichloroethane	<0.097	ug/m3	0.41	0.097	0.5		07/01/21 09:39	107-06-2	
1,1-Dichloroethene	<0.069	ug/m3	0.40	0.069	0.5		07/01/21 09:39	75-35-4	
cis-1,2-Dichloroethene	<0.098	ug/m3	0.40	0.098	0.5		07/01/21 09:39	156-59-2	
trans-1,2-Dichloroethene	<0.084	ug/m3	0.40	0.084	0.5		07/01/21 09:39	156-60-5	
Ethylbenzene	<0.15	ug/m3	0.44	0.15	0.5		07/01/21 09:39	100-41-4	
Methyl-tert-butyl ether	<0.063	ug/m3	1.8	0.063	0.5		07/01/21 09:39	1634-04-4	
Naphthalene	<1.1	ug/m3	1.3	1.1	0.5		07/01/21 09:39	91-20-3	
Tetrachloroethene	<0.15	ug/m3	0.69	0.15	0.5		07/01/21 09:39	127-18-4	
Toluene	<0.12	ug/m3	0.38	0.12	0.5		07/01/21 09:39	108-88-3	
1,1,1-Trichloroethane	<0.093	ug/m3	0.56	0.093	0.5		07/01/21 09:39	71-55-6	
Trichloroethene	<0.098	ug/m3	0.27	0.098	0.5		07/01/21 09:39	79-01-6	
1,2,4-Trimethylbenzene	<0.18	ug/m3	0.50	0.18	0.5		07/01/21 09:39	95-63-6	
1,3,5-Trimethylbenzene	<0.14	ug/m3	0.50	0.14	0.5		07/01/21 09:39	108-67-8	
Vinyl chloride	<0.043	ug/m3	0.13	0.043	0.5		07/01/21 09:39	75-01-4	
Xylene (Total)	<0.32	ug/m3	1.3	0.32	0.5		07/01/21 09:39	1330-20-7	
m&p-Xylene	<0.32	ug/m3	0.88	0.32	0.5		07/01/21 09:39	179601-23-1	
o-Xylene	<0.14	ug/m3	0.44	0.14	0.5		07/01/21 09:39	95-47-6	

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### QUALITY CONTROL DATA

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

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QC Batch:	762154	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR Low Level
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10573629001, 10573629003, 10573629005, 10573629007, 10573629009, 10573629011, 10573629013, 10573629015

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METHOD BLANK: 4063584 Matrix: Air

Associated Lab Samples: 10573629001, 10573629003, 10573629005, 10573629007, 10573629009, 10573629011, 10573629013, 10573629015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.093	0.56	08/09/21 10:11	
1,1-Dichloroethene	ug/m3	<0.069	0.40	08/09/21 10:11	
1,2,4-Trimethylbenzene	ug/m3	<0.18	0.50	08/09/21 10:11	
1,2-Dichloroethane	ug/m3	<0.097	0.41	08/09/21 10:11	
1,3,5-Trimethylbenzene	ug/m3	<0.14	0.50	08/09/21 10:11	
Benzene	ug/m3	<0.057	0.16	08/09/21 10:11	
cis-1,2-Dichloroethene	ug/m3	<0.098	0.40	08/09/21 10:11	
Ethylbenzene	ug/m3	<0.15	0.44	08/09/21 10:11	
m&p-Xylene	ug/m3	<0.32	0.88	08/09/21 10:11	
Methyl-tert-butyl ether	ug/m3	<0.063	1.8	08/09/21 10:11	
Naphthalene	ug/m3	<1.1	1.3	08/09/21 10:11	
o-Xylene	ug/m3	<0.14	0.44	08/09/21 10:11	
Tetrachloroethene	ug/m3	<0.15	0.34	08/09/21 10:11	
Toluene	ug/m3	<0.12	0.38	08/09/21 10:11	
trans-1,2-Dichloroethene	ug/m3	<0.084	0.40	08/09/21 10:11	
Trichloroethene	ug/m3	<0.098	0.27	08/09/21 10:11	
Vinyl chloride	ug/m3	<0.043	0.13	08/09/21 10:11	
Xylene (Total)	ug/m3	<0.32	1.3	08/09/21 10:11	

