

**From:** [Honea, William](#)  
**To:** [Campoli, Karen L - DNR](#)  
**Cc:** [Chad Fradette](#)  
**Subject:** RE: Next Steps for VI - Sturgeon Bay Launderers & Cleaners 02-15-576022  
**Date:** Tuesday, December 14, 2021 5:10:11 PM  
**Attachments:** [SI Results Form with Attachments.pdf](#)

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**CAUTION: This email originated from outside the organization.  
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Hi Karen,

On November 11<sup>th</sup>, we collected an indoor air sample from the basement of the on-site building and a manometer reading from the vapor system exhaust stack. Attached is a sample results notification with the data tabulated, a figure showing the sample location, and lab results. The manometer measured 0.35 inches of water at the stack.

Benzene was detected in the basement at 4.1 ug/m<sup>3</sup>, which is just above the residential VAL of 3.6 ug/m<sup>3</sup>. No other VOCs exceeded VALs. Looking back at the previous indoor air and sub-slab sampling data, it appears that benzene was below the VAL and well below the sub-slab VRSL in 2016. The only indoor air exceedance in 2016 was naphthalene, which was not detected in this round. A portion of the building is used as an art studio and gallery, and it's likely benzene was recently used in the building as it's commonly found in glues, adhesives, cleaning products, and paint strippers.

These results were provided to the property owner and occupant, and we have follow-up testing scheduled for this spring. Also, we are still working to document access attempts for vapor testing at the adjoining property.

Please feel free to reach out to me with any questions or concerns.

Thanks,  
Bill

**Bill Honea, PG**

Geologist

**Ayres Associates Inc**

**Office:** 920.498.1200 | **Direct:** 920.327.7815

[HoneaW@AyresAssociates.com](mailto:HoneaW@AyresAssociates.com)

[www.AyresAssociates.com](http://www.AyresAssociates.com)

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**From:** Campoli, Karen L - DNR <karen.campoli@wisconsin.gov>  
**Sent:** Tuesday, March 16, 2021 4:20 PM  
**To:** Chad Fradette <chad@evergreenwis.com>; Honea, William <HoneaW@AyresAssociates.com>  
**Cc:** Schultz, Josie M - DNR <josie.schultz@wisconsin.gov>  
**Subject:** FW: Next Steps for VI - Sturgeon Bay Launderers & Cleaners 02-15-576022

Hi Chad and Bill,

I spoke with our vapor team to discuss the proposed work plan, at this time, the DNR does not

approve of the proposed work plan. We will need to see a revised work plan and documentations of access attempts for the off-site property. Please see the summary below which states that sub-slab samples are recommended within the on-site building as well as within the off-site building.

Please feel free to contact Josie Schultz or myself with any questions regarding vapor sampling, gaining access and the requested revisions.

Thank you,

**We are committed to service excellence.**

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

Karen L. Campoli

Phone: (920) 510-4349

[karen.campoli@wisconsin.gov](mailto:karen.campoli@wisconsin.gov)

---

**From:** Schultz, Josie M - DNR <[josie.schultz@wisconsin.gov](mailto:josie.schultz@wisconsin.gov)>

**Sent:** Tuesday, March 16, 2021 12:53 PM

**To:** Campoli, Karen L - DNR <[karen.campoli@wisconsin.gov](mailto:karen.campoli@wisconsin.gov)>

**Subject:** Next Steps for VI - Sturgeon Bay Launderers & Cleaners 02-15-576022

Hi Karen,

Thank you for discussing the workplan for vapor sampling at the Sturgeon Bay Launderers & Cleaners Site. As discussed, DNR doesn't recommend soil gas sampling in lieu of sub-slab sampling, as soil gas sampling does not offer the same conditions and quality data as sampling vapor accumulation beneath a slab. Sub-slab sampling will be required at the on-site building located at 7 S. 2<sup>nd</sup> Ave, and off-site property located at 111 Michigan St in Sturgeon Bay.

You had mentioned that the off-site property located at 111 Michigan Street has denied access, however it sounds like it may have been a verbal request for access, and no access agreement was provided to the property owner. The RP and/or their representative are required to attempt to obtain signed off-site property access agreements through multiple, good-faith efforts. At a minimum, the RP must provide two written requests to the off-site property owner in attempt to obtain signed off-site property access agreements, and provide copy of letters and proof of receipts to DNR PM (e.g. certified mail receipt or signature and date acknowledging receipt during in-person visit). If after two attempts access is still denied, DNR is required to consult with Department of Health Services (DHS), and potentially local health, before DNR sends a third and final request for access via certified mail. The consultant and/or RP can find outreach tools including template letters and access agreements on DNR website at <https://dnr.wisconsin.gov/topic/Brownfields/Vapor.html>, under the *Community Outreach* tab.

Sampling at these two properties should follow [RR-986](#) sub-slab vapor sampling procedures, including:

- Three sub-slab probes per 5,000 sf with one probe for each additional 2,000 sf;
- two rounds of 30-minute sub-slab sampling, with at least one round performed during heating

season (i.e. winter);

- proper leak testing on both the sample train and sample probe; and
- sample analysis should be limited to the contaminants of concern; CVOCs (i.e. PCE, TCE, DCE, and Vinyl Chloride).

Please let the consultant and/or RP know that they can contact me directly if they have questions about the vapor sampling requirements, or gaining access.

Thanks,  
Josie

**We are committed to service excellence.**

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

Josie M. Schultz

Hydrogeologist – Northeast Region Remediation and Redevelopment Team

Wisconsin Department of Natural Resources

2984 Shawano Avenue, Green Bay, WI 54313-6727

Cell: 920-366-5685

[Josie.Schultz@Wisconsin.gov](mailto:Josie.Schultz@Wisconsin.gov)



[dnr.wi.gov](http://dnr.wi.gov)



**Notice:** This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

**NOTE:** Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

**Notification of Property Owners and Occupants:**

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

**Site Information**

|   |              |                    |          |
|---|--------------|--------------------|----------|
| Site Name                                   |              | DNR ID # (BRRTS #) |          |
| Sturgeon Bay Launderers & Cleaners (Former) |              | 02-15-576022       |          |
| Address                                     | City         | State              | ZIP Code |
| 7 S 2nd Ave                                 | Sturgeon Bay | WI                 | 54235    |

**Responsible Party**

The person(s) responsible for completing this environmental investigation is:

Property Owner

Allin Walker

|             |              |       |          |
|-------------|--------------|-------|----------|
| Address     | City         | State | ZIP Code |
| 7 S 2nd Ave | Sturgeon Bay | WI    | 54235    |

Contact Person

Allin Walker

Person or company that collected samples

Ayres Associates

**Sample Results (Results Attached)**

Reason for Sampling:  Routine  Other (define) \_\_\_\_\_

The contaminants that have been identified at this time on property that you own or occupy include:

| Contaminant        | In Soil?                         |                       | In Groundwater?       |                       |
|--------------------|----------------------------------|-----------------------|-----------------------|-----------------------|
|                    | Yes                              | No                    | Yes                   | No                    |
| Gasoline           | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Diesel or Fuel Oil | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Solvents           | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Heavy Metals       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pesticides         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: _____       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

|  |
|--|
| This sampling event included sampling of a drinking water well.<br><input type="radio"/> Yes <input checked="" type="radio"/> No |
| If yes, the sampled drinking water well had detectable contaminants.<br><input type="radio"/> Yes <input type="radio"/> No       |

**Contaminants in Vapor**

|                   | Yes                              | No                    |
|-------------------|----------------------------------|-----------------------|
| Indoor Air        | <input checked="" type="radio"/> | <input type="radio"/> |
| Sub-slab          | <input type="radio"/>            | <input type="radio"/> |
| Exterior Soil Gas | <input type="radio"/>            | <input type="radio"/> |

# Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

## Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

**You are not identified as the person that is responsible for this contamination.** However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

**Option for written exemption:** You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: [dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf](http://dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf).

## Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

### Environmental Consultant

|                          |                            |                          |             |            |          |
|--------------------------|----------------------------|--------------------------|-------------|------------|----------|
| Company Name             |                            | Contact Person Last Name |             | First Name |          |
| Ayres Associates         |                            | Honea                    |             | Bill       |          |
| Address                  |                            |                          | City        | State      | ZIP Code |
| 3376 Packerland Drive    |                            |                          | Ashwaubenon | WI         | 54115    |
| Phone # (inc. area code) | Email                      |                          |             |            |          |
| (920) 498-1200           | HoneaW@AyresAssociates.com |                          |             |            |          |

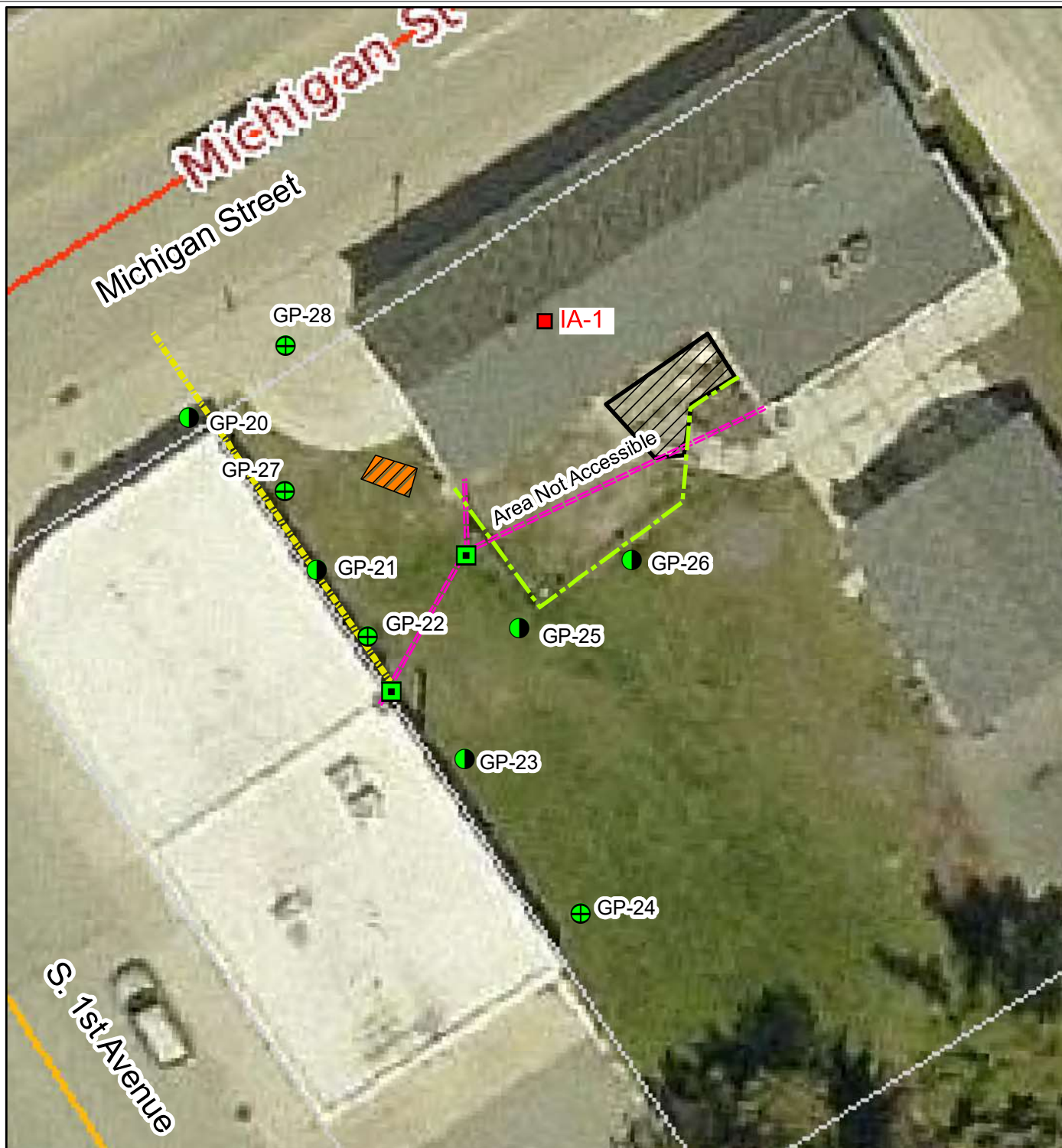
Select which agency:  Natural Resources       Agriculture, Trade and Consumer Protection

### State of Wisconsin Department of Natural Resources

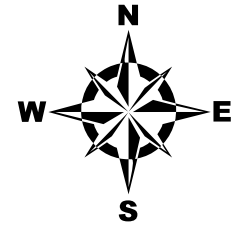
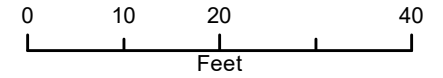
|                             |  |            |           |                          |          |
|-----------------------------|--|------------|-----------|--------------------------|----------|
| Contact Person Last Name    |  | First Name |           | Phone # (inc. area code) |          |
| Campoli                     |  | Karen      |           | (920) 510-4349           |          |
| Address                     |  |            | City      | State                    | ZIP Code |
| 2984 Shawano Avenue         |  |            | Green Bay | WI                       | 54313    |
| Email                       |  |            |           |                          |          |
| Karen.Campoli@Wisconsin.gov |  |            |           |                          |          |



Figure 4 - Soil Boring Map  
Sturgeon Bay Launderers  
and Cleaners (Former)



2019 Data



**Legend** ■ Indoor Air Sample

- Fence Location
- Overhead Wire
- Underground Telephone Line
- ▨ Deck
- ▨ Former Location of Gasoline UST
- ⊕ Geoprobe
- Power Pole
- Temporary Groundwater Well



2918 Van Hoof Road • Green Bay, WI 54313

Phone: 920.615.0019 • Website: [www.evergreenwis.com](http://www.evergreenwis.com)

**Indoor Air Vapor Detection Summary**

**BRRTS No. 02-15-576022**

Sturgeon Bay Launderers and Cleaners  
7 2nd Avenue South, Sturgeon Bay, WI

|                                | Indoor Air VAL (µg/m3) |                 | Indoor Air Samples (µg/m3) |              |
|--------------------------------|------------------------|-----------------|----------------------------|--------------|
|                                | Residential            | Non-residential | IA-1                       | Ambient Air  |
|                                |                        |                 | 11/17/2021                 | 12/7/2016    |
| 1,1,2-Trichlorotrifluoroethane | NS                     | NS              | 0.52 J                     | 0.55 J       |
| 2-Butanone (MEK)               | 5,210                  | 21,900          | 3.1 J                      | 22           |
| 2-Hexanone                     | 31.3                   | 131             | 0.98 J                     | 7.0          |
| 2-Propanol                     | 209                    | 876             | 3.9                        | 8.6          |
| Acetone                        | NS                     | NS              | 25.5                       | 65.9         |
| Benzene                        | 3.6                    | 16              | <b>4.1</b>                 | 0.57         |
| Bromomethane                   | 5.2                    | 22              | 0.74 J                     | ND           |
| Carbon tetrachloride           | 4.7                    | 20              | <0.41                      | 0.52 J       |
| Chloromethane                  | 94                     | 390             | 0.99                       | 1.3          |
| Cyclohexane                    | NS                     | NS              | <0.32                      | 0.74 J       |
| Dichlorodifluoromethane        | 100                    | 440             | 3.4                        | 1.6          |
| Ethanol                        | NS                     | NS              | 56.8                       | 34.2         |
| Ethylbenzene                   | 11                     | 49              | 4.0                        | ND           |
| m&p-Xylene                     | 100                    | 440             | 14.4                       | ND           |
| Naphthalene                    | 0.83                   | 3.6             | <3.2                       | <b>1.9 J</b> |
| n-Heptane                      | 417                    | 1,750           | 8.6                        | 1.9          |
| n-Hexane                       | 730                    | 3,070           | 1.4                        | 3.5          |
| o-Xylene                       | 100                    | 440             | 3.3                        | ND           |
| Tetrachloroethene (PCE)        | 42                     | 180             | 1.3 J                      | 0.70 J       |
| Tetrahydrofuran                | 2,090                  | 8,760           | <0.26                      | 0.49 J       |
| Toluene                        | 5,200                  | 22,000          | 19.9                       | 1.4          |
| Trichlorofluoromethane         | NS                     | NS              | 1.4 J                      | 1.3 J        |
| Vinyl acetate                  | 209                    | 876             | <0.30                      | 6.1          |

Notes: < Value less than laboratory limit of detection. J - Value between laboratory limit of detection and limit of quantitation. Bold values are greater than or equal to residential VALs. Bold underlined values are greater than or equal to non-residential VALs. c - carcinogenic based RSL. n - non-carcinogenic based RSL. VAL - Vapor action level. RSL - Regional screening level. µg/m<sup>3</sup> - micrograms per cubic meter. NS - no standard. NA - not analyzed.

