We Energies
231 W. Michigan Street
Milwaukee, WI 53203

www.we-energies.com

May 2, 2022

Wisconsin Department of Natural Resources
Bureau of Air Management
P.O. Box 7921
Madison, WI 53707-7921

Subject: **CONSTRUCTION PERMIT EXEMPTION - NR 406.04(1)(m)**
Metro North Service Center
3100 West North Avenue, Milwaukee, Wisconsin
WDNR BRRTS # 02-41-583015
WDNR FID # 241311510

Dear Bureau of Air Management,

Please find attached a request for an exemption from an air pollution construction permit pursuant to NR 406.04(1)(m) for a vapor mitigation system (VMS) at the Metro North Service Center (MNSC) site located at 3100 West North Avenue, Milwaukee, Wisconsin. This request includes Wisconsin Department of Natural Resources (WDNR) Form 4530-100 and additional information supporting the exemption request.

A $500 check for the exemption fee is also attached.

Please feel free to contact me at your convenience at (414) 587-4467 (cell) or via email at frank.dombrowski@wecenergygroup.com if you have any questions.

Sincerely,

Frank Dombrowski
Principal Environmental Consultant
WEC Energy Group – Business Services

Attachments

Cc: Project File
David Jaeckels, WEC Energy Group - Business Services
Jeremiah Johnson, Geosyntec Consultants
DNRAMAirPermit@wisconsin.gov
WDNR RR Submittal Portal

State of Wisconsin
Department of Natural Resources
dnr.wisconsin.gov

Facility Details and Permit Actions
Air Pollution Control Permit Application

Form 4530-100 (R 06/21)

Notice: Completion of this form is required by the department for any air pollution control permit application filed pursuant to ss. 285.61, 285.62 or 285.66, Wis. Stats. The department will not consider or act upon an application unless this form is submitted and complete. Any personal information collected will be used for administrative purposes only and may be provided to requesters to the extent required by Wisconsin's Public Records Law [ss. 19.31-19.39, Wis. Stats.].

Facility Information

1. Facility Name	2. SIC and NAICS	3. Facility ID Number (FID)
Metro North Service Center	4911, 221112	241311510

4. Street Address (where pollution sources are/will be located)	5. ◉ City ○ Town ○ Village	6. County
3100 West North Avenue	of Milwaukee	Milwaukee

7. Primary Operating Activity (e.g., lead-acid battery manufacturer or sulfite paper mill)
vapor mitigation (venting) system

8. Is the facility located in an area designated as "nonattainment"? (refer to instructions) ◉ Yes ○ No	9. If yes, indicate the pollutant(s) for the nonattainment designation
	8-Hour Ozone (2015)

Applicant Information

10. Responsible Official Name (person legally responsible for the operation of the permitted air pollution sources [see NR 400.02(136), Wis. Adm. Code])
Frank Dombrowski, Wisconsin Electric Power Company (d.b.a, We Energies)

11. Title	12. Email	12A. Phone Number	
Principal Environmental Consultant		(414) 221-2156	
13. Mailing Address	**City**	**State**	**ZIP Code**
333 Everett Street	Milwaukee	WI	53208

14. Parent Corporation or Owner Name (if not wholly owned by applicant)
Wisconsin Electric Power Company (d.b.a, We Energies)

15. Mailing Address	City	State	ZIP Code	Country (if not U.S.)
333 Everett Street	Milwaukee	WI	53208	

16. Permit Contact Person – to be contacted for additional information concerning air pollution sources	17. Email
Frank Dombrowski	
18. Title	**19. Phone Number**
Principal Environmental Consultant	(414) 221-2156

Permit Information

20. Construction Permit Actions:

Instructions: If applying for a construction permit action (including modification, reconstruction, relocation, replacement, and revision), you MUST also apply for an operation permit option. A check for the construction permit application fees MUST be submitted with the application forms before the department will begin their review. Application fees are listed below in section A. Additional fees may be required and a final invoice will be sent when a final permit decision is made. See ch. NR 410 for current fee amounts and additional review fees.

A. Permit Actions:

○ New Construction/Modification ($7,500) – Anticipated start dates: _____ (Construction) _____ (Operation)

☐ **Requesting Expedited Review –** If expedited review of construction permit is requested and fulfilled within expected time period, the construction permit review fee, invoiced with the final permit, will include an additional charge from $4000 to $7500 depending on the permit type and timeframe in which is issued. See ch. NR 410 for fee details.

☐ **Requesting Waiver to Commerce Construction** under s. NR 406.03(2), Wis. Adm. Code (include a fee of $300 in addition to construction permit initial application fee of $7500)

○ Construction Permit Revision ($1,500 fee) – List Permit(s) to be revised: _____

☐ **Project involves construction on over 10,000 square fee of undisturbed ground.**

B. Construction Permit Exemptions (indicate one): If you are requesting a review and response to an exemption, a check must be included for the appropriate exemption fee listed below in parentheses.

○ Actual Emissions-Based Exemption (for construction project only) ($1,250)
○ Research & Testing ($1,250)
○ Modification for source with Plant-wide Applicability Limit ($1,500 / $2,400 with modeling)
○ Significant Net Emissions Increase ($5,500 / $6,500 with modeling)
○ General exemption ($500 - NR 406.04(2))
◉ Specific exemptions ($500) – **Select appropriate code citation(s) from list:** NR 406.04(1)(m)
○ Other: _____

For more information on exemption citations: https://docs.legis.wisconsin.gov/code/admin_code/nr/400/406.pdf

21. Operation Permit Actions:

A. Operation Permit Actions (if applying for an operation permit select the type you are requesting. For Operation permit exemptions see section 21.C):

- ◯ Original Operation Permit
- ◯ Renewal **NOTE:** For more information: https://dnr.wi.gov/topic/AirPermits/Renew.html
- ◯ Revision (Identify Type: _____)

Note: List Permit(s) to be renewed or revised:

B. Type of Operation Permit Requested **(select one)**:

- ◯ Part 70 Source
- ◯ Synthetic Minor, Non - Part 70 Source
- ◯ Non - Part 70 Source
- ◯ Elective

NOTE: Facilities that do not have a facility-wide operation permit issued MUST select the appropriate option. All other requests should indicate type of permit, to reflect continued or changing status.

C. Operation Permit Exemption Options (If applying for an operation permit exemption, select the type of exemption you are requesting):

- ◯ Actual Emissions Based Exemption (NR 407.03(1m))
- ◯ Natural Minor Source Exemption (NR 407.03(1s))
- ◯ General Category of Exemptions (NR 407.03(2))
- ◯ Specific Categories of Exemptions (NR 407.03(1))

Note: Actual Emissions Based and Natural Minor Source Exemptions required revocation of existing operation permits.

Select appropriate code citation(s) from list: _____

22. For All Permit Actions:

Is additional information attached? ◉ Yes ◯ No

Submit two paper copies of completed form(s), with ink signature on this form, and additional information to:

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
BUREAU OF AIR MANAGEMENT
P.O. BOX 7921
MADISON, WI 53707-7921

OR Email an electronic copy to DNRAMAirPermit@wisconsin.gov and mail one complete paper copy with ink signature to the address above.

23. Signature of Responsible Official

A. Statement of Completeness:
I have reviewed this application in its entirety and, based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate and complete.

B. Certification of Facility Compliance Status: (select one box only) This is not a requirement for initial non-part 70 source operation permit applications and initial applications for new or modified sources for which no construction permit is required. (NR 407.05(8))

- ◉ I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements.
- ◯ I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements, except for the following emissions unit(s) (list all non-complying units): _____

Frank Dombrowski
Signature of Responsible Official

5/2/2022
Date Signed

FACILITY DETAILS AND PERMIT ACTIONS – Form 4530-100
AIR POLLUTION CONTROL APPLICATION INSTRUCTIONS

Notice: Completion of this form is required by the department for any air pollution control permit application filed pursuant to ss. 285.61, 285.62 or 285.66, Wis. Stats. The department will not consider or act upon an application unless this form is submitted and is complete. Any personal information collected will be used for administrative purposes only and may be provided to requesters to the extent required by Wisconsin's Public Records Law [ss. 19.31-19.39, Wis. Stats.].

Use Form 4530-100 to apply for the following types of air pollution control permits:

- Construction Permits
- Construction Permit Exemptions
- Operation Permits
- Operation Permit Renewals
- Operation Permit Revisions
- Operation Permit Exemptions

Item 1 Provide the Facility Name

Item 2 Provide the industrial code identifying the primary business activity, include both Standard Industrial Classification (SIC) code and North American Industry Classification System (NAICS) code.

Item 3 Provide the facility identification (FID) number that appears on the annual emissions inventory reports. A new facility will be assigned this number by the Department.

Item 4 Provide the physical location of the source of air pollution emissions.

Item 5 Identify the municipality where the facility is/will be located.

Item 6 Identify the county in which the facility is/will be located.

Item 7 Provide a short description of the primary operating activity.

Item 8 Indicate whether the county in which the facility is/will be located is designated non-attainment. This may be found on the USEPA website at https://www.epa.gov/green-book. Check the links for each pollutant with the most recent date for the current nonattainment counties.

Item 9 List all pollutants for which the facility's county location is designated nonattainment as indicated by USEPA.

Item 10 Provide the name of the Responsible Official. This person must be legally responsible for the operation of the facility being permitted. Refer to s. NR 400.02(136), Wis. Adm. Code, for the definition.

Item 11 Provide the Title of the Responsible Official.

Item 12 Provide the email address for the Responsible Official.

Item 13 Provide the full mailing address for the Responsible Official.

Item 14 Identify the Parent Corporation or Owner of the facility, if not wholly owned by the facility listed in Item 1.

Item 15 Provide the full mailing address for the Parent Corporation/Owner, if applicable.

Item 16 Provide the name of the individual who can respond to specific questions on the permit application being submitted with this form.

Item 17 Provide the email address for the Permit Contact listed in item 16.

Item 18 Identify the title of the Permit Contact, including whether they are a consultant working on behalf of the facility.

Item 19 Provide the phone number for the Permit Contact.

Item 20 If applying for a construction permit, construction permit revision or construction permit exemption determination, indicate the Construction Permit Action(s) and Associated Operation Permit type being requested. Check one box in either Section A or Section B AND check the appropriate box in Section C. Each construction permit action has a specific fee listed in parentheses following the item. These fees must be submitted with the application.