LABORATORY CONTROL SAMPLE: 4063585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	59.3	100	70-130	
1,1-Dichloroethene	ug/m3	43.5	41.0	94	70-130	
1,2,4-Trimethylbenzene	ug/m3	54	65.7	122	70-142	
1,2-Dichloroethane	ug/m3	44.4	44.5	100	70-132	
1,3,5-Trimethylbenzene	ug/m3	53.7	62.5	116	70-143	
Benzene	ug/m3	34.8	35.7	102	70-131	
cis-1,2-Dichloroethene	ug/m3	43.4	43.2	99	70-137	
Ethylbenzene	ug/m3	47.8	54.6	114	70-142	
m&p-Xylene	ug/m3	95.4	109	114	70-141	
Methyl-tert-butyl ether	ug/m3	39.6	38.4	97	70-143	
Naphthalene	ug/m3	65.2	58.5	90	67-132	
o-Xylene	ug/m3	47.6	54.0	114	70-141	
Tetrachloroethene	ug/m3	73.4	71.2	97	70-130	
Toluene	ug/m3	41.6	45.6	110	70-138	
trans-1,2-Dichloroethene	ug/m3	43.6	41.1	94	70-130	

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: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

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LABORATORY CONTROL SAMPLE: 4063585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/m3	58.4	59.3	101	70-130	
Vinyl chloride	ug/m3	28	26.5	95	70-137	
Xylene (Total)	ug/m3	143	163	114	70-130	

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: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

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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.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1690019558 MIRRO PLANT 20

Pace Project No.: 10573629

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10573629001	IA-B-1	TO-15	762154		
10573629003	IA-B-2	TO-15	762154		
10573629005	IA-B-3	TO-15	762154		
10573629007	OA	TO-15	762154		
10573629009	VP-1	TO-15	762154		
10573629011	VP-2	TO-15	762154		
10573629013	VP-3	TO-15	762154		
10573629015	VP-4	TO-15	762154		
10573629002	IA-B-1 Cert#0838	TO-15	762811		
10573629004	IA-B-2 Cert#2135	TO-15	762811		
10573629006	IA-B-3 Cert#2052	TO-15	762811		
10573629008	OA Cert#2035	TO-15	762811		
10573629010	VP-1 Cert#0240	TO-15	762811		
10573629012	VP-2 Cert#0224	TO-15	762811		
10573629014	VP-3 Cert#0326	TO-15	762811		
10573629016	VP-4 Cert#1750	TO-15	762811		

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**AIR:** CHAIN  
The Chain-of-Custody is a

**WO# : 10573629**

Document



01080

Page: 1 of 1

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	<b>Program</b>
Company: <b>RAMBOLL</b>	Report To: <b>SUSAN PETROFSKE</b>	Attention: <b>SUSAN PETROFSKE</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
Address: <b>234 W. FLORIDA ST. 5TH FLOOR MILWAUKEE, WI 53204</b>	Copy To: <b>PAUL WANDLUST</b>	Company Name: <b>RAMBOLL</b>	
Email To: <b>KYLE HEINEMSTAD</b>	Purchase Order No.:	Address:	Location of Sampling by State: <b>WI</b>
Phone: <b>262 961 0129</b> Fax:	Project Name: <b>MIRRO PLANT 20</b>	Pace Quote Reference:	Reporting Units ug/m <sup>3</sup> <input checked="" type="checkbox"/> mg/m <sup>3</sup> <input type="checkbox"/> PPBV <input type="checkbox"/> PPMV <input type="checkbox"/> Other <input type="checkbox"/>
Requested Due Date/TAT: <b>08/10/2021</b>	Project Number: <b>165001558</b>	Pace Project Manager/Sales Rep:	Report Level: <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> Other
		Pace Profile #: <b>42948</b>	

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 - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated			TO-15 Short List (Other)	
					DATE	TIME	DATE	TIME																				
1	IA-B-1		6LL		8/6/21	0549	8/6/21	1325	-30	-3	0	8	3	8	1	0	1								X	001	002	
2	IA-B-2		6LL		8/6/21	0557	8/6/21	1327	-30	-3	2	1	3	5	0	0	8									X	003	004
3	IA-B-3		6LL		8/6/21	0553	8/6/21	1329	-30	-3	2	0	5	2	0	1	5									X	005	006
4	OA		6LL		8/6/21	0601	8/6/21	1331	-30	-3	2	0	3	5	1	8	9									X	007	008
5	SS-1		6LL		8/6/21	1337	8/6/21	1421	-29	-3	0	2	4	0	2	9	9									X	009	010
6	SS-2		6LL		8/6/21	1415	8/6/21	1452	-30	-3	2	2	4	3	1	9	7									X	011	012
7	SS-3		6LL		8/6/21	1340	8/6/21	1402	-29	-3	0	3	2	6	3	1	3									X	013	014
8	SS-4		6LL		8/6/21	1420	8/6/21	1504	-29	-3	1	7	5	0	1	0	0									X	015	016

Comments :  
- REPORT ANALYSIS PREVIOUSLY REPORTED FOR THIS PROJECT

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
KYLE HEINEMSTAD/RAMBOLL	8/6/21	1700	Chris Frank	8-7-21	900	Y	Y	Y
						Y	Y	Y
						Y	Y	Y
						Y	Y	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER: <b>KYLE HEINEMSTAD</b>	SIGNATURE of SAMPLER: <i>[Signature]</i>				
DATE Signed (MM / DD / YY) <b>08/06/2021</b>					