December 06, 2021

William Honea  
Ayres Associates  
N17 W24222 Riverwood Dr.  
Suite 310  
Waukesha, WI 53188

RE: Project: 51-0575.00, TASK2 Sturgeon Bay  
Pace Project No.: 10588586

Dear William Honea:

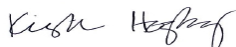
Enclosed are the analytical results for sample(s) received by the laboratory on November 19, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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,



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

Enclosures

cc: Tom Gaieck, Ayres Associates  
Subs, Ayres Associates



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

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

1700 Elm Street SE, Minneapolis, MN 55414

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

A2LA Certification #: 2926.01\*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009\*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014\*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

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

Florida Certification #: E87605\*

Georgia Certification #: 959

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: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

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| Lab ID      | Sample ID | Matrix | Date Collected | Date Received  |
|-------------|-----------|--------|----------------|----------------|
| 10588586001 | IA-1      | Air    | 11/17/21 09:25 | 11/19/21 11:12 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

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| Lab ID      | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|--------|----------|-------------------|------------|
| 10588586001 | IA-1      | TO-15  | AJA      | 61                | PASI-M     |

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PASI-M = Pace Analytical Services - Minneapolis

### REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

| Lab Sample ID<br>Method | Client Sample ID<br>Parameters | Result | Units | Report Limit | Analyzed       | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| <b>10588586001</b>      | <b>IA-1</b>                    |        |       |              |                |            |
| TO-15                   | Acetone                        | 25.5   | ug/m3 | 8.8          | 12/03/21 17:38 |            |
| TO-15                   | Benzene                        | 4.1    | ug/m3 | 0.95         | 12/03/21 17:38 |            |
| TO-15                   | Bromomethane                   | 0.74J  | ug/m3 | 1.2          | 12/03/21 17:38 |            |
| TO-15                   | 2-Butanone (MEK)               | 3.1J   | ug/m3 | 4.4          | 12/03/21 17:38 |            |
| TO-15                   | Chloromethane                  | 0.99   | ug/m3 | 0.61         | 12/03/21 17:38 |            |
| TO-15                   | Dichlorodifluoromethane        | 3.4    | ug/m3 | 1.5          | 12/03/21 17:38 |            |
| TO-15                   | Ethanol                        | 56.8   | ug/m3 | 2.8          | 12/03/21 17:38 |            |
| TO-15                   | Ethylbenzene                   | 4.0    | ug/m3 | 1.3          | 12/03/21 17:38 |            |
| TO-15                   | n-Heptane                      | 8.6    | ug/m3 | 1.2          | 12/03/21 17:38 |            |
| TO-15                   | n-Hexane                       | 1.4    | ug/m3 | 1.0          | 12/03/21 17:38 |            |
| TO-15                   | 2-Hexanone                     | 0.98J  | ug/m3 | 6.1          | 12/03/21 17:38 |            |
| TO-15                   | 2-Propanol                     | 3.9    | ug/m3 | 3.6          | 12/03/21 17:38 |            |
| TO-15                   | Tetrachloroethene              | 1.3J   | ug/m3 | 2.0          | 12/03/21 17:38 |            |
| TO-15                   | Toluene                        | 19.9   | ug/m3 | 1.1          | 12/03/21 17:38 |            |
| TO-15                   | Trichlorofluoromethane         | 1.4J   | ug/m3 | 1.7          | 12/03/21 17:38 |            |
| TO-15                   | 1,1,2-Trichlorotrifluoroethane | 0.52J  | ug/m3 | 2.3          | 12/03/21 17:38 |            |
| TO-15                   | m&p-Xylene                     | 14.4   | ug/m3 | 2.6          | 12/03/21 17:38 |            |
| TO-15                   | o-Xylene                       | 3.3    | ug/m3 | 1.3          | 12/03/21 17:38 |            |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 51-0575.00, TASK2 Sturgeon Bay

Project No.: 10588586

Sample: IA-1 Lab ID: 10588586001 Collected: 11/17/21 09:25 Received: 11/19/21 11:12 Matrix: Air