FACILITY DETAILS AND PERMIT ACTIONS – Form 4530-100
AIR POLLUTION CONTROL APPLICATION INSTRUCTIONS

Section A. Check the appropriate box for either a New Construction/Modification or Construction Permit Revision. If requesting a construction permit enter appropriate dates for the anticipated start of construction or modification and operation. If requesting an expedited review of a construction permit application, check the indicated box. The expedited review fee will be included in the final permit invoice if the deadline was met. If requesting a waiver to commence construction under s. NR 406.03(2), Wis. Adm. Code, check the indicated box and include an additional $300 fee with the construction permit initial application fee of $7500. The department will not act on the waiver request until the $300 fee is received. If requesting a construction permit revision list the construction permits to be revised. If the project covered by the application will involve construction on over 10,000 square feet of undisturbed ground, check the indicated box.

Section B. If applying for a construction permit exemption determination, indicate the type of exemption determination being requested. Submit the appropriate fee indicated in parentheses after the selected option. For the Specific Exemption option, identify the appropriate citation from s. NR 406.04(1), Wis. Adm. Code.

IMPORTANT: Each New Construction/Modification Permit, Construction Permit Revision or Construction Permit Exemption MUST also have an associated operation permit action. Indicate the appropriate operation permit action in either Item 21. Section A., if requesting an Operation Permit, OR Item 21. Section C., if requesting an Operation Permit Exemption

Item 21 Check one box in *either* Section A OR Section C when applying for an Operation Permit or Operation Permit Exemption. Indicate the type of Operation Permit being requested in Section B.

Section A. Indicate whether an initial operation permit, operation permit renewal or revision is being requested. If requesting a Construction Permit Action in Item 20.A. or Item 20.B., select:

- "Original Operation Permit" if the facility does not currently have a facility-wide operation permit,
- "Renewal" if the facility-wide operation permit will be renewed in conjunction with the proposed project, OR
- "Revision" so the facility-wide operation permit will be revised to reflect the proposed project.

Refer to the Renewal Application Checklist (found at: https://dnr.wi.gov/topic/AirPermits/Renew.html) for more information about renewals. When requesting an operation permit revision, indicate the appropriate revision type based on the criteria in ss. NR 407.11 through NR 407.13, Wis. Adm. Code. The majority of changes to operation permits must be processed as Significant Revisions, pursuant to s. NR 407.13, Wis. Adm. Code. Only the changes identified in s. NR 407.11, Wis. Adm. Code qualify for an Administrative Revision. Few changes qualify for Minor Revisions as identified in s. NR 407.12, Wis. Adm. Code. An application for a Minor Revision must contain all the information identified in s. NR 407.12(3), Wis. Adm. Code. If uncertain, leave the revision type blank and the department will process the revision application according to the appropriate type. Identify the operation permit to be renewed or revised in the box.

Section B. If requesting an Operation Permit in Item 21.A., indicate the type of Operation Permit being requested. This should reflect the proposed facility status based on the information included in the application.

Section C. If requesting an Operation Permit Exemption identify the appropriate type from those listed in this section. Actual Emission Based and Natural Minor Source exemptions require revocation of existing operation permits. If requesting a Specific Category of Operation Permit Exemption, identify the appropriate citation from s. NR 407.03(1), Wis. Adm. Code for the specific exemption being requested.

Item 22 Indicate whether additional information is attached and whether two copies are being submitted (one copy may be electronic). All electronic copies should be emailed to: DNRAMAirPermit@wisconsin.gov. Submit the application according to the appropriate instructions and to the appropriate address and include any required application fee to ensure the application is handled as expeditiously as possible.

Item 23 Review the statements in the signature block.

All operation permit, operation permit renewal and significant operation permit revisions applications require a Certification of Facility Compliance Status, except for initial non-part 70 source operation permit applications and initial applications for new or modified sources for which no construction permit is required. If this is an application for a construction or operation permit exemption, an application for an administrative or minor operation permit revision, or an application for a non-Part 70 operation permit for a source that does not currently have an operation permit, this certification is not required. Check the appropriate box to indicate whether the facility is in compliance with all applicable requirements or to identify requirements with which the facility is not in compliance. This should include determining compliance status with all applicable requirements in the facility's current operation permit, any construction permits issued to the facility, and any additional, new or updated applicable requirements. See the definition of "applicable requirement" in s. NR 400.02(26), Wis. Adm. Code. If there are applicable requirements with which the facility is not in compliance, complete Forms 4530-130 through 4530-133 to identify those requirements and submit a compliance plan and schedule. For sources that are in compliance with all applicable requirements, complete Item 5 on Form 4530-131 and Item 3 on Form 4530-133.

After reviewing and completing the statements, the Responsible Official should print their name and title, sign and date. Submit the original signed copy to the department along with one hard copy.

Geosyntec consultants

10600 N. Port Washington Road, Suite 100
Mequon, WI 53092
PH 262.377.9828
www.geosyntec.com

ADDITIONAL INFORMATION
REQUEST FOR EXEMPTION UNDER NR 406.04(1)(m)

Prepared for: Wisconsin Electric Power Company (d.b.a., We Energies)

Prepared by: Geosyntec Consultants
Jeremiah Johnson, P.G., Senior Geologist
Greg Johnson, P.H., P.G., P.E., Senior Engineer
Project Number CHE8094OQ

Date: May 2, 2022

Ref: Metro North Service Center
3100 West North Avenue
Milwaukee, Wisconsin 53208
WDNR BRRTS # 02-41-583015
WDNR FID # 241311510

This Additional Information is provided in support of a request for an exemption from an air pollution construction permit pursuant to NR 406.04(1)(m) for a vapor mitigation system (VMS) at the Metro North Service Center (MNSC) site located at 3100 West North Avenue, Milwaukee, Wisconsin ("Site").

This Additional Information includes salient background information, air emissions sampling information, air emissions calculations, conclusions and attachments. The air emissions calculations demonstrate that the following NR 406.04(1)(m) exemption criteria have been met:

- Total potential volatile organic compound (VOC) emissions are not greater than 5.7 pounds per hour (lb/hr).
- The potential to emit for the primary Site contaminant [tetrachloroethene (PCE)] and other detected VOCs are not greater than the NR 445.07 thresholds.

1. BACKGROUND INFORMATION

The Site VMS is an active submembrane depressurization system installed in the southwest portion of the Site building. The VMS includes a submembrane venting system [venting layer with three (3) riser pipes, blowers, and exhaust stacks] and a barrier layer above the venting layer.

The venting layer consists of a 6-inch coarse granular layer with incorporated GEOVENT™ conveyance units (1-foot wide by 1-inch thick, three-dimensional vent core wrapped in a non-

woven, needle-punched filter fabric). The barrier layer consists of a 20-mil VI-20™ polyethylene geomembrane overlain by a minimum 60-mil LIQUID BOOT® spray-applied barrier.

The venting layer is connected to three (3) 4-inch diameter polyvinyl chloride (PVC) riser pipes (EP-1, EP-2 and EP-3). The riser pipes extend to individual blowers installed on the roof. Exhaust stacks extend from the top of each blower. The exhaust stacks extend to a height of approximately 17 feet above the ground surface.

The Site and VMS layout, including the exhaust stack locations, are depicted on **Figure 1** (Site Layout Map) and **Figure 2** (Vapor Mitigation System As-Built Layout) provided in **Attachment 1.**

2. AIR EMISSIONS SAMPLING

VMS air emissions samples were collected from each riser pipe (EP-1, EP-2 and EP-3) during VMS operational testing on March 18, 2022. A duplicate sample was also collected from EP-2 (EP-2 DUP).

The air emissions samples were collected by connecting a 1-liter batch-certified Summa® canister with Nylaflow™ tubing connected to the sampling port on each riser pipe. The samples were submitted to a NR 149 accredited laboratory [Pace Analytical Services, LLC (Pace)] under standard chain-of-custody protocols for laboratory analysis of VOCs by EPA-Method TO-15. The Pace laboratory report is provided in **Attachment 2**.

During sampling, the air flow velocity and vacuum were measured. The air flow velocity was measured using a Dwyer Model 471B Digital Thermo Anemometer at the measurement port installed on each riser pipe. Vacuum was measured by a Dwyer Magnehelic® Differential Pressure Gauge mounted on each riser pipe.

3. AIR EMISSION CALCULATIONS

Table 1 (Emissions Calculations Summary) provided in **Attachment 3** provides a summary of the detected VOCs, detected concentrations[1], measured flow velocity, measured vacuum, calculated volumetric flow rate and calculated mass flux (emissions) for each riser pipe and the calculated total mass flux for the system (EP-1 + EP-2 + EP-3). **Table 1** also provides applicable NR 406.04 and NR 445.07 emissions thresholds.

[1] For EP-2, the highest concentration between the EP-2 and EP-2 DUP samples is provided in **Table 1** and subsequently used for the EP-2 mass flux calculation.

As provided in **Table 1**, the calculated total system VOC emissions is 0.00075 pounds per hour (lb/hr) or 6.6 pounds per year (lb/yr). This total system VOC emissions rate is four orders of magnitude less than the NR 406.04 threshold for organic compounds of not more than 5.7 lb/hr.

PCE makes up most of the VOC emissions. As provided in **Table 1**, the calculated total system PCE emissions is 0.00047 lb/hr (4.14 lb/yr). These total system PCE emissions rates are four and two orders of magnitude less than the NR 445.07 PCE thresholds (for stacks heights less than 25 feet) of 9.11 lb/hr and 301 lb/yr, respectively.

As provided in **Table 1**, the total system emissions for other detected VOCs were at least four orders of magnitude less than NR 445.07 emissions thresholds.

4. CONCLUSIONS

Based on the air emissions calculations, the total potential VOC emissions are not greater than 5.7 lb/hr and the potential to emit for the primary VOC (PCE) and other detected VOCs are not greater than the NR 445.07 thresholds for a stack height less than 25 feet. Therefore, an exemption under NR 406.04(1)(m) for the Site VMS is appropriate.