ORIGINAL





Document Name:  
Sample Condition Upon Receipt (SCUR) - Air

Document Revised: 24Mar2020

Page 1 of 1

Document No.:  
ENV-FRM-MIN4-0113 Rev.00

Pace Analytical Services -  
Minneapolis

Air Sample Condition  
Upon Receipt

Client Name:

RAMBOLL

Project #:

**WO# : 10573629**

Courier:  Fed Ex  UPS  USPS  Client  
 Pace  Speedee  Commercial  See Exception

PM: CT1 Due Date: 08/16/21  
CLIENT: Ramboll-WI

Tracking Number: 9550 9946 6920, 6931

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Tin Can  Other: \_\_\_\_\_ Temp Blank rec:  Yes  No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X

Thermometer Used:  G87A9170600254  
 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: X

Date & Initials of Person Examining Contents: 8-7-21 CMY

Type of ice Received  Blue  Wet  None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? (Tedlar bags not acceptable container for TO-14, TO-15 or APH) -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? (visual inspection/no leaks when pressurized)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans <u>Y</u> N (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. <u>SS-1 FC# IS WRONG ON COC</u>
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Gauge #  10AIR26  10AIR34  10AIR35  4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
1A-B-1	0838	1011	-4	+5					
" 2	2135	0061	-3	"					
" 3	2052	0154	-4	"					
0A	2035	1893	-5	"					
SS-1	0240	2933	-3	"					
" 2	0224	3197	-5	"					
" 3	0326	3121	-2.5	"					
" 4	1750	1003	-3	"					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: Carolynne Trust

Date: 8/9/21

**Table 1. Air Sample Analytical Results**

Former Mirro Plant No. 20  
 44 Walnut Street, Chilton, WI  
 BRRTS No.: 02-08-520157 (ERP) & 06-08-426946 (VPLE) FID: 408021130