| Parameters                             | Results | Units | LOQ  | LOD  | DF   | Prepared | Analyzed       | CAS No.    | Qual |
|--|---------|-------|------|------|------|----------|----------------|------------|------|
| <b>TO15 MSV AIR</b>                    |         |       |      |      |      |          |                |            |      |
| Analytical Method: TO-15               |         |       |      |      |      |          |                |            |      |
| Pace Analytical Services - Minneapolis |         |       |      |      |      |          |                |            |      |
| Acetone                                | 25.5    | ug/m3 | 8.8  | 2.6  | 1.46 |          | 12/03/21 17:38 | 67-64-1    |      |
| Benzene                                | 4.1     | ug/m3 | 0.95 | 0.17 | 1.46 |          | 12/03/21 17:38 | 71-43-2    |      |
| Benzyl chloride                        | <1.3    | ug/m3 | 3.8  | 1.3  | 1.46 |          | 12/03/21 17:38 | 100-44-7   |      |
| Bromodichloromethane                   | <0.35   | ug/m3 | 2.0  | 0.35 | 1.46 |          | 12/03/21 17:38 | 75-27-4    |      |
| Bromoform                              | <2.4    | ug/m3 | 7.7  | 2.4  | 1.46 |          | 12/03/21 17:38 | 75-25-2    |      |
| Bromomethane                           | 0.74J   | ug/m3 | 1.2  | 0.22 | 1.46 |          | 12/03/21 17:38 | 74-83-9    |      |
| 1,3-Butadiene                          | <0.18   | ug/m3 | 0.66 | 0.18 | 1.46 |          | 12/03/21 17:38 | 106-99-0   |      |
| 2-Butanone (MEK)                       | 3.1J    | ug/m3 | 4.4  | 0.68 | 1.46 |          | 12/03/21 17:38 | 78-93-3    |      |
| Carbon disulfide                       | <0.19   | ug/m3 | 0.92 | 0.19 | 1.46 |          | 12/03/21 17:38 | 75-15-0    |      |
| Carbon tetrachloride                   | <0.41   | ug/m3 | 1.9  | 0.41 | 1.46 |          | 12/03/21 17:38 | 56-23-5    |      |
| Chlorobenzene                          | <0.23   | ug/m3 | 1.4  | 0.23 | 1.46 |          | 12/03/21 17:38 | 108-90-7   |      |
| Chloroethane                           | <0.33   | ug/m3 | 0.78 | 0.33 | 1.46 |          | 12/03/21 17:38 | 75-00-3    |      |
| Chloroform                             | <0.27   | ug/m3 | 1.4  | 0.27 | 1.46 |          | 12/03/21 17:38 | 67-66-3    |      |
| Chloromethane                          | 0.99    | ug/m3 | 0.61 | 0.12 | 1.46 |          | 12/03/21 17:38 | 74-87-3    |      |
| Cyclohexane                            | <0.32   | ug/m3 | 2.6  | 0.32 | 1.46 |          | 12/03/21 17:38 | 110-82-7   |      |
| Dibromochloromethane                   | <0.75   | ug/m3 | 2.5  | 0.75 | 1.46 |          | 12/03/21 17:38 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                | <0.44   | ug/m3 | 1.1  | 0.44 | 1.46 |          | 12/03/21 17:38 | 106-93-4   |      |
| 1,2-Dichlorobenzene                    | <0.59   | ug/m3 | 4.5  | 0.59 | 1.46 |          | 12/03/21 17:38 | 95-50-1    |      |
| 1,3-Dichlorobenzene                    | <0.74   | ug/m3 | 4.5  | 0.74 | 1.46 |          | 12/03/21 17:38 | 541-73-1   |      |
| 1,4-Dichlorobenzene                    | <1.3    | ug/m3 | 4.5  | 1.3  | 1.46 |          | 12/03/21 17:38 | 106-46-7   |      |
| Dichlorodifluoromethane                | 3.4     | ug/m3 | 1.5  | 0.27 | 1.46 |          | 12/03/21 17:38 | 75-71-8    |      |
| 1,1-Dichloroethane                     | <0.24   | ug/m3 | 1.2  | 0.24 | 1.46 |          | 12/03/21 17:38 | 75-34-3    |      |
| 1,2-Dichloroethane                     | <0.28   | ug/m3 | 1.2  | 0.28 | 1.46 |          | 12/03/21 17:38 | 107-06-2   |      |
| 1,1-Dichloroethene                     | <0.20   | ug/m3 | 1.2  | 0.20 | 1.46 |          | 12/03/21 17:38 | 75-35-4    |      |
| cis-1,2-Dichloroethene                 | <0.28   | ug/m3 | 1.2  | 0.28 | 1.46 |          | 12/03/21 17:38 | 156-59-2   |      |
| trans-1,2-Dichloroethene               | <0.25   | ug/m3 | 1.2  | 0.25 | 1.46 |          | 12/03/21 17:38 | 156-60-5   |      |
| 1,2-Dichloropropane                    | <0.39   | ug/m3 | 1.4  | 0.39 | 1.46 |          | 12/03/21 17:38 | 78-87-5    |      |
| cis-1,3-Dichloropropene                | <0.37   | ug/m3 | 3.4  | 0.37 | 1.46 |          | 12/03/21 17:38 | 10061-01-5 |      |
| trans-1,3-Dichloropropene              | <0.79   | ug/m3 | 3.4  | 0.79 | 1.46 |          | 12/03/21 17:38 | 10061-02-6 |      |
| Dichlorotetrafluoroethane              | <0.29   | ug/m3 | 2.1  | 0.29 | 1.46 |          | 12/03/21 17:38 | 76-14-2    |      |
| Ethanol                                | 56.8    | ug/m3 | 2.8  | 0.86 | 1.46 |          | 12/03/21 17:38 | 64-17-5    |      |
| Ethyl acetate                          | <0.19   | ug/m3 | 1.1  | 0.19 | 1.46 |          | 12/03/21 17:38 | 141-78-6   |      |
| Ethylbenzene                           | 4.0     | ug/m3 | 1.3  | 0.45 | 1.46 |          | 12/03/21 17:38 | 100-41-4   |      |
| 4-Ethyltoluene                         | <0.69   | ug/m3 | 3.6  | 0.69 | 1.46 |          | 12/03/21 17:38 | 622-96-8   |      |
| n-Heptane                              | 8.6     | ug/m3 | 1.2  | 0.26 | 1.46 |          | 12/03/21 17:38 | 142-82-5   |      |
| Hexachloro-1,3-butadiene               | <1.8    | ug/m3 | 7.9  | 1.8  | 1.46 |          | 12/03/21 17:38 | 87-68-3    |      |
| n-Hexane                               | 1.4     | ug/m3 | 1.0  | 0.28 | 1.46 |          | 12/03/21 17:38 | 110-54-3   |      |
| 2-Hexanone                             | 0.98J   | ug/m3 | 6.1  | 0.65 | 1.46 |          | 12/03/21 17:38 | 591-78-6   |      |
| Methylene Chloride                     | <0.87   | ug/m3 | 5.2  | 0.87 | 1.46 |          | 12/03/21 17:38 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK)            | <0.47   | ug/m3 | 6.1  | 0.47 | 1.46 |          | 12/03/21 17:38 | 108-10-1   |      |
| Methyl-tert-butyl ether                | <0.18   | ug/m3 | 5.3  | 0.18 | 1.46 |          | 12/03/21 17:38 | 1634-04-4  |      |
| Naphthalene                            | <3.2    | ug/m3 | 3.9  | 3.2  | 1.46 |          | 12/03/21 17:38 | 91-20-3    |      |
| 2-Propanol                             | 3.9     | ug/m3 | 3.6  | 0.74 | 1.46 |          | 12/03/21 17:38 | 67-63-0    |      |
| Propylene                              | <0.19   | ug/m3 | 1.3  | 0.19 | 1.46 |          | 12/03/21 17:38 | 115-07-1   |      |
| Styrene                                | <0.56   | ug/m3 | 1.3  | 0.56 | 1.46 |          | 12/03/21 17:38 | 100-42-5   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

**Sample:** IA-1      **Lab ID:** 10588586001      Collected: 11/17/21 09:25      Received: 11/19/21 11:12      Matrix: Air

| Parameters                             | Results | Units | LOQ  | LOD  | DF   | Prepared | Analyzed       | CAS No.     | Qual |
|--|---------|-------|------|------|------|----------|----------------|-------------|------|
| <b>TO15 MSV AIR</b>                    |         |       |      |      |      |          |                |             |      |
| Analytical Method: TO-15               |         |       |      |      |      |          |                |             |      |
| Pace Analytical Services - Minneapolis |         |       |      |      |      |          |                |             |      |
| 1,1,2,2-Tetrachloroethane              | <0.54   | ug/m3 | 2.0  | 0.54 | 1.46 |          | 12/03/21 17:38 | 79-34-5     |      |
| Tetrachloroethene                      | 1.3J    | ug/m3 | 2.0  | 0.43 | 1.46 |          | 12/03/21 17:38 | 127-18-4    |      |
| Tetrahydrofuran                        | <0.26   | ug/m3 | 0.88 | 0.26 | 1.46 |          | 12/03/21 17:38 | 109-99-9    |      |
| Toluene                                | 19.9    | ug/m3 | 1.1  | 0.36 | 1.46 |          | 12/03/21 17:38 | 108-88-3    |      |
| 1,2,4-Trichlorobenzene                 | <7.1    | ug/m3 | 11.0 | 7.1  | 1.46 |          | 12/03/21 17:38 | 120-82-1    |      |
| 1,1,1-Trichloroethane                  | <0.27   | ug/m3 | 1.6  | 0.27 | 1.46 |          | 12/03/21 17:38 | 71-55-6     |      |
| 1,1,2-Trichloroethane                  | <0.29   | ug/m3 | 0.81 | 0.29 | 1.46 |          | 12/03/21 17:38 | 79-00-5     |      |
| Trichloroethene                        | <0.29   | ug/m3 | 0.80 | 0.29 | 1.46 |          | 12/03/21 17:38 | 79-01-6     |      |
| Trichlorofluoromethane                 | 1.4J    | ug/m3 | 1.7  | 0.34 | 1.46 |          | 12/03/21 17:38 | 75-69-4     |      |
| 1,1,2-Trichlorotrifluoroethane         | 0.52J   | ug/m3 | 2.3  | 0.42 | 1.46 |          | 12/03/21 17:38 | 76-13-1     |      |
| 1,2,4-Trimethylbenzene                 | <0.52   | ug/m3 | 1.5  | 0.52 | 1.46 |          | 12/03/21 17:38 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                 | <0.42   | ug/m3 | 1.5  | 0.42 | 1.46 |          | 12/03/21 17:38 | 108-67-8    |      |
| Vinyl acetate                          | <0.30   | ug/m3 | 1.0  | 0.30 | 1.46 |          | 12/03/21 17:38 | 108-05-4    |      |
| Vinyl chloride                         | <0.13   | ug/m3 | 0.38 | 0.13 | 1.46 |          | 12/03/21 17:38 | 75-01-4     |      |
| m&p-Xylene                             | 14.4    | ug/m3 | 2.6  | 0.94 | 1.46 |          | 12/03/21 17:38 | 179601-23-1 |      |
| o-Xylene                               | 3.3     | ug/m3 | 1.3  | 0.40 | 1.46 |          | 12/03/21 17:38 | 95-47-6     |      |