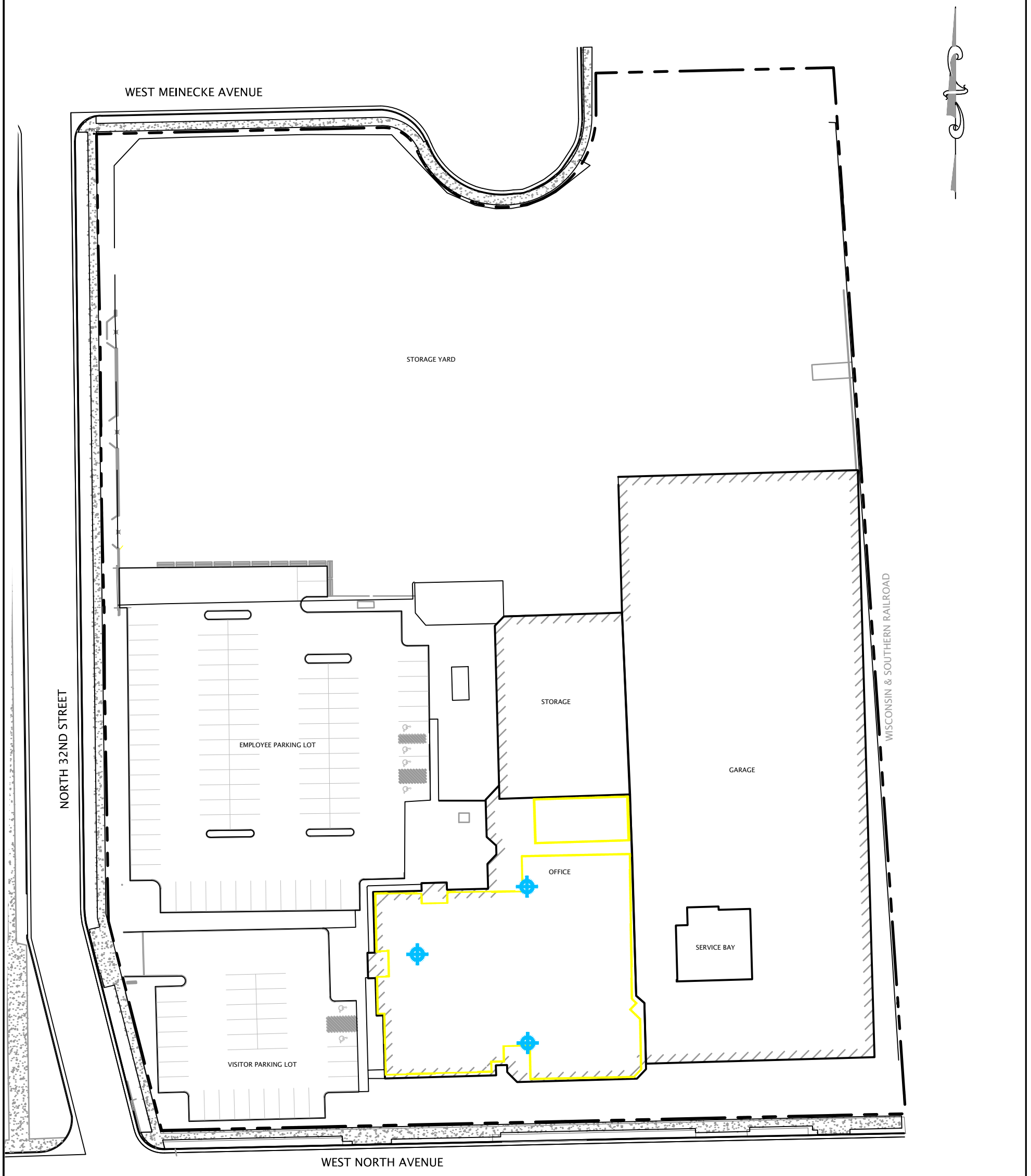
5. LIST OF ATTACHMENTS

The following is the list of the attachments to this Additional Information:

Attachment 1 - Figures
Attachment 2 - Laboratory Report
Attachment 3 - Table 1 (Emissions Calculations Summary)

ATTACHMENT 1

Figures



SCALE IN FEET

0 60'

LEGEND:

- APPROXIMATE SITE PROPERTY LINE
- EXISTING SITE PROPERTY BUILDING
- EXTENT OF VMS BARRIER LAYER
- APPROXIMATE VMS VENTING SYSTEM BLOWER/EXHAUST STACK LOCATION

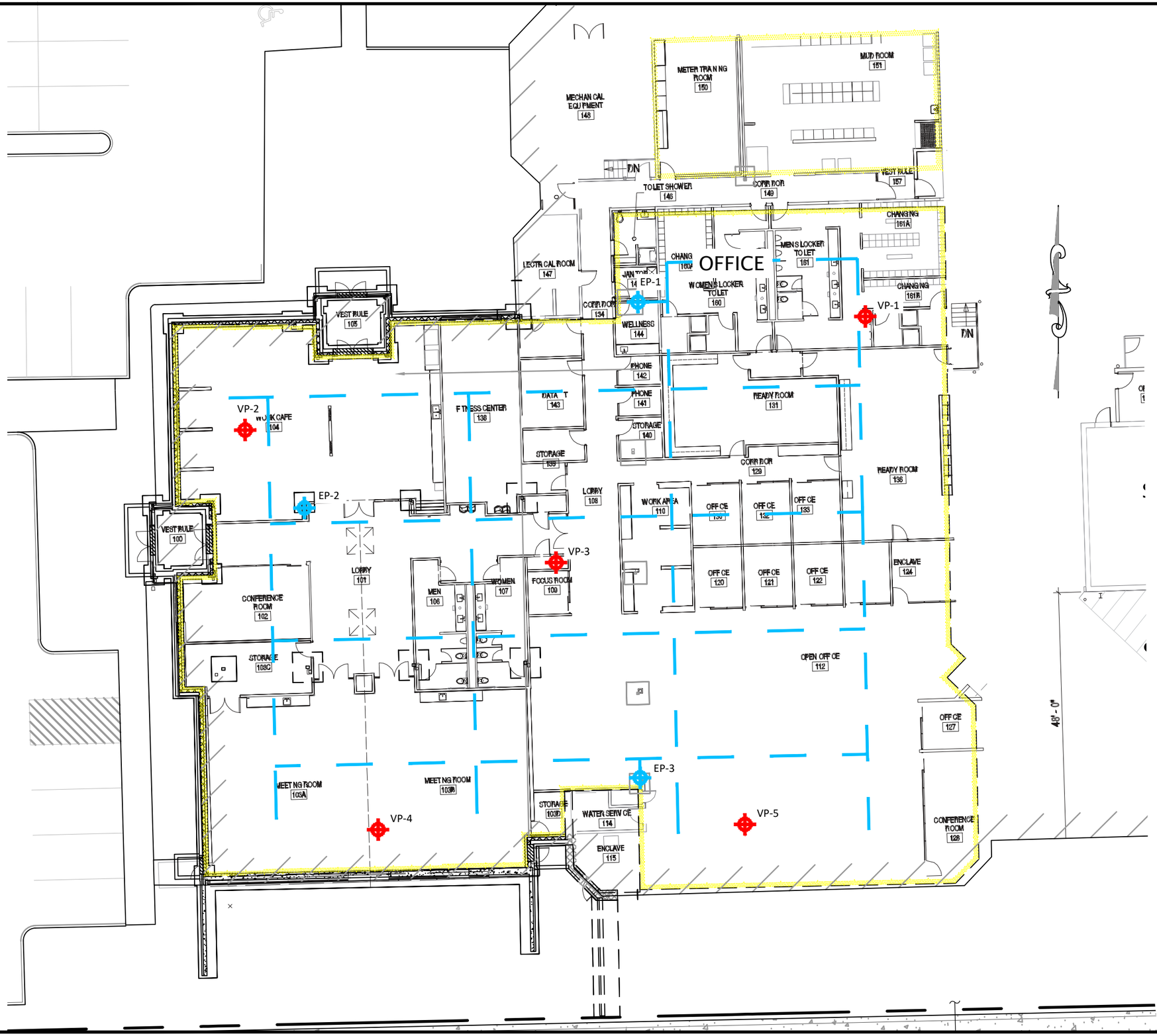
NOTES:

VMS - VAPOR MITIGATION SYSTEM

Geosyntec consultants

CLIENT:	WE ENERGIES
PROJECT:	METRO NORTH SERVICE CENTER (MNSC) 3100 WEST NORTH AVENUE MILWAUKEE, WISCONSIN
TITLE:	SITE LAYOUT MAP

PROJECT: CHE8094OQ	FIGURE NO.: 1	DRAWING NO.: 1 OF 2
DATE: January 20, 2022	FILE NO.:2005 MNSCP 002	



LEGEND:

- EXTENT OF VMS BARRIER LAYER
- VMS VENTING LAYER GEOVENT™ LOCATION
- EP-1 — 4" DIA RISER PIPE LOCATION
- VP-1 — APPROXIMATE VAPOR PROBE LOCATION

NOTES:

VMS - VAPOR MITIGATION SYSTEM

SCALE IN FEET

0 60'

Geosyntec consultants

CLIENT:	WE ENERGIES
PROJECT:	METRO NORTH SERVICE CENTER (MNSC) 3100 WEST NORTH AVENUE MILWAUKEE, WISCONSIN
TITLE:	VAPOR MITIGATION SYSTEM AS-BUILT LAYOUT

PROJECT: CHE8094OQ	FIGURE NO.: 2	DRAWING NO.: 2 OF 2
DATE: Febuary 8, 2022	FILE NO.:20-05 MNSCP 002	

ATTACHMENT 2

Laboratory Report

Additional Information - Request for Exemption under NR 406.04(1)(m)
Metro North Service Center
3100 West North Avenue
Milwaukee, Wisconsin
WDNR BRRTS # 02-41-583015
WDNR FID # 241311510

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

April 04, 2022

David Zolp
Geosyntec
W67/N222 Evergreen Blvd.
Suite 113
Cedarburg, WI 53012

RE: Project: CHE80940Q MNSC
Pace Project No.: 10601404

Dear David Zolp:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2022. 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
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: CHE80940Q MNSC
Pace Project No.: 10601404

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 (*).