Sample Location			Sample Type			Sample Date			P VOC										CVOC				
									Benzene	Ethylbenzene	Toluene	Xylene, o	Xylenes, m + p	Xylenes, Total	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Methyl-tert-butyl-ether	Naphthalene	1,1,1-Trichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene
Reporting Units:						µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
<b>VRSL Large Commercial/Industrial:</b>						<b>1,600</b>	<b>4,900</b>	<b>2,200,000</b>	<b>44,000</b>	<b>44,000</b>	<b>44,000</b>	<b>26,000</b>	<b>26,000</b>	<b>47,000</b>	<b>360</b>	<b>2,200,000</b>	<b>88,000</b>	<b>470</b>	<b>NS</b>	<b>18,000</b>	<b>NS</b>	<b>880</b>	<b>2,800</b>
<b>VAL Large Commercial/Industrial:</b>						<b>16</b>	<b>49</b>	<b>22,000</b>	<b>440</b>	<b>440</b>	<b>440</b>	<b>260</b>	<b>260</b>	<b>470</b>	<b>3.6</b>	<b>22,000</b>	<b>880</b>	<b>4.7</b>	<b>NS</b>	<b>180</b>	<b>NS</b>	<b>8.8</b>	<b>28</b>
IA-B-1 (Basement)	Indoor Air	08/06/2021	1.4	1.3 J	6.1	2.1	4.2	6.3	2.7	1.3 J	<0.20	<3.4	<0.29	<0.21	<0.30	0.32 J	2.7	<0.26	<0.30	<0.13			
IA-B-2 (Basement)	Indoor Air	08/06/2021	1.3	1.4	6.7	2.1	4.5	6.7	3.4	1.8	<0.19	3.3 J	<0.28	<0.21	<0.29	<0.29	1.8	<0.25	<0.29	<0.13			
IA-B-3 (Basement)	Indoor Air	08/06/2021	1.3	1.5	7.4	2.5	5.1	7.6	4.0	1.7	<0.20	<3.4	<0.29	<0.21	<0.30	<0.30	1.3	<0.26	<0.30	<0.13			
OA	Outdoor Air	08/06/2021	0.39 J	<0.50	0.50 J	<0.44	<1.0	<1.0	<0.57	<0.47	<0.20	<3.5	<0.30	<0.22	<0.31	<0.31	<0.47	<0.27	<0.32	<0.14			
VP-1 (Machine Shop)	Sub-Slab Vapor	08/06/2021	<3.4	<9.2	<7.3	<8.1	<19.1	<19.1	<10.5	<8.6	<3.8	<64.7	45.9	<4.1	<5.8	<5.8	1,220	<5.0	<5.8	<2.6			
VP-2 (Machine Shop)	Sub-Slab Vapor	08/06/2021	<1.8	<5.0	<3.9	<4.4	<10.3	<10.3	<5.7	<4.7	<2.0	<34.9	40.1	<2.2	<3.1	<3.1	878	<2.7	<3.2	<1.4			
VP-3 (Machine Shop)	Sub-Slab Vapor	08/06/2021	<0.83	<2.3	2.1 J	<2.0	<4.7	<4.7	<2.6	2.3 J	<0.92	<15.8	15.9	<1.0	<1.4	<1.4	501	<1.2	<1.4	<0.63			
VP-4 (Machine Shop)	Sub-Slab Vapor	08/06/2021	1.7	1.2 J	5.9	2.5	4.7	7.1	2.9	<0.43	<0.19	3.8 J	4.6	<0.21	<0.29	<0.29	74.9	<0.25	0.47 J	<0.13			
IA-B-1 Cert#0838	QA/QC	08/07/2021	<0.11	<0.31	<0.24	<0.27	<0.64	<0.64	<0.35	<0.29	<0.13	<2.2	<0.19	<0.14	<0.19	<0.20	<0.29	<0.17	<0.20	<0.087			
IA-B-2 Cert#2135	QA/QC	08/07/2021	<0.057	<0.15	<0.12	<0.14	<0.32	<0.32	<0.18	<0.14	<0.063	<1.1	<0.093	<0.069	<0.097	<0.098	<0.15	<0.084	<0.098	<0.043			
IA-B-3 Cert#2052	QA/QC	08/07/2021	<0.11	<0.31	<0.24	<0.27	<0.64	<0.64	<0.35	<0.29	<0.13	<2.2	<0.19	<0.14	<0.19	<0.20	<0.29	<0.17	<0.20	<0.087			
OA Cert#2035	QA/QC	08/07/2021	<0.057	<0.15	<0.12	<0.14	<0.32	<0.32	<0.18	<0.14	<0.063	<1.1	<0.093	<0.069	<0.097	<0.098	0.16 J	<0.084	<0.098	<0.043			
VP-1 Cert#0240	QA/QC	08/07/2021	<0.11	<0.31	<0.24	<0.27	<0.64	<0.64	<0.35	<0.29	<0.13	<2.2	<0.19	<0.14	<0.19	<0.20	<0.29	<0.17	<0.20	<0.087			
VP-2 Cert#0224	QA/QC	08/07/2021	<0.11	<0.31	<0.24	<0.27	<0.64	<0.64	<0.35	<0.29	<0.13	<2.2	<0.19	<0.14	<0.19	<0.20	0.53 J	<0.17	<0.20	<0.087			
VP-3 Cert#0326	QA/QC	08/07/2021	<0.11	<0.31	<0.24	<0.27	<0.64	<0.64	<0.35	<0.29	0.38 J	<2.2	<0.19	<0.14	<0.19	<0.20	<0.29	<0.17	<0.20	<0.087			
VP-4 Cert#1750	QA/QC	08/07/2021	<0.057	<0.15	<0.12	<0.14	<0.32	<0.32	<0.18	<0.14	<0.063	<1.1	<0.093	<0.069	<0.097	<0.098	<0.15	<0.084	<0.098	<0.043			

[O:MGP 7/21/21, C: LDH 7/21/2021, U:MGP 8/11/21, C:CMD 8/12/21]

**Notes:**  
 Plastic sheeting was removed approximately 24-hours prior to basement indoor air and sub-slab vapor sample collection. Plastic sheeting was replaced when sampling was completed.  
 Gray Text analyte not detected  
 Lab comments and definitions can be found in associated laboratory reports.

**Results & Flags:**  
 < = Concentration was not detected above the reported limit  
 J = Estimated concentration

**Acronyms:**  
 µg/m<sup>3</sup> = micrograms per cubic meter  
 BRRTS = Bureau for Remediation and Redevelopment Tracking System (Wisconsin Department of Natural Resources (WDNR))  
 CVOC = Chlorinated Volatile Organic Compound  
 EPA = Environmental Protection Agency  
 ERP = Environmental Repair Program  
 FID = facility identification number  
 NS = No Standard  
 PVOC = Petroleum Volatile Organic Compound  
 QA/QC = quality assurance and quality control  
 VAL = Vapor Action Level for indoor air  
 VPLE = Voluntary Party Liability Exemption  
 VRSL = Vapor Risk Screening Level (= VAL/Attenuation Factor) for subsurface samples  
 WI = Wisconsin

**Screening Levels:**  
 VALs and VRSLs based on U.S.EPA Regional Screening Level Tables; see <http://dnr.wi.gov/topic/brownfields/vapor.html> for more details.