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

QC Batch: 787223

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10588586001

METHOD BLANK: 4190598

Matrix: Air

Associated Lab Samples: 10588586001

| Parameter                      | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane          | ug/m3 | <0.19        | 1.1             | 12/03/21 09:36 |            |
| 1,1,2,2-Tetrachloroethane      | ug/m3 | <0.37        | 1.4             | 12/03/21 09:36 |            |
| 1,1,2-Trichloroethane          | ug/m3 | <0.20        | 0.56            | 12/03/21 09:36 |            |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | <0.29        | 1.6             | 12/03/21 09:36 |            |
| 1,1-Dichloroethane             | ug/m3 | <0.16        | 0.82            | 12/03/21 09:36 |            |
| 1,1-Dichloroethene             | ug/m3 | <0.14        | 0.81            | 12/03/21 09:36 |            |
| 1,2,4-Trichlorobenzene         | ug/m3 | <4.9         | 7.5             | 12/03/21 09:36 |            |
| 1,2,4-Trimethylbenzene         | ug/m3 | <0.35        | 1.0             | 12/03/21 09:36 |            |
| 1,2-Dibromoethane (EDB)        | ug/m3 | <0.30        | 0.78            | 12/03/21 09:36 |            |
| 1,2-Dichlorobenzene            | ug/m3 | <0.40        | 3.1             | 12/03/21 09:36 |            |
| 1,2-Dichloroethane             | ug/m3 | <0.19        | 0.82            | 12/03/21 09:36 |            |
| 1,2-Dichloropropane            | ug/m3 | <0.27        | 0.94            | 12/03/21 09:36 |            |
| 1,3,5-Trimethylbenzene         | ug/m3 | <0.29        | 1.0             | 12/03/21 09:36 |            |
| 1,3-Butadiene                  | ug/m3 | <0.12        | 0.45            | 12/03/21 09:36 |            |
| 1,3-Dichlorobenzene            | ug/m3 | <0.51        | 3.1             | 12/03/21 09:36 |            |
| 1,4-Dichlorobenzene            | ug/m3 | <0.88        | 3.1             | 12/03/21 09:36 |            |
| 2-Butanone (MEK)               | ug/m3 | <0.46        | 3.0             | 12/03/21 09:36 |            |
| 2-Hexanone                     | ug/m3 | <0.44        | 4.2             | 12/03/21 09:36 |            |
| 2-Propanol                     | ug/m3 | <0.51        | 2.5             | 12/03/21 09:36 |            |
| 4-Ethyltoluene                 | ug/m3 | <0.47        | 2.5             | 12/03/21 09:36 |            |
| 4-Methyl-2-pentanone (MIBK)    | ug/m3 | <0.32        | 4.2             | 12/03/21 09:36 |            |
| Acetone                        | ug/m3 | <1.8         | 6.0             | 12/03/21 09:36 |            |
| Benzene                        | ug/m3 | <0.11        | 0.65            | 12/03/21 09:36 | MN         |
| Benzyl chloride                | ug/m3 | <0.89        | 2.6             | 12/03/21 09:36 |            |
| Bromodichloromethane           | ug/m3 | <0.24        | 1.4             | 12/03/21 09:36 |            |
| Bromoform                      | ug/m3 | <1.6         | 5.2             | 12/03/21 09:36 |            |
| Bromomethane                   | ug/m3 | <0.15        | 0.79            | 12/03/21 09:36 |            |
| Carbon disulfide               | ug/m3 | <0.13        | 0.63            | 12/03/21 09:36 |            |
| Carbon tetrachloride           | ug/m3 | <0.28        | 1.3             | 12/03/21 09:36 |            |
| Chlorobenzene                  | ug/m3 | <0.16        | 0.94            | 12/03/21 09:36 |            |
| Chloroethane                   | ug/m3 | <0.22        | 0.54            | 12/03/21 09:36 |            |
| Chloroform                     | ug/m3 | <0.18        | 0.99            | 12/03/21 09:36 | MN         |
| Chloromethane                  | ug/m3 | <0.085       | 0.42            | 12/03/21 09:36 |            |
| cis-1,2-Dichloroethene         | ug/m3 | <0.20        | 0.81            | 12/03/21 09:36 |            |
| cis-1,3-Dichloropropene        | ug/m3 | <0.26        | 2.3             | 12/03/21 09:36 |            |
| Cyclohexane                    | ug/m3 | <0.22        | 1.8             | 12/03/21 09:36 |            |
| Dibromochloromethane           | ug/m3 | <0.52        | 1.7             | 12/03/21 09:36 |            |
| Dichlorodifluoromethane        | ug/m3 | <0.19        | 1.0             | 12/03/21 09:36 |            |
| Dichlorotetrafluoroethane      | ug/m3 | <0.20        | 1.4             | 12/03/21 09:36 |            |
| Ethanol                        | ug/m3 | <0.59        | 1.9             | 12/03/21 09:36 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

METHOD BLANK: 4190598

Matrix: Air

Associated Lab Samples: 10588586001

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Ethyl acetate             | ug/m3 | <0.13        | 0.73            | 12/03/21 09:36 |            |
| Ethylbenzene              | ug/m3 | <0.31        | 0.88            | 12/03/21 09:36 |            |
| Hexachloro-1,3-butadiene  | ug/m3 | <1.2         | 5.4             | 12/03/21 09:36 |            |
| m&p-Xylene                | ug/m3 | <0.64        | 1.8             | 12/03/21 09:36 |            |
| Methyl-tert-butyl ether   | ug/m3 | <0.13        | 3.7             | 12/03/21 09:36 |            |
| Methylene Chloride        | ug/m3 | <0.59        | 3.5             | 12/03/21 09:36 |            |
| n-Heptane                 | ug/m3 | <0.18        | 0.83            | 12/03/21 09:36 |            |
| n-Hexane                  | ug/m3 | <0.19        | 0.72            | 12/03/21 09:36 |            |
| Naphthalene               | ug/m3 | <2.2         | 2.7             | 12/03/21 09:36 |            |
| o-Xylene                  | ug/m3 | <0.27        | 0.88            | 12/03/21 09:36 |            |
| Propylene                 | ug/m3 | <0.13        | 0.88            | 12/03/21 09:36 |            |
| Styrene                   | ug/m3 | <0.38        | 0.87            | 12/03/21 09:36 |            |
| Tetrachloroethene         | ug/m3 | <0.29        | 1.4             | 12/03/21 09:36 | MN         |
| Tetrahydrofuran           | ug/m3 | <0.18        | 0.60            | 12/03/21 09:36 |            |
| Toluene                   | ug/m3 | <0.24        | 0.77            | 12/03/21 09:36 |            |
| trans-1,2-Dichloroethene  | ug/m3 | <0.17        | 0.81            | 12/03/21 09:36 |            |
| trans-1,3-Dichloropropene | ug/m3 | <0.54        | 2.3             | 12/03/21 09:36 |            |
| Trichloroethene           | ug/m3 | <0.20        | 0.55            | 12/03/21 09:36 |            |
| Trichlorofluoromethane    | ug/m3 | <0.23        | 1.1             | 12/03/21 09:36 |            |
| Vinyl acetate             | ug/m3 | <0.21        | 0.72            | 12/03/21 09:36 |            |
| Vinyl chloride            | ug/m3 | <0.087       | 0.26            | 12/03/21 09:36 |            |