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: CHE80940Q MNSC
Pace Project No.: 10601404

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10601404001	**EP-1**	Air	03/18/22 11:12	03/21/22 10:37
10601404002	**EP-2**	Air	03/18/22 11:38	03/21/22 10:37
10601404003	**EP-2 DUP**	Air	03/18/22 11:38	03/21/22 10:37
10601404004	**EP-3**	Air	03/18/22 11:00	03/21/22 10:37

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: CHE80940Q MNSC
Pace Project No.: 10601404

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10601404001	**EP-1**	TO-15	HMH	61
10601404002	**EP-2**	TO-15	HMH	61
10601404003	**EP-2 DUP**	TO-15	HMH	61
10601404004	**EP-3**	TO-15	HMH	61

PASI-M = Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: CHE80940Q MNSC
Pace Project No.: 10601404

Sample: EP-1 **Lab ID: 10601404001** Collected: 03/18/22 11:12 Received: 03/21/22 10:37 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Acetone	**18.9**	ug/m3	11.3	3.4	1.87		03/31/22 18:14	67-64-1	
Benzene	**<0.21**	ug/m3	0.61	0.21	1.87		03/31/22 18:14	71-43-2	
Benzyl chloride	**<1.7**	ug/m3	4.9	1.7	1.87		03/31/22 18:14	100-44-7	
Bromodichloromethane	**<0.44**	ug/m3	2.5	0.44	1.87		03/31/22 18:14	75-27-4	
Bromoform	**<3.0**	ug/m3	9.8	3.0	1.87		03/31/22 18:14	75-25-2	
Bromomethane	**<0.28**	ug/m3	1.5	0.28	1.87		03/31/22 18:14	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.84	0.22	1.87		03/31/22 18:14	106-99-0	
2-Butanone (MEK)	**6.2**	ug/m3	5.6	0.87	1.87		03/31/22 18:14	78-93-3	
Carbon disulfide	**6.7**	ug/m3	1.2	0.24	1.87		03/31/22 18:14	75-15-0	
Carbon tetrachloride	**<0.52**	ug/m3	2.4	0.52	1.87		03/31/22 18:14	56-23-5	
Chlorobenzene	**<0.29**	ug/m3	1.8	0.29	1.87		03/31/22 18:14	108-90-7	
Chloroethane	**<0.42**	ug/m3	1.0	0.42	1.87		03/31/22 18:14	75-00-3	
Chloroform	**<0.34**	ug/m3	0.93	0.34	1.87		03/31/22 18:14	67-66-3	
Chloromethane	**<0.16**	ug/m3	0.79	0.16	1.87		03/31/22 18:14	74-87-3	
Cyclohexane	**2.1J**	ug/m3	3.3	0.41	1.87		03/31/22 18:14	110-82-7	
Dibromochloromethane	**<0.96**	ug/m3	3.2	0.96	1.87		03/31/22 18:14	124-48-1	
1,2-Dibromoethane (EDB)	**<0.56**	ug/m3	1.5	0.56	1.87		03/31/22 18:14	106-93-4	
1,2-Dichlorobenzene	**<0.76**	ug/m3	5.7	0.76	1.87		03/31/22 18:14	95-50-1	
1,3-Dichlorobenzene	**<0.95**	ug/m3	5.7	0.95	1.87		03/31/22 18:14	541-73-1	
1,4-Dichlorobenzene	**<1.6**	ug/m3	5.7	1.6	1.87		03/31/22 18:14	106-46-7	
Dichlorodifluoromethane	**25.4**	ug/m3	1.9	0.35	1.87		03/31/22 18:14	75-71-8	
1,1-Dichloroethane	**<0.31**	ug/m3	1.5	0.31	1.87		03/31/22 18:14	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	1.5	0.36	1.87		03/31/22 18:14	107-06-2	
1,1-Dichloroethene	**<0.26**	ug/m3	1.5	0.26	1.87		03/31/22 18:14	75-35-4	
cis-1,2-Dichloroethene	**3.1**	ug/m3	1.5	0.36	1.87		03/31/22 18:14	156-59-2	
trans-1,2-Dichloroethene	**<0.31**	ug/m3	1.5	0.31	1.87		03/31/22 18:14	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/m3	1.8	0.50	1.87		03/31/22 18:14	78-87-5	
cis-1,3-Dichloropropene	**<0.48**	ug/m3	4.3	0.48	1.87		03/31/22 18:14	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/m3	4.3	1.0	1.87		03/31/22 18:14	10061-02-6	
Dichlorotetrafluoroethane	**<0.38**	ug/m3	2.7	0.38	1.87		03/31/22 18:14	76-14-2	
Ethanol	**11.9**	ug/m3	3.6	1.1	1.87		03/31/22 18:14	64-17-5	
Ethyl acetate	**<0.24**	ug/m3	1.4	0.24	1.87		03/31/22 18:14	141-78-6	
Ethylbenzene	**<0.58**	ug/m3	1.7	0.58	1.87		03/31/22 18:14	100-41-4	
4-Ethyltoluene	**<0.88**	ug/m3	4.7	0.88	1.87		03/31/22 18:14	622-96-8	
n-Heptane	**<0.34**	ug/m3	1.6	0.34	1.87		03/31/22 18:14	142-82-5	
Hexachloro-1,3-butadiene	**<2.3**	ug/m3	10.1	2.3	1.87		03/31/22 18:14	87-68-3	
n-Hexane	**<0.36**	ug/m3	1.3	0.36	1.87		03/31/22 18:14	110-54-3	
2-Hexanone	**<0.83**	ug/m3	7.8	0.83	1.87		03/31/22 18:14	591-78-6	
Methylene Chloride	**<1.1**	ug/m3	6.6	1.1	1.87		03/31/22 18:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.0J**	ug/m3	7.8	0.60	1.87		03/31/22 18:14	108-10-1	
Methyl-tert-butyl ether	**<0.24**	ug/m3	6.8	0.24	1.87		03/31/22 18:14	1634-04-4	
Naphthalene	**<4.1**	ug/m3	5.0	4.1	1.87		03/31/22 18:14	91-20-3	
2-Propanol	**<0.95**	ug/m3	4.7	0.95	1.87		03/31/22 18:14	67-63-0	
Propylene	**1.9**	ug/m3	1.6	0.24	1.87		03/31/22 18:14	115-07-1	
Styrene	**<0.72**	ug/m3	1.6	0.72	1.87		03/31/22 18:14	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: CHE80940Q MNSC
Pace Project No.: 10601404

Sample: EP-1 **Lab ID: 10601404001** Collected: 03/18/22 11:12 Received: 03/21/22 10:37 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,1,2,2-Tetrachloroethane	**<0.70**	ug/m3	2.6	0.70	1.87		03/31/22 18:14	79-34-5	
Tetrachloroethene	**426**	ug/m3	6.4	2.7	9.35		04/01/22 12:41	127-18-4	
Tetrahydrofuran	**6.4**	ug/m3	1.1	0.34	1.87		03/31/22 18:14	109-99-9	
Toluene	**3.7**	ug/m3	1.4	0.46	1.87		03/31/22 18:14	108-88-3	
1,2,4-Trichlorobenzene	**<9.1**	ug/m3	14.1	9.1	1.87		03/31/22 18:14	120-82-1	
1,1,1-Trichloroethane	**<0.35**	ug/m3	2.1	0.35	1.87		03/31/22 18:14	71-55-6	
1,1,2-Trichloroethane	**<0.37**	ug/m3	1.0	0.37	1.87		03/31/22 18:14	79-00-5	
Trichloroethene	**9.9**	ug/m3	1.0	0.37	1.87		03/31/22 18:14	79-01-6	
Trichlorofluoromethane	**228**	ug/m3	2.1	0.44	1.87		03/31/22 18:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.54**	ug/m3	2.9	0.54	1.87		03/31/22 18:14	76-13-1	
1,2,4-Trimethylbenzene	**<0.66**	ug/m3	1.9	0.66	1.87		03/31/22 18:14	95-63-6	
1,3,5-Trimethylbenzene	**<0.54**	ug/m3	1.9	0.54	1.87		03/31/22 18:14	108-67-8	
Vinyl acetate	**<0.39**	ug/m3	1.3	0.39	1.87		03/31/22 18:14	108-05-4	
Vinyl chloride	**<0.16**	ug/m3	0.49	0.16	1.87		03/31/22 18:14	75-01-4	
m&p-Xylene	**1.3J**	ug/m3	3.3	1.2	1.87		03/31/22 18:14	179601-23-1	
o-Xylene	**<0.51**	ug/m3	1.7	0.51	1.87		03/31/22 18:14	95-47-6	

Sample: EP-2 **Lab ID: 10601404002** Collected: 03/18/22 11:38 Received: 03/21/22 10:37 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Acetone	**16.0**	ug/m3	10.7	3.2	1.77		03/31/22 18:48	67-64-1	
Benzene	**0.77**	ug/m3	0.58	0.20	1.77		03/31/22 18:48	71-43-2	
Benzyl chloride	**<1.6**	ug/m3	4.7	1.6	1.77		03/31/22 18:48	100-44-7	
Bromodichloromethane	**<0.42**	ug/m3	2.4	0.42	1.77		03/31/22 18:48	75-27-4	
Bromoform	**<2.9**	ug/m3	9.3	2.9	1.77		03/31/22 18:48	75-25-2	
Bromomethane	**<0.27**	ug/m3	1.4	0.27	1.77		03/31/22 18:48	74-83-9	
1,3-Butadiene	**<0.21**	ug/m3	0.80	0.21	1.77		03/31/22 18:48	106-99-0	
2-Butanone (MEK)	**3.7J**	ug/m3	5.3	0.82	1.77		03/31/22 18:48	78-93-3	
Carbon disulfide	**<0.23**	ug/m3	1.1	0.23	1.77		03/31/22 18:48	75-15-0	
Carbon tetrachloride	**<0.50**	ug/m3	2.3	0.50	1.77		03/31/22 18:48	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.7	0.27	1.77		03/31/22 18:48	108-90-7	
Chloroethane	**<0.40**	ug/m3	0.95	0.40	1.77		03/31/22 18:48	75-00-3	
Chloroform	**0.42J**	ug/m3	0.88	0.32	1.77		03/31/22 18:48	67-66-3	
Chloromethane	**<0.15**	ug/m3	0.74	0.15	1.77		03/31/22 18:48	74-87-3	
Cyclohexane	**2.7J**	ug/m3	3.1	0.39	1.77		03/31/22 18:48	110-82-7	
Dibromochloromethane	**<0.91**	ug/m3	3.1	0.91	1.77		03/31/22 18:48	124-48-1	
1,2-Dibromoethane (EDB)	**<0.53**	ug/m3	1.4	0.53	1.77		03/31/22 18:48	106-93-4	
1,2-Dichlorobenzene	**<0.72**	ug/m3	5.4	0.72	1.77		03/31/22 18:48	95-50-1	
1,3-Dichlorobenzene	**<0.90**	ug/m3	5.4	0.90	1.77		03/31/22 18:48	541-73-1	
1,4-Dichlorobenzene	**<1.6**	ug/m3	5.4	1.6	1.77		03/31/22 18:48	106-46-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: CHE80940Q MNSC
Pace Project No.: 10601404