LABORATORY CONTROL SAMPLE: 4190599

| Parameter                      | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane          | ug/m3 | 59.3        | 59.3       | 100       | 70-130       |            |
| 1,1,2,2-Tetrachloroethane      | ug/m3 | 75.4        | 83.3       | 110       | 70-132       |            |
| 1,1,2-Trichloroethane          | ug/m3 | 59.6        | 64.7       | 109       | 70-134       |            |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | 83.6        | 82.3       | 98        | 70-130       |            |
| 1,1-Dichloroethane             | ug/m3 | 43.9        | 44.8       | 102       | 70-133       |            |
| 1,1-Dichloroethene             | ug/m3 | 43.5        | 43.6       | 100       | 70-130       |            |
| 1,2,4-Trichlorobenzene         | ug/m3 | 177         | 207        | 117       | 69-132       |            |
| 1,2,4-Trimethylbenzene         | ug/m3 | 54          | 63.6       | 118       | 70-142       |            |
| 1,2-Dibromoethane (EDB)        | ug/m3 | 82.5        | 95.6       | 116       | 70-138       |            |
| 1,2-Dichlorobenzene            | ug/m3 | 66.2        | 76.6       | 116       | 70-146       |            |
| 1,2-Dichloroethane             | ug/m3 | 44.4        | 48.7       | 110       | 70-132       |            |
| 1,2-Dichloropropane            | ug/m3 | 50.6        | 54.4       | 108       | 70-134       |            |
| 1,3,5-Trimethylbenzene         | ug/m3 | 53.7        | 63.1       | 118       | 70-143       |            |
| 1,3-Butadiene                  | ug/m3 | 24.2        | 27.7       | 115       | 70-136       |            |
| 1,3-Dichlorobenzene            | ug/m3 | 66.3        | 76.9       | 116       | 70-145       |            |
| 1,4-Dichlorobenzene            | ug/m3 | 66.3        | 76.2       | 115       | 70-140       |            |
| 2-Butanone (MEK)               | ug/m3 | 32.3        | 36.8       | 114       | 50-139       |            |
| 2-Hexanone                     | ug/m3 | 44.8        | 49.5       | 111       | 70-148       |            |
| 2-Propanol                     | ug/m3 | 149         | 159        | 107       | 67-135       |            |

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### QUALITY CONTROL DATA

Project: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

LABORATORY CONTROL SAMPLE: 4190599

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Ethyltoluene              | ug/m3 | 53.7        | 63.0       | 117       | 70-145       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | 44.9        | 47.6       | 106       | 70-139       |            |
| Acetone                     | ug/m3 | 128         | 125        | 98        | 64-130       |            |
| Benzene                     | ug/m3 | 34.8        | 36.4       | 105       | 70-131       |            |
| Benzyl chloride             | ug/m3 | 57.6        | 64.9       | 113       | 70-130       |            |
| Bromodichloromethane        | ug/m3 | 73.1        | 76.4       | 104       | 70-133       |            |
| Bromoform                   | ug/m3 | 114         | 128        | 113       | 70-137       |            |
| Bromomethane                | ug/m3 | 42.5        | 46.9       | 110       | 64-134       |            |
| Carbon disulfide            | ug/m3 | 34.4        | 35.4       | 103       | 70-131       |            |
| Carbon tetrachloride        | ug/m3 | 69.4        | 70.1       | 101       | 70-131       |            |
| Chlorobenzene               | ug/m3 | 50.2        | 53.9       | 108       | 70-130       |            |
| Chloroethane                | ug/m3 | 28.8        | 33.8       | 117       | 69-141       |            |
| Chloroform                  | ug/m3 | 52.4        | 52.7       | 101       | 70-130       |            |
| Chloromethane               | ug/m3 | 22.6        | 23.3       | 103       | 70-130       |            |
| cis-1,2-Dichloroethene      | ug/m3 | 43.4        | 49.9       | 115       | 70-137       |            |
| cis-1,3-Dichloropropene     | ug/m3 | 49.4        | 57.3       | 116       | 70-144       |            |
| Cyclohexane                 | ug/m3 | 37.4        | 39.6       | 106       | 70-137       |            |
| Dibromochloromethane        | ug/m3 | 93.2        | 104        | 112       | 70-132       |            |
| Dichlorodifluoromethane     | ug/m3 | 54.6        | 56.8       | 104       | 70-130       |            |
| Dichlorotetrafluoroethane   | ug/m3 | 71.2        | 74.7       | 105       | 70-130       |            |
| Ethanol                     | ug/m3 | 124         | 144        | 116       | 63-133       |            |
| Ethyl acetate               | ug/m3 | 38.9        | 39.6       | 102       | 70-136       |            |
| Ethylbenzene                | ug/m3 | 47.8        | 53.5       | 112       | 70-142       |            |
| Hexachloro-1,3-butadiene    | ug/m3 | 133         | 161        | 121       | 70-135       |            |
| m&p-Xylene                  | ug/m3 | 95.4        | 109        | 114       | 70-141       |            |
| Methyl-tert-butyl ether     | ug/m3 | 39.6        | 41.9       | 106       | 70-143       |            |
| Methylene Chloride          | ug/m3 | 190         | 184        | 97        | 70-130       |            |
| n-Heptane                   | ug/m3 | 44.6        | 45.3       | 102       | 70-137       |            |
| n-Hexane                    | ug/m3 | 38          | 38.4       | 101       | 70-135       |            |
| Naphthalene                 | ug/m3 | 65.2        | 75.1       | 115       | 67-132       |            |
| o-Xylene                    | ug/m3 | 47.6        | 53.0       | 111       | 70-141       |            |
| Propylene                   | ug/m3 | 18.9        | 18.3       | 97        | 70-130       |            |
| Styrene                     | ug/m3 | 47          | 58.7       | 125       | 70-142       |            |
| Tetrachloroethene           | ug/m3 | 73.4        | 76.2       | 104       | 70-130       |            |
| Tetrahydrofuran             | ug/m3 | 32.1        | 34.9       | 109       | 70-136       |            |
| Toluene                     | ug/m3 | 41.6        | 46.7       | 112       | 70-138       |            |
| trans-1,2-Dichloroethene    | ug/m3 | 43.6        | 51.8       | 119       | 70-130       |            |
| trans-1,3-Dichloropropene   | ug/m3 | 50.5        | 57.2       | 113       | 70-145       |            |
| Trichloroethene             | ug/m3 | 58.4        | 65.3       | 112       | 70-130       |            |
| Trichlorofluoromethane      | ug/m3 | 62          | 61.1       | 98        | 69-135       |            |
| Vinyl acetate               | ug/m3 | 46.4        | 49.9       | 108       | 70-146       |            |
| Vinyl chloride              | ug/m3 | 28          | 31.1       | 111       | 70-137       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