Sample: EP-2 **Lab ID: 10601404002** Collected: 03/18/22 11:38 Received: 03/21/22 10:37 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Dichlorodifluoromethane	**4.1**	ug/m3	1.8	0.33	1.77		03/31/22 18:48	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.77		03/31/22 18:48	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	1.5	0.34	1.77		03/31/22 18:48	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/m3	1.4	0.24	1.77		03/31/22 18:48	75-35-4	
cis-1,2-Dichloroethene	**15.8**	ug/m3	1.4	0.35	1.77		03/31/22 18:48	156-59-2	
trans-1,2-Dichloroethene	**<0.30**	ug/m3	1.4	0.30	1.77		03/31/22 18:48	156-60-5	
1,2-Dichloropropane	**<0.48**	ug/m3	1.7	0.48	1.77		03/31/22 18:48	78-87-5	
cis-1,3-Dichloropropene	**<0.45**	ug/m3	4.1	0.45	1.77		03/31/22 18:48	10061-01-5	
trans-1,3-Dichloropropene	**<0.96**	ug/m3	4.1	0.96	1.77		03/31/22 18:48	10061-02-6	
Dichlorotetrafluoroethane	**<0.36**	ug/m3	2.5	0.36	1.77		03/31/22 18:48	76-14-2	
Ethanol	**25.9**	ug/m3	3.4	1.0	1.77		03/31/22 18:48	64-17-5	
Ethyl acetate	**<0.23**	ug/m3	1.3	0.23	1.77		03/31/22 18:48	141-78-6	
Ethylbenzene	**36.3**	ug/m3	1.6	0.55	1.77		03/31/22 18:48	100-41-4	
4-Ethyltoluene	**2.2J**	ug/m3	4.4	0.84	1.77		03/31/22 18:48	622-96-8	
n-Heptane	**<0.32**	ug/m3	1.5	0.32	1.77		03/31/22 18:48	142-82-5	
Hexachloro-1,3-butadiene	**<2.2**	ug/m3	9.6	2.2	1.77		03/31/22 18:48	87-68-3	
n-Hexane	**3.9**	ug/m3	1.3	0.34	1.77		03/31/22 18:48	110-54-3	
2-Hexanone	**<0.78**	ug/m3	7.4	0.78	1.77		03/31/22 18:48	591-78-6	
Methylene Chloride	**<1.0**	ug/m3	6.2	1.0	1.77		03/31/22 18:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.57**	ug/m3	7.4	0.57	1.77		03/31/22 18:48	108-10-1	
Methyl-tert-butyl ether	**<0.22**	ug/m3	6.5	0.22	1.77		03/31/22 18:48	1634-04-4	
Naphthalene	**<3.8**	ug/m3	4.7	3.8	1.77		03/31/22 18:48	91-20-3	
2-Propanol	**<0.90**	ug/m3	4.4	0.90	1.77		03/31/22 18:48	67-63-0	
Propylene	**4.9**	ug/m3	1.5	0.23	1.77		03/31/22 18:48	115-07-1	
Styrene	**<0.68**	ug/m3	1.5	0.68	1.77		03/31/22 18:48	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.66**	ug/m3	2.5	0.66	1.77		03/31/22 18:48	79-34-5	
Tetrachloroethene	**779**	ug/m3	6.1	2.6	8.85		04/01/22 13:12	127-18-4	
Tetrahydrofuran	**<0.32**	ug/m3	1.1	0.32	1.77		03/31/22 18:48	109-99-9	
Toluene	**16.6**	ug/m3	1.4	0.43	1.77		03/31/22 18:48	108-88-3	
1,2,4-Trichlorobenzene	**<8.6**	ug/m3	13.3	8.6	1.77		03/31/22 18:48	120-82-1	
1,1,1-Trichloroethane	**<0.33**	ug/m3	2.0	0.33	1.77		03/31/22 18:48	71-55-6	
1,1,2-Trichloroethane	**<0.35**	ug/m3	0.98	0.35	1.77		03/31/22 18:48	79-00-5	
Trichloroethene	**20.5**	ug/m3	0.97	0.35	1.77		03/31/22 18:48	79-01-6	
Trichlorofluoromethane	**125**	ug/m3	2.0	0.41	1.77		03/31/22 18:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.51**	ug/m3	2.8	0.51	1.77		03/31/22 18:48	76-13-1	
1,2,4-Trimethylbenzene	**4.7**	ug/m3	1.8	0.63	1.77		03/31/22 18:48	95-63-6	
1,3,5-Trimethylbenzene	**1.6J**	ug/m3	1.8	0.51	1.77		03/31/22 18:48	108-67-8	
Vinyl acetate	**<0.37**	ug/m3	1.3	0.37	1.77		03/31/22 18:48	108-05-4	
Vinyl chloride	**<0.15**	ug/m3	0.46	0.15	1.77		03/31/22 18:48	75-01-4	
m&p-Xylene	**110**	ug/m3	3.1	1.1	1.77		03/31/22 18:48	179601-23-1	
o-Xylene	**22.9**	ug/m3	1.6	0.48	1.77		03/31/22 18:48	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: CHE80940Q MNSC
Pace Project No.: 10601404

Sample: EP-2 DUP **Lab ID: 10601404003** Collected: 03/18/22 11:38 Received: 03/21/22 10:37 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Acetone	**14.7**	ug/m3	11.1	3.3	1.83		03/31/22 19:22	67-64-1	
Benzene	**0.78**	ug/m3	0.59	0.21	1.83		03/31/22 19:22	71-43-2	
Benzyl chloride	**<1.6**	ug/m3	4.8	1.6	1.83		03/31/22 19:22	100-44-7	
Bromodichloromethane	**<0.43**	ug/m3	2.5	0.43	1.83		03/31/22 19:22	75-27-4	
Bromoform	**<3.0**	ug/m3	9.6	3.0	1.83		03/31/22 19:22	75-25-2	
Bromomethane	**<0.27**	ug/m3	1.4	0.27	1.83		03/31/22 19:22	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.82	0.22	1.83		03/31/22 19:22	106-99-0	
2-Butanone (MEK)	**3.0J**	ug/m3	5.5	0.85	1.83		03/31/22 19:22	78-93-3	
Carbon disulfide	**4.7**	ug/m3	1.2	0.24	1.83		03/31/22 19:22	75-15-0	
Carbon tetrachloride	**<0.51**	ug/m3	2.3	0.51	1.83		03/31/22 19:22	56-23-5	
Chlorobenzene	**<0.28**	ug/m3	1.7	0.28	1.83		03/31/22 19:22	108-90-7	
Chloroethane	**<0.41**	ug/m3	0.98	0.41	1.83		03/31/22 19:22	75-00-3	
Chloroform	**0.55J**	ug/m3	0.91	0.33	1.83		03/31/22 19:22	67-66-3	
Chloromethane	**<0.16**	ug/m3	0.77	0.16	1.83		03/31/22 19:22	74-87-3	
Cyclohexane	**2.8J**	ug/m3	3.2	0.40	1.83		03/31/22 19:22	110-82-7	
Dibromochloromethane	**<0.94**	ug/m3	3.2	0.94	1.83		03/31/22 19:22	124-48-1	
1,2-Dibromoethane (EDB)	**<0.55**	ug/m3	1.4	0.55	1.83		03/31/22 19:22	106-93-4	
1,2-Dichlorobenzene	**<0.74**	ug/m3	5.6	0.74	1.83		03/31/22 19:22	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	5.6	0.93	1.83		03/31/22 19:22	541-73-1	
1,4-Dichlorobenzene	**<1.6**	ug/m3	5.6	1.6	1.83		03/31/22 19:22	106-46-7	
Dichlorodifluoromethane	**4.2**	ug/m3	1.8	0.34	1.83		03/31/22 19:22	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.5	0.30	1.83		03/31/22 19:22	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	1.5	0.36	1.83		03/31/22 19:22	107-06-2	
1,1-Dichloroethene	**<0.25**	ug/m3	1.5	0.25	1.83		03/31/22 19:22	75-35-4	
cis-1,2-Dichloroethene	**18.8**	ug/m3	1.5	0.36	1.83		03/31/22 19:22	156-59-2	
trans-1,2-Dichloroethene	**<0.31**	ug/m3	1.5	0.31	1.83		03/31/22 19:22	156-60-5	
1,2-Dichloropropane	**1.7J**	ug/m3	1.7	0.49	1.83		03/31/22 19:22	78-87-5	
cis-1,3-Dichloropropene	**<0.47**	ug/m3	4.2	0.47	1.83		03/31/22 19:22	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/m3	4.2	1.0	1.83		03/31/22 19:22	10061-02-6	
Dichlorotetrafluoroethane	**<0.37**	ug/m3	2.6	0.37	1.83		03/31/22 19:22	76-14-2	
Ethanol	**20.2**	ug/m3	3.5	1.1	1.83		03/31/22 19:22	64-17-5	
Ethyl acetate	**<0.24**	ug/m3	1.3	0.24	1.83		03/31/22 19:22	141-78-6	
Ethylbenzene	**40.1**	ug/m3	1.6	0.57	1.83		03/31/22 19:22	100-41-4	
4-Ethyltoluene	**2.5J**	ug/m3	4.6	0.86	1.83		03/31/22 19:22	622-96-8	
n-Heptane	**<0.33**	ug/m3	1.5	0.33	1.83		03/31/22 19:22	142-82-5	
Hexachloro-1,3-butadiene	**<2.3**	ug/m3	9.9	2.3	1.83		03/31/22 19:22	87-68-3	
n-Hexane	**4.3**	ug/m3	1.3	0.35	1.83		03/31/22 19:22	110-54-3	
2-Hexanone	**<0.81**	ug/m3	7.6	0.81	1.83		03/31/22 19:22	591-78-6	
Methylene Chloride	**<1.1**	ug/m3	6.5	1.1	1.83		03/31/22 19:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.59**	ug/m3	7.6	0.59	1.83		03/31/22 19:22	108-10-1	
Methyl-tert-butyl ether	**<0.23**	ug/m3	6.7	0.23	1.83		03/31/22 19:22	1634-04-4	
Naphthalene	**<4.0**	ug/m3	4.9	4.0	1.83		03/31/22 19:22	91-20-3	
2-Propanol	**<0.93**	ug/m3	4.6	0.93	1.83		03/31/22 19:22	67-63-0	
Propylene	**4.7**	ug/m3	1.6	0.24	1.83		03/31/22 19:22	115-07-1	
Styrene	**<0.70**	ug/m3	1.6	0.70	1.83		03/31/22 19:22	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: CHE80940Q MNSC
Pace Project No.: 10601404

Sample: EP-2 DUP **Lab ID: 10601404003** Collected: 03/18/22 11:38 Received: 03/21/22 10:37 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,1,2,2-Tetrachloroethane	**<0.68**	ug/m3	2.6	0.68	1.83		03/31/22 19:22	79-34-5	
Tetrachloroethene	**845**	ug/m3	6.3	2.7	9.15		04/01/22 13:44	127-18-4	
Tetrahydrofuran	**<0.33**	ug/m3	1.1	0.33	1.83		03/31/22 19:22	109-99-9	
Toluene	**15.8**	ug/m3	1.4	0.45	1.83		03/31/22 19:22	108-88-3	
1,2,4-Trichlorobenzene	**<8.9**	ug/m3	13.8	8.9	1.83		03/31/22 19:22	120-82-1	
1,1,1-Trichloroethane	**<0.34**	ug/m3	2.0	0.34	1.83		03/31/22 19:22	71-55-6	
1,1,2-Trichloroethane	**<0.36**	ug/m3	1.0	0.36	1.83		03/31/22 19:22	79-00-5	
Trichloroethene	**23.7**	ug/m3	1.0	0.36	1.83		03/31/22 19:22	79-01-6	
Trichlorofluoromethane	**138**	ug/m3	2.1	0.43	1.83		03/31/22 19:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.53**	ug/m3	2.9	0.53	1.83		03/31/22 19:22	76-13-1	
1,2,4-Trimethylbenzene	**5.7**	ug/m3	1.8	0.65	1.83		03/31/22 19:22	95-63-6	
1,3,5-Trimethylbenzene	**2.0**	ug/m3	1.8	0.53	1.83		03/31/22 19:22	108-67-8	
Vinyl acetate	**<0.38**	ug/m3	1.3	0.38	1.83		03/31/22 19:22	108-05-4	
Vinyl chloride	**<0.16**	ug/m3	0.48	0.16	1.83		03/31/22 19:22	75-01-4	
m&p-Xylene	**128**	ug/m3	3.2	1.2	1.83		03/31/22 19:22	179601-23-1	
o-Xylene	**25.7**	ug/m3	1.6	0.50	1.83		03/31/22 19:22	95-47-6	

Sample: EP-3 **Lab ID: 10601404004** Collected: 03/18/22 11:00 Received: 03/21/22 10:37 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Acetone	**22.2**	ug/m3	11.1	3.3	1.83		03/31/22 19:56	67-64-1	
Benzene	**0.69**	ug/m3	0.59	0.21	1.83		03/31/22 19:56	71-43-2	
Benzyl chloride	**<1.6**	ug/m3	4.8	1.6	1.83		03/31/22 19:56	100-44-7	
Bromodichloromethane	**<0.43**	ug/m3	2.5	0.43	1.83		03/31/22 19:56	75-27-4	
Bromoform	**<3.0**	ug/m3	9.6	3.0	1.83		03/31/22 19:56	75-25-2	
Bromomethane	**0.34J**	ug/m3	1.4	0.27	1.83		03/31/22 19:56	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.82	0.22	1.83		03/31/22 19:56	106-99-0	
2-Butanone (MEK)	**7.9**	ug/m3	5.5	0.85	1.83		03/31/22 19:56	78-93-3	
Carbon disulfide	**<0.24**	ug/m3	1.2	0.24	1.83		03/31/22 19:56	75-15-0	
Carbon tetrachloride	**<0.51**	ug/m3	2.3	0.51	1.83		03/31/22 19:56	56-23-5	
Chlorobenzene	**<0.28**	ug/m3	1.7	0.28	1.83		03/31/22 19:56	108-90-7	
Chloroethane	**<0.41**	ug/m3	0.98	0.41	1.83		03/31/22 19:56	75-00-3	
Chloroform	**<0.33**	ug/m3	0.91	0.33	1.83		03/31/22 19:56	67-66-3	
Chloromethane	**0.70J**	ug/m3	0.77	0.16	1.83		03/31/22 19:56	74-87-3	
Cyclohexane	**2.3J**	ug/m3	3.2	0.40	1.83		03/31/22 19:56	110-82-7	
Dibromochloromethane	**<0.94**	ug/m3	3.2	0.94	1.83		03/31/22 19:56	124-48-1	
1,2-Dibromoethane (EDB)	**<0.55**	ug/m3	1.4	0.55	1.83		03/31/22 19:56	106-93-4	
1,2-Dichlorobenzene	**<0.74**	ug/m3	5.6	0.74	1.83		03/31/22 19:56	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	5.6	0.93	1.83		03/31/22 19:56	541-73-1	
1,4-Dichlorobenzene	**<1.6**	ug/m3	5.6	1.6	1.83		03/31/22 19:56	106-46-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: CHE80940Q MNSC
Pace Project No.: 10601404

Sample: EP-3 **Lab ID: 10601404004** Collected: 03/18/22 11:00 Received: 03/21/22 10:37 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Dichlorodifluoromethane	**3.1**	ug/m3	1.8	0.34	1.83		03/31/22 19:56	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.5	0.30	1.83		03/31/22 19:56	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	1.5	0.36	1.83		03/31/22 19:56	107-06-2	
1,1-Dichloroethene	**<0.25**	ug/m3	1.5	0.25	1.83		03/31/22 19:56	75-35-4	
cis-1,2-Dichloroethene	**<0.36**	ug/m3	1.5	0.36	1.83		03/31/22 19:56	156-59-2	
trans-1,2-Dichloroethene	**<0.31**	ug/m3	1.5	0.31	1.83		03/31/22 19:56	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/31/22 19:56	78-87-5	
cis-1,3-Dichloropropene	**<0.47**	ug/m3	4.2	0.47	1.83		03/31/22 19:56	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/m3	4.2	1.0	1.83		03/31/22 19:56	10061-02-6	
Dichlorotetrafluoroethane	**<0.37**	ug/m3	2.6	0.37	1.83		03/31/22 19:56	76-14-2	
Ethanol	**16.9**	ug/m3	3.5	1.1	1.83		03/31/22 19:56	64-17-5	
Ethyl acetate	**<0.24**	ug/m3	1.3	0.24	1.83		03/31/22 19:56	141-78-6	
Ethylbenzene	**0.59J**	ug/m3	1.6	0.57	1.83		03/31/22 19:56	100-41-4	
4-Ethyltoluene	**<0.86**	ug/m3	4.6	0.86	1.83		03/31/22 19:56	622-96-8	
n-Heptane	**<0.33**	ug/m3	1.5	0.33	1.83		03/31/22 19:56	142-82-5	
Hexachloro-1,3-butadiene	**<2.3**	ug/m3	9.9	2.3	1.83		03/31/22 19:56	87-68-3	
n-Hexane	**3.5**	ug/m3	1.3	0.35	1.83		03/31/22 19:56	110-54-3	
2-Hexanone	**<0.81**	ug/m3	7.6	0.81	1.83		03/31/22 19:56	591-78-6	
Methylene Chloride	**<1.1**	ug/m3	6.5	1.1	1.83		03/31/22 19:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.59**	ug/m3	7.6	0.59	1.83		03/31/22 19:56	108-10-1	
Methyl-tert-butyl ether	**<0.23**	ug/m3	6.7	0.23	1.83		03/31/22 19:56	1634-04-4	
Naphthalene	**<4.0**	ug/m3	4.9	4.0	1.83		03/31/22 19:56	91-20-3	
2-Propanol	**<0.93**	ug/m3	4.6	0.93	1.83		03/31/22 19:56	67-63-0	
Propylene	**1.5J**	ug/m3	1.6	0.24	1.83		03/31/22 19:56	115-07-1	
Styrene	**<0.70**	ug/m3	1.6	0.70	1.83		03/31/22 19:56	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.68**	ug/m3	2.6	0.68	1.83		03/31/22 19:56	79-34-5	
Tetrachloroethene	**88.7**	ug/m3	1.3	0.53	1.83		03/31/22 19:56	127-18-4	
Tetrahydrofuran	**<0.33**	ug/m3	1.1	0.33	1.83		03/31/22 19:56	109-99-9	
Toluene	**4.1**	ug/m3	1.4	0.45	1.83		03/31/22 19:56	108-88-3	
1,2,4-Trichlorobenzene	**<8.9**	ug/m3	13.8	8.9	1.83		03/31/22 19:56	120-82-1	
1,1,1-Trichloroethane	**<0.34**	ug/m3	2.0	0.34	1.83		03/31/22 19:56	71-55-6	
1,1,2-Trichloroethane	**<0.36**	ug/m3	1.0	0.36	1.83		03/31/22 19:56	79-00-5	
Trichloroethene	**<0.36**	ug/m3	1.0	0.36	1.83		03/31/22 19:56	79-01-6	
Trichlorofluoromethane	**60.0**	ug/m3	2.1	0.43	1.83		03/31/22 19:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.53**	ug/m3	2.9	0.53	1.83		03/31/22 19:56	76-13-1	
1,2,4-Trimethylbenzene	**0.65J**	ug/m3	1.8	0.65	1.83		03/31/22 19:56	95-63-6	
1,3,5-Trimethylbenzene	**<0.53**	ug/m3	1.8	0.53	1.83		03/31/22 19:56	108-67-8	
Vinyl acetate	**<0.38**	ug/m3	1.3	0.38	1.83		03/31/22 19:56	108-05-4	
Vinyl chloride	**<0.16**	ug/m3	0.48	0.16	1.83		03/31/22 19:56	75-01-4	
m&p-Xylene	**1.9J**	ug/m3	3.2	1.2	1.83		03/31/22 19:56	179601-23-1	
o-Xylene	**0.81J**	ug/m3	1.6	0.50	1.83		03/31/22 19:56	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: CHE80940Q MNSC
Pace Project No.: 10601404