SAMPLE DUPLICATE: 4191184

| Parameter                      | Units | 10588586001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|--------------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1-Trichloroethane          | ug/m3 | <0.27                 | <0.27         |     |            | 25         |
| 1,1,2,2-Tetrachloroethane      | ug/m3 | <0.54                 | <0.54         |     |            | 25         |
| 1,1,2-Trichloroethane          | ug/m3 | <0.29                 | <0.29         |     |            | 25         |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | 0.52J                 | 0.59J         |     |            | 25         |
| 1,1-Dichloroethane             | ug/m3 | <0.24                 | <0.24         |     |            | 25         |
| 1,1-Dichloroethene             | ug/m3 | <0.20                 | <0.20         |     |            | 25         |
| 1,2,4-Trichlorobenzene         | ug/m3 | <7.1                  | <7.1          |     |            | 25         |
| 1,2,4-Trimethylbenzene         | ug/m3 | <0.52                 | <0.52         |     |            | 25         |
| 1,2-Dibromoethane (EDB)        | ug/m3 | <0.44                 | <0.44         |     |            | 25         |
| 1,2-Dichlorobenzene            | ug/m3 | <0.59                 | <0.59         |     |            | 25         |
| 1,2-Dichloroethane             | ug/m3 | <0.28                 | <0.28         |     |            | 25         |
| 1,2-Dichloropropane            | ug/m3 | <0.39                 | <0.39         |     |            | 25         |
| 1,3,5-Trimethylbenzene         | ug/m3 | <0.42                 | <0.42         |     |            | 25         |
| 1,3-Butadiene                  | ug/m3 | <0.18                 | <0.18         |     |            | 25         |
| 1,3-Dichlorobenzene            | ug/m3 | <0.74                 | <0.74         |     |            | 25         |
| 1,4-Dichlorobenzene            | ug/m3 | <1.3                  | <1.3          |     |            | 25         |
| 2-Butanone (MEK)               | ug/m3 | 3.1J                  | 3.8J          |     |            | 25         |
| 2-Hexanone                     | ug/m3 | 0.98J                 | 0.91J         |     |            | 25         |
| 2-Propanol                     | ug/m3 | 3.9                   | 4.2           | 9   |            | 25         |
| 4-Ethyltoluene                 | ug/m3 | <0.69                 | <0.69         |     |            | 25         |
| 4-Methyl-2-pentanone (MIBK)    | ug/m3 | <0.47                 | 0.49J         |     |            | 25         |
| Acetone                        | ug/m3 | 25.5                  | 26.1          | 2   |            | 25         |
| Benzene                        | ug/m3 | 4.1                   | 4.4           | 7   |            | 25         |
| Benzyl chloride                | ug/m3 | <1.3                  | <1.3          |     |            | 25         |
| Bromodichloromethane           | ug/m3 | <0.35                 | <0.35         |     |            | 25         |
| Bromoform                      | ug/m3 | <2.4                  | <2.4          |     |            | 25         |
| Bromomethane                   | ug/m3 | 0.74J                 | 0.79J         |     |            | 25         |
| Carbon disulfide               | ug/m3 | <0.19                 | <0.19         |     |            | 25         |
| Carbon tetrachloride           | ug/m3 | <0.41                 | <0.41         |     |            | 25         |
| Chlorobenzene                  | ug/m3 | <0.23                 | <0.23         |     |            | 25         |
| Chloroethane                   | ug/m3 | <0.33                 | <0.33         |     |            | 25         |
| Chloroform                     | ug/m3 | <0.27                 | <0.27         |     |            | 25         |
| Chloromethane                  | ug/m3 | 0.99                  | 0.97          | 3   |            | 25         |
| cis-1,2-Dichloroethene         | ug/m3 | <0.28                 | <0.28         |     |            | 25         |
| cis-1,3-Dichloropropene        | ug/m3 | <0.37                 | <0.37         |     |            | 25         |
| Cyclohexane                    | ug/m3 | <0.32                 | <0.32         |     |            | 25         |
| Dibromochloromethane           | ug/m3 | <0.75                 | <0.75         |     |            | 25         |
| Dichlorodifluoromethane        | ug/m3 | 3.4                   | 3.5           | 4   |            | 25         |
| Dichlorotetrafluoroethane      | ug/m3 | <0.29                 | <0.29         |     |            | 25         |
| Ethanol                        | ug/m3 | 56.8                  | 58.6          | 3   |            | 25         |
| Ethyl acetate                  | ug/m3 | <0.19                 | <0.19         |     |            | 25         |
| Ethylbenzene                   | ug/m3 | 4.0                   | 4.2           | 5   |            | 25         |
| Hexachloro-1,3-butadiene       | ug/m3 | <1.8                  | <1.8          |     |            | 25         |
| m&p-Xylene                     | ug/m3 | 14.4                  | 15.2          | 5   |            | 25         |
| Methyl-tert-butyl ether        | ug/m3 | <0.18                 | <0.18         |     |            | 25         |
| Methylene Chloride             | ug/m3 | <0.87                 | <0.87         |     |            | 25         |
| n-Heptane                      | ug/m3 | 8.6                   | 9.1           | 5   |            | 25         |

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### QUALITY CONTROL DATA

Project: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

SAMPLE DUPLICATE: 4191184

| Parameter                 | Units | 10588586001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| n-Hexane                  | ug/m3 | 1.4                   | 1.6           | 13  | 25         |            |
| Naphthalene               | ug/m3 | <3.2                  | <3.2          |     | 25         |            |
| o-Xylene                  | ug/m3 | 3.3                   | 3.6           | 8   | 25         |            |
| Propylene                 | ug/m3 | <0.19                 | <0.19         |     | 25         |            |
| Styrene                   | ug/m3 | <0.56                 | <0.56         |     | 25         |            |
| Tetrachloroethene         | ug/m3 | 1.3J                  | 1.3J          |     | 25         |            |
| Tetrahydrofuran           | ug/m3 | <0.26                 | <0.26         |     | 25         |            |
| Toluene                   | ug/m3 | 19.9                  | 20.9          | 5   | 25         |            |
| trans-1,2-Dichloroethene  | ug/m3 | <0.25                 | <0.25         |     | 25         |            |
| trans-1,3-Dichloropropene | ug/m3 | <0.79                 | <0.79         |     | 25         |            |
| Trichloroethene           | ug/m3 | <0.29                 | <0.29         |     | 25         |            |
| Trichlorofluoromethane    | ug/m3 | 1.4J                  | 1.4J          |     | 25         |            |
| Vinyl acetate             | ug/m3 | <0.30                 | <0.30         |     | 25         |            |
| Vinyl chloride            | ug/m3 | <0.13                 | <0.13         |     | 25         |            |

SAMPLE DUPLICATE: 4191185

| Parameter                      | Units | 10588716003<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|--------------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1-Trichloroethane          | ug/m3 | ND                    | <18.7         |     | 25         |            |
| 1,1,2,2-Tetrachloroethane      | ug/m3 | ND                    | <37.5         |     | 25         |            |
| 1,1,2-Trichloroethane          | ug/m3 | ND                    | <19.9         |     | 25         |            |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | ND                    | 157J          |     | 25         |            |
| 1,1-Dichloroethane             | ug/m3 | ND                    | <16.6         |     | 25         |            |
| 1,1-Dichloroethene             | ug/m3 | 93.6                  | 91.9          | 2   | 25         |            |
| 1,2,4-Trichlorobenzene         | ug/m3 | ND                    | <492          |     | 25         |            |
| 1,2,4-Trimethylbenzene         | ug/m3 | ND                    | <35.7         |     | 25         |            |
| 1,2-Dibromoethane (EDB)        | ug/m3 | ND                    | <30.2         |     | 25         |            |
| 1,2-Dichlorobenzene            | ug/m3 | ND                    | <40.8         |     | 25         |            |
| 1,2-Dichloroethane             | ug/m3 | ND                    | <19.6         |     | 25         |            |
| 1,2-Dichloropropane            | ug/m3 | ND                    | <27.1         |     | 25         |            |
| 1,3,5-Trimethylbenzene         | ug/m3 | ND                    | <29.2         |     | 25         |            |
| 1,3-Butadiene                  | ug/m3 | ND                    | <12.1         |     | 25         |            |
| 1,3-Dichlorobenzene            | ug/m3 | ND                    | <51.3         |     | 25         |            |
| 1,4-Dichlorobenzene            | ug/m3 | ND                    | <88.4         |     | 25         |            |
| 2-Butanone (MEK)               | ug/m3 | ND                    | <46.9         |     | 25         |            |
| 2-Hexanone                     | ug/m3 | ND                    | <44.6         |     | 25         |            |
| 2-Propanol                     | ug/m3 | ND                    | <51.3         |     | 25         |            |
| 4-Ethyltoluene                 | ug/m3 | ND                    | <47.6         |     | 25         |            |
| 4-Methyl-2-pentanone (MIBK)    | ug/m3 | ND                    | <32.4         |     | 25         |            |
| Acetone                        | ug/m3 | ND                    | <182          |     | 25         |            |
| Benzene                        | ug/m3 | ND                    | 11.7J         |     | 25         |            |
| Benzyl chloride                | ug/m3 | ND                    | <89.7         |     | 25         |            |
| Bromodichloromethane           | ug/m3 | ND                    | <23.9         |     | 25         |            |
| Bromoform                      | ug/m3 | ND                    | <163          |     | 25         |            |
| Bromomethane                   | ug/m3 | ND                    | <15.1         |     | 25         |            |