QC Batch: 806641
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10601404001, 10601404002, 10601404003, 10601404004

METHOD BLANK: 4281678 Matrix: Air
Associated Lab Samples: 10601404001, 10601404002, 10601404003, 10601404004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.19	1.1	03/31/22 11:25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.37	1.4	03/31/22 11:25	
1,1,2-Trichloroethane	ug/m3	<0.20	0.56	03/31/22 11:25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.29	1.6	03/31/22 11:25	
1,1-Dichloroethane	ug/m3	<0.16	0.82	03/31/22 11:25	
1,1-Dichloroethene	ug/m3	<0.14	0.81	03/31/22 11:25	
1,2,4-Trichlorobenzene	ug/m3	<4.9	7.5	03/31/22 11:25	
1,2,4-Trimethylbenzene	ug/m3	<0.35	1.0	03/31/22 11:25	
1,2-Dibromoethane (EDB)	ug/m3	<0.30	0.78	03/31/22 11:25	
1,2-Dichlorobenzene	ug/m3	<0.40	3.1	03/31/22 11:25	
1,2-Dichloroethane	ug/m3	<0.19	0.82	03/31/22 11:25	
1,2-Dichloropropane	ug/m3	<0.27	0.94	03/31/22 11:25	
1,3,5-Trimethylbenzene	ug/m3	<0.29	1.0	03/31/22 11:25	
1,3-Butadiene	ug/m3	<0.12	0.45	03/31/22 11:25	
1,3-Dichlorobenzene	ug/m3	<0.51	3.1	03/31/22 11:25	
1,4-Dichlorobenzene	ug/m3	<0.88	3.1	03/31/22 11:25	
2-Butanone (MEK)	ug/m3	<0.46	3.0	03/31/22 11:25	
2-Hexanone	ug/m3	<0.44	4.2	03/31/22 11:25	
2-Propanol	ug/m3	<0.51	2.5	03/31/22 11:25	
4-Ethyltoluene	ug/m3	<0.47	2.5	03/31/22 11:25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.32	4.2	03/31/22 11:25	
Acetone	ug/m3	<1.8	6.0	03/31/22 11:25	
Benzene	ug/m3	<0.11	0.32	03/31/22 11:25	
Benzyl chloride	ug/m3	<0.89	2.6	03/31/22 11:25	
Bromodichloromethane	ug/m3	<0.24	1.4	03/31/22 11:25	
Bromoform	ug/m3	<1.6	5.2	03/31/22 11:25	
Bromomethane	ug/m3	<0.15	0.79	03/31/22 11:25	
Carbon disulfide	ug/m3	<0.13	0.63	03/31/22 11:25	
Carbon tetrachloride	ug/m3	<0.28	1.3	03/31/22 11:25	
Chlorobenzene	ug/m3	<0.16	0.94	03/31/22 11:25	
Chloroethane	ug/m3	<0.22	0.54	03/31/22 11:25	
Chloroform	ug/m3	<0.18	0.50	03/31/22 11:25	
Chloromethane	ug/m3	<0.085	0.42	03/31/22 11:25	
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	03/31/22 11:25	
cis-1,3-Dichloropropene	ug/m3	<0.26	2.3	03/31/22 11:25	
Cyclohexane	ug/m3	<0.22	1.8	03/31/22 11:25	
Dibromochloromethane	ug/m3	<0.52	1.7	03/31/22 11:25	
Dichlorodifluoromethane	ug/m3	<0.19	1.0	03/31/22 11:25	
Dichlorotetrafluoroethane	ug/m3	<0.20	1.4	03/31/22 11:25	
Ethanol	ug/m3	<0.59	1.9	03/31/22 11:25	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: CHE80940Q MNSC
Pace Project No.: 10601404

METHOD BLANK: 4281678 Matrix: Air
Associated Lab Samples: 10601404001, 10601404002, 10601404003, 10601404004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.13	0.73	03/31/22 11:25	
Ethylbenzene	ug/m3	<0.31	0.88	03/31/22 11:25	
Hexachloro-1,3-butadiene	ug/m3	<1.2	5.4	03/31/22 11:25	
m&p-Xylene	ug/m3	<0.64	1.8	03/31/22 11:25	
Methyl-tert-butyl ether	ug/m3	<0.13	3.7	03/31/22 11:25	
Methylene Chloride	ug/m3	<0.59	3.5	03/31/22 11:25	
n-Heptane	ug/m3	<0.18	0.83	03/31/22 11:25	
n-Hexane	ug/m3	<0.19	0.72	03/31/22 11:25	
Naphthalene	ug/m3	<2.2	2.7	03/31/22 11:25	
o-Xylene	ug/m3	<0.27	0.88	03/31/22 11:25	
Propylene	ug/m3	<0.13	0.88	03/31/22 11:25	
Styrene	ug/m3	<0.38	0.87	03/31/22 11:25	
Tetrachloroethene	ug/m3	<0.29	0.69	03/31/22 11:25	
Tetrahydrofuran	ug/m3	<0.18	0.60	03/31/22 11:25	
Toluene	ug/m3	<0.24	0.77	03/31/22 11:25	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	03/31/22 11:25	
trans-1,3-Dichloropropene	ug/m3	<0.54	2.3	03/31/22 11:25	
Trichloroethene	ug/m3	<0.20	0.55	03/31/22 11:25	
Trichlorofluoromethane	ug/m3	<0.23	1.1	03/31/22 11:25	
Vinyl acetate	ug/m3	<0.21	0.72	03/31/22 11:25	
Vinyl chloride	ug/m3	<0.087	0.26	03/31/22 11:25	

LABORATORY CONTROL SAMPLE: 4281679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	61.9	104	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	75.4	71.1	94	70-132	
1,1,2-Trichloroethane	ug/m3	59.6	57.2	96	70-131	
1,1,2-Trichlorotrifluoroethane	ug/m3	83.6	87.6	105	70-130	
1,1-Dichloroethane	ug/m3	43.9	41.5	94	70-130	
1,1-Dichloroethene	ug/m3	43.5	43.2	99	70-130	
1,2,4-Trichlorobenzene	ug/m3	177	171	97	70-130	
1,2,4-Trimethylbenzene	ug/m3	54	65.6	121	70-137	
1,2-Dibromoethane (EDB)	ug/m3	82.5	83.1	101	70-137	
1,2-Dichlorobenzene	ug/m3	66.2	67.5	102	70-131	
1,2-Dichloroethane	ug/m3	44.4	45.9	103	70-134	
1,2-Dichloropropane	ug/m3	50.6	49.4	98	70-130	
1,3,5-Trimethylbenzene	ug/m3	53.7	58.5	109	70-131	
1,3-Butadiene	ug/m3	24.2	20.6	85	70-139	
1,3-Dichlorobenzene	ug/m3	66.3	65.8	99	70-134	
1,4-Dichlorobenzene	ug/m3	66.3	68.1	103	70-131	
2-Butanone (MEK)	ug/m3	32.3	32.8	102	70-133	
2-Hexanone	ug/m3	44.8	38.4	86	70-136	
2-Propanol	ug/m3	149	129	87	65-133	

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

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: CHE80940Q MNSC
Pace Project No.: 10601404

LABORATORY CONTROL SAMPLE: 4281679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	53.7	51.3	96	70-130	
4-Methyl-2-pentanone (MIBK)	ug/m3	44.9	43.3	96	70-130	
Acetone	ug/m3	128	114	89	60-134	
Benzene	ug/m3	34.8	34.5	99	70-130	
Benzyl chloride	ug/m3	57.6	54.5	95	70-130	
Bromodichloromethane	ug/m3	73.1	79.2	108	70-130	
Bromoform	ug/m3	114	116	101	70-138	
Bromomethane	ug/m3	42.5	39.8	94	68-131	
Carbon disulfide	ug/m3	34.4	33.0	96	70-130	
Carbon tetrachloride	ug/m3	69.4	74.4	107	70-132	
Chlorobenzene	ug/m3	50.2	55.9	111	70-130	
Chloroethane	ug/m3	28.8	24.3	84	70-134	
Chloroform	ug/m3	52.4	55.6	106	70-130	
Chloromethane	ug/m3	22.6	20.7	92	68-131	
cis-1,2-Dichloroethene	ug/m3	43.4	44.2	102	70-136	
cis-1,3-Dichloropropene	ug/m3	49.4	50.3	102	70-130	
Cyclohexane	ug/m3	37.4	33.0	88	70-131	
Dibromochloromethane	ug/m3	93.2	102	109	70-134	
Dichlorodifluoromethane	ug/m3	54.6	55.3	101	70-130	
Dichlorotetrafluoroethane	ug/m3	71.2	67.4	95	70-130	
Ethanol	ug/m3	124	110	89	55-145	
Ethyl acetate	ug/m3	38.9	34.2	88	70-135	
Ethylbenzene	ug/m3	47.8	50.3	105	70-133	
Hexachloro-1,3-butadiene	ug/m3	133	133	100	70-132	
m&p-Xylene	ug/m3	95.4	100	105	70-134	
Methyl-tert-butyl ether	ug/m3	39.6	37.2	94	70-131	
Methylene Chloride	ug/m3	190	180	95	65-132	
n-Heptane	ug/m3	44.6	39.4	88	70-130	
n-Hexane	ug/m3	38	35.6	94	70-132	
Naphthalene	ug/m3	65.2	60.6	93	70-130	
o-Xylene	ug/m3	47.6	50.6	106	70-134	
Propylene	ug/m3	18.9	16.8	89	69-133	
Styrene	ug/m3	47	48.0	102	70-135	
Tetrachloroethene	ug/m3	73.4	81.4	111	70-134	
Tetrahydrofuran	ug/m3	32.1	29.7	93	70-140	
Toluene	ug/m3	41.6	43.5	105	70-136	
trans-1,2-Dichloroethene	ug/m3	43.6	40.2	92	70-134	
trans-1,3-Dichloropropene	ug/m3	50.5	46.9	93	70-131	
Trichloroethene	ug/m3	58.4	63.2	108	70-134	
Trichlorofluoromethane	ug/m3	62	65.2	105	63-130	
Vinyl acetate	ug/m3	46.4	38.6	83	70-139	
Vinyl chloride	ug/m3	28	25.0	89	70-132	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: CHE80940Q MNSC
Pace Project No.: 10601404