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### QUALITY CONTROL DATA

Project: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

SAMPLE DUPLICATE: 4191185

| Parameter                 | Units | 10588716003<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| Carbon disulfide          | ug/m3 | ND                    | <13.0         |     | 25         |            |
| Carbon tetrachloride      | ug/m3 | ND                    | <28.2         |     | 25         |            |
| Chlorobenzene             | ug/m3 | ND                    | 18.7J         |     | 25         |            |
| Chloroethane              | ug/m3 | ND                    | <22.6         |     | 25         |            |
| Chloroform                | ug/m3 | ND                    | 36.9J         |     | 25         |            |
| Chloromethane             | ug/m3 | ND                    | <8.6          |     | 25         |            |
| cis-1,2-Dichloroethene    | ug/m3 | 29800                 | 27400         | 8   | 25         |            |
| cis-1,3-Dichloropropene   | ug/m3 | ND                    | <25.7         |     | 25         |            |
| Cyclohexane               | ug/m3 | ND                    | 88.7J         |     | 25         |            |
| Dibromochloromethane      | ug/m3 | ND                    | <51.9         |     | 25         |            |
| Dichlorodifluoromethane   | ug/m3 | ND                    | <19.0         |     | 25         |            |
| Dichlorotetrafluoroethane | ug/m3 | ND                    | <20.4         |     | 25         |            |
| Ethanol                   | ug/m3 | ND                    | 68.8J         |     | 25         |            |
| Ethyl acetate             | ug/m3 | ND                    | <13.2         |     | 25         |            |
| Ethylbenzene              | ug/m3 | ND                    | <31.1         |     | 25         |            |
| Hexachloro-1,3-butadiene  | ug/m3 | ND                    | <124          |     | 25         |            |
| m&p-Xylene                | ug/m3 | ND                    | <64.7         |     | 25         |            |
| Methyl-tert-butyl ether   | ug/m3 | ND                    | <12.7         |     | 25         |            |
| Methylene Chloride        | ug/m3 | ND                    | <59.8         |     | 25         |            |
| n-Heptane                 | ug/m3 | ND                    | <18.2         |     | 25         |            |
| n-Hexane                  | ug/m3 | ND                    | 64.5J         |     | 25         |            |
| Naphthalene               | ug/m3 | ND                    | <219          |     | 25         |            |
| o-Xylene                  | ug/m3 | ND                    | <27.3         |     | 25         |            |
| Propylene                 | ug/m3 | ND                    | <13.1         |     | 25         |            |
| Styrene                   | ug/m3 | ND                    | <38.8         |     | 25         |            |
| Tetrachloroethene         | ug/m3 | 1880000               | 1720000       | 9   | 25         | E          |
| Tetrahydrofuran           | ug/m3 | ND                    | <18.1         |     | 25         |            |
| Toluene                   | ug/m3 | ND                    | 37.0J         |     | 25         |            |
| trans-1,2-Dichloroethene  | ug/m3 | 781                   | 842           | 8   | 25         |            |
| trans-1,3-Dichloropropene | ug/m3 | ND                    | <54.8         |     | 25         |            |
| Trichloroethene           | ug/m3 | 76400                 | 71800         | 6   | 25         |            |
| Trichlorofluoromethane    | ug/m3 | ND                    | <23.5         |     | 25         |            |
| Vinyl acetate             | ug/m3 | ND                    | <21.0         |     | 25         |            |
| Vinyl chloride            | ug/m3 | 78.2                  | 76.2          | 3   | 25         |            |

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## QUALIFIERS

Project: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 51-0575.00, TASK2 Sturgeon Bay

Pace Project No.: 10588586

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| <b>Lab ID</b> | <b>Sample ID</b> | <b>QC Batch Method</b> | <b>QC Batch</b> | <b>Analytical Method</b> | <b>Analytical Batch</b> |
|---------------|------------------|------------------------|-----------------|--------------------------|-------------------------|
| 10588586001   | IA-1             | TO-15                  | 787223          |                          |                         |

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# AIR: CHAIN-OF-CUSTODY

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

WO#: 10588586



50191 Page: 1 of 1

|  |   |  |  |
|--|---|--|--|
| <b>Section A</b><br>Required Client Information:<br>Company: <i>Ayres</i><br>Address: <i>3376 Packerland Dr. Ashwaubergen WI 54115</i><br>Email To: <i>horneaw@Ayresassociates.com</i><br>Phone: <i>920-322-7815</i> Fax:<br>Requested Due Date/TAT: <i>Standard</i> | <b>Section B</b><br>Required Project Information:<br>Report To: <i>Bill Hornea</i><br>Copy To: <i>Tom Gaieck</i><br>Purchase Order No.:<br>Project Name: <i>Sturgeon Bay Vapor</i><br>Project Number: <i>SI-057500, TASK2</i> | <b>Section C</b><br>Invoice Information:<br>Attention: <i>AP</i><br>Company Name: <i>Ayres</i><br>Address: <i>Subs@AyresAssociates.com</i><br>Pace Quote Reference:<br>Pace Project Manager/Sales Rep.<br>Pace Profile #: <i>32439</i> | Program<br><input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act<br><input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other<br>Location of Sampling by State: <i>WI</i><br>Reporting Units:<br>ug/m <sup>3</sup> <input checked="" type="checkbox"/> mg/m <sup>3</sup> <input type="checkbox"/><br>PPBV <input type="checkbox"/> PPMV <input type="checkbox"/><br>Other <input type="checkbox"/><br>Report Level: II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> Other <input type="checkbox"/> |
|--|---|--|--|

| ITEM # | 'Section D Required Client Information<br>AIR SAMPLE ID<br>Sample IDs MUST BE UNIQUE | Valid Media Codes<br>MEDIA CODE | COMPOSITE START | COLLECTED            |          | Canister Pressure<br>(Initial Field - in Hg) | Canister Pressure<br>(Final Field - in Hg) | Summa<br>Can<br>Number | Flow<br>Control<br>Number | Method: | Pace Lab ID  |       |
|--------|--|---------------------------------|-----------------|----------------------|----------|--|--|------------------------|---------------------------|---------|--|-------|
|        |  |                                 |                 | COMPOSITE - END/GRAB |          |  |  |                        |                           |         |  |       |
|        |  |                                 |                 | DATE                 | TIME     |  |  |                        |                           |         |  | DATE  |
| 1      | IA-1   | 6LC                             | 11/16/21        | 9:30                 | 11/17/21 | 9:25   | 28   | 5                      | 0622                      | 0024    | PM10<br>3C - Fixed Gas (%)<br>TO-2 BTEX<br>TO-3M (Methane)<br>TO-14<br>TO-15 Full List VOCs<br>TO-15 Short List BTEX<br>TO-15 Short List Chlorinated | X 001 |
| 2      |  |                                 |                 |                      |          |  |  |                        |                           |         |  |       |
| 3      |  |                                 |                 |                      |          |  |  |                        |                           |         |  |       |
| 4      |  |                                 |                 |                      |          |  |  |                        |                           |         |  |       |
| 5      |  |                                 |                 |                      |          |  |  |                        |                           |         |  |       |
| 6      |  |                                 |                 |                      |          |  |  |                        |                           |         |  |       |
| 7      |  |                                 |                 |                      |          |  |  |                        |                           |         |  |       |
| 8      |  |                                 |                 |                      |          |  |  |                        |                           |         |  |       |
| 9      |  |                                 |                 |                      |          |  |  |                        |                           |         |  |       |
| 10     |  |                                 |                 |                      |          |  |  |                        |                           |         |  |       |
| 11     |  |                                 |                 |                      |          |  |  |                        |                           |         |  |       |
| 12     |  |                                 |                 |                      |          |  |  |                        |                           |         |  |       |

| Comments : | RELINQUISHED BY / AFFILIATION | DATE         | TIME         | ACCEPTED BY / AFFILIATION | DATE            | TIME         | SAMPLE CONDITIONS |     |     |     |     |
|------------|-------------------------------|--------------|--------------|---------------------------|-----------------|--------------|-------------------|-----|-----|-----|-----|
|            | <i>William Hornea / Ayres</i> | <i>11/17</i> | <i>13:00</i> | <i>Wally Pace</i>         | <i>11/19/21</i> | <i>11:12</i> | -                 | Y/N | Y/N | Y/N | Y/N |
|            |                               |              |              |                           |                 |              |                   | Y/N | Y/N | Y/N | Y/N |
|            |                               |              |              |                           |                 |              |                   | Y/N | Y/N | Y/N | Y/N |
|            |                               |              |              |                           |                 |              |                   | Y/N | Y/N | Y/N | Y/N |

|                            |                       |                        |                 |                       |                |
|----------------------------|-----------------------|------------------------|-----------------|-----------------------|----------------|
| SAMPLER NAME AND SIGNATURE |                       | Temp in °C             | Received on Ice | Custody Sealed Cooler | Samples Intact |
| PRINT Name of SAMPLER:     | <i>William Hornea</i> |                        |                 |                       |                |
| SIGNATURE of SAMPLER:      | <i>William Hornea</i> | DATE Signed (MM/DD/YY) | <i>11/17/21</i> |                       |                |

ORIGINAL