SAMPLE DUPLICATE: 4282988

Parameter	Units	10602605002 Result	Dup Result	RPD	Max 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	<0.28	<0.28		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.42	<0.42		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	<7.0	<7.0		25	
1,2,4-Trimethylbenzene	ug/m3	<0.51	<0.51		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.43	<0.43		25	
1,2-Dichlorobenzene	ug/m3	<0.58	<0.58		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	<0.17	<0.17		25	
1,3-Dichlorobenzene	ug/m3	<0.73	<0.73		25	
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3		25	
2-Butanone (MEK)	ug/m3	13.0	12.7	2	25	
2-Hexanone	ug/m3	<0.64	<0.64		25	
2-Propanol	ug/m3	5.9	5.8	1	25	
4-Ethyltoluene	ug/m3	<0.68	<0.68		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.46	<0.46		25	
Acetone	ug/m3	30.9	30.7	1	25	
Benzene	ug/m3	<0.16	<0.16		25	
Benzyl chloride	ug/m3	<1.3	<1.3		25	
Bromodichloromethane	ug/m3	<0.34	<0.34		25	
Bromoform	ug/m3	<2.3	<2.3		25	
Bromomethane	ug/m3	<0.22	<0.22		25	
Carbon disulfide	ug/m3	<0.19	<0.19		25	
Carbon tetrachloride	ug/m3	<0.40	<0.40		25	
Chlorobenzene	ug/m3	<0.22	<0.22		25	
Chloroethane	ug/m3	<0.32	<0.32		25	
Chloroform	ug/m3	<0.26	<0.26		25	
Chloromethane	ug/m3	1.1	1.1	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	<0.74	<0.74		25	
Dichlorodifluoromethane	ug/m3	3.1	3.0	5	25	
Dichlorotetrafluoroethane	ug/m3	<0.29	<0.29		25	
Ethanol	ug/m3	1120	1090	3	25	E
Ethyl acetate	ug/m3	2.4	2.2	10	25	
Ethylbenzene	ug/m3	0.74J	0.75J		25	
Hexachloro-1,3-butadiene	ug/m3	<1.8	<1.8		25	
m&p-Xylene	ug/m3	3.6	3.4	6	25	
Methyl-tert-butyl ether	ug/m3	<0.18	<0.18		25	
Methylene Chloride	ug/m3	<0.85	<0.85		25	
n-Heptane	ug/m3	<0.26	<0.26		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: CHE80940Q MNSC
Pace Project No.: 10601404

SAMPLE DUPLICATE: 4282988

Parameter	Units	10602605002 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.7	<0.28		25	
Naphthalene	ug/m3	<3.1	<3.1		25	
o-Xylene	ug/m3	0.95J	0.89J		25	
Propylene	ug/m3	2.8	2.7	1	25	
Styrene	ug/m3	<0.55	<0.55		25	
Tetrachloroethene	ug/m3	<0.42	<0.42		25	
Tetrahydrofuran	ug/m3	5.2	5.1	3	25	
Toluene	ug/m3	0.60J	0.54J		25	
trans-1,2-Dichloroethene	ug/m3	<0.24	<0.24		25	
trans-1,3-Dichloropropene	ug/m3	<0.78	<0.78		25	
Trichloroethene	ug/m3	<0.28	<0.28		25	
Trichlorofluoromethane	ug/m3	1.5J	1.6J		25	
Vinyl acetate	ug/m3	<0.30	<0.30		25	
Vinyl chloride	ug/m3	<0.12	<0.12		25	

SAMPLE DUPLICATE: 4282990

Parameter	Units	10601868007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.26		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.52		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.27		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.41J		25	
1,1-Dichloroethane	ug/m3	ND	<0.23		25	
1,1-Dichloroethene	ug/m3	ND	<0.19		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<6.8		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<0.49		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.42		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.56		25	
1,2-Dichloroethane	ug/m3	ND	<0.27		25	
1,2-Dichloropropane	ug/m3	ND	<0.37		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.40		25	
1,3-Butadiene	ug/m3	ND	<0.17		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.71		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.2		25	
2-Butanone (MEK)	ug/m3	ND	<0.65		25	
2-Hexanone	ug/m3	ND	<0.61		25	
2-Propanol	ug/m3	ND	2.8J		25	
4-Ethyltoluene	ug/m3	ND	<0.66		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.45		25	
Acetone	ug/m3	ND	5.0J		25	
Benzene	ug/m3	ND	<0.16		25	
Benzyl chloride	ug/m3	ND	<1.2		25	
Bromodichloromethane	ug/m3	ND	<0.33		25	
Bromoform	ug/m3	ND	<2.3		25	
Bromomethane	ug/m3	ND	<0.21		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: CHE80940Q MNSC
Pace Project No.: 10601404

SAMPLE DUPLICATE: 4282990

Parameter	Units	10601868007 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.18		25	
Carbon tetrachloride	ug/m3	ND	<0.39		25	
Chlorobenzene	ug/m3	ND	<0.22		25	
Chloroethane	ug/m3	ND	<0.31		25	
Chloroform	ug/m3	ND	<0.25		25	
Chloromethane	ug/m3	0.85	0.91	7	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.27		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.35		25	
Cyclohexane	ug/m3	ND	<0.31		25	
Dibromochloromethane	ug/m3	ND	<0.72		25	
Dichlorodifluoromethane	ug/m3	2.6	2.6	0	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.28		25	
Ethanol	ug/m3	10.1	9.8	2	25	
Ethyl acetate	ug/m3	ND	<0.18		25	
Ethylbenzene	ug/m3	ND	<0.43		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<1.7		25	
m&p-Xylene	ug/m3	ND	<0.89		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.18		25	
Methylene Chloride	ug/m3	ND	<0.82		25	
n-Heptane	ug/m3	ND	<0.25		25	
n-Hexane	ug/m3	ND	<0.27		25	
Naphthalene	ug/m3	ND	<3.0		25	
o-Xylene	ug/m3	ND	<0.38		25	
Propylene	ug/m3	ND	0.83J		25	
Styrene	ug/m3	ND	<0.54		25	
Tetrachloroethene	ug/m3	ND	<0.41		25	
Tetrahydrofuran	ug/m3	ND	<0.25		25	
Toluene	ug/m3	ND	0.57J		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.23		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.76		25	
Trichloroethene	ug/m3	ND	<0.27		25	
Trichlorofluoromethane	ug/m3	ND	1.2J		25	
Vinyl acetate	ug/m3	ND	<0.29		25	
Vinyl chloride	ug/m3	ND	<0.12		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: CHE80940Q MNSC
Pace Project No.: 10601404

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.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHE80940Q MNSC
Pace Project No.: 10601404

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10601404001	**EP-1**	TO-15	806641		
10601404002	**EP-2**	TO-15	806641		
10601404003	**EP-2 DUP**	TO-15	806641		
10601404004	**EP-3**	TO-15	806641		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

52161

Page: 1 of 1

Section A Required Client Information:

Company: Geosyntec
Address: 10600 N. Port Washington Rd Ste 100 Mequon, WI 53092
Email To: dzob@geosyntec.com
Phone: 262-496-6103 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Dave Zob
Copy To:
Purchase Order No.:
Project Name: MNSC
Project Number: CME809400

Section C Invoice Information:

Attention: Frank Dombrowski
Company Name: We Energies
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 37426 #3

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level: II. ___ III. ___ IV. ___ Other ___

'Section D Required Client Information

AIR SAMPLE ID
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

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: 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)	Pace Lab ID
1	EP-1	1LC		3/18/22	1112			-28	4	2273	2273										
2	EP-2				1138			-27	4	2647	2647										
3	EP-2DUP				1138			-29	4	2499	2499										
4	EP-3				1100			-29	4	2229	23										
5	EP-1	1LC		3/18/22	1112			-28	4	2273	2329						X				001
6	EP-2				1138			-27	4	2647	0588						X				002
7	EP-2DUP				1138			-29	4	2499	0628						X				003
8	EP-3				1100			-29	4	2229	0772						X				004
9																					
10																					
11																					
12																					

MT 3/21/22

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	3/18/22	1300		3/21/22	13:00 10:37

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
—	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

PRINT Name of SAMPLER: Dave Zob
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 03/18/22

WO# : 10601404

10601404

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - Air**	Document Revised: 13Oct2021 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0113 Rev.01**	Pace Analytical Services - **Minneapolis**

Air Sample Condition Upon Receipt **Client Name:** Geosyntec **Project #:**

WO# : 10601404
PM: MR2 Due Date: 03/28/22
CLIENT: Geosyntec WI

Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 9753 8449 1293 ☐ See Exception

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No

Seals Intact? ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: _____

Date & Initials of Person Examining Contents: 3-21-22 MT

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

Gauge #: ☐ 10AIR26 ☐ 10AIR34 ☐ 10AIR35 ☒ 10AIR17 ☐ 10AIR47 ☐ 10AIR48

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
EP-1	2273	2329	-3	-10					
" -2	2647	588	-1.5						
" DUP	2499	628	-2.5						
EP-3	2229	772	-2.5						

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolynne Trout **Date:** 3/23/22

Note: *Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*

ATTACHMENT 3

Table 1 (Emissions Calculations Summary)

Table 1

Emmissions Calculations Summary

Vapor Mitigation System (Sub-Membrane Depressurization System)

Metro North Service Center (MNSC)

3100 West North Avenue

Milwaukee, Wisconsin

Number of Emissions Stacks	3 (EP-1, EP-2 and EP-3)
Approximate Height of Emissions Stacks	17 ft above ground, 5 ft above roof
Primary Air Contaminant	Tetrachloroethene (PCE)

EP-1, 2 and 3		EP-1 Emissions						EP-2 Emissions						EP-3 Emissions						Total Emissions = EP-1 + EP-2 + EP-3			NR 445 Threshold (emissions from stacks < 25 ft)	
Pipe Diameter	Area of Pipe (1)	Flow Velocity	Vacuum	Flow Rate (2)	Detected Analytes (VOCs)	Conc.	Mass Flux (3)	Flow Velocity	Vacuum	Flow Rate (2)	Detected Analytes (VOCs)	Conc. (4)	Mass Flux (3)	Flow Velocity	Vacuum	Flow Rate (2)	Detected Analytes (VOCs)	Conc.	Mass Flux (3)	Detected Analytes (VOCs)	Total Mass Flux			
in	ft^2	ft/min	in-H_2O	scfm		ug/m^3	lb/hr	ft/min	in-H_2O	scfm		ug/m^3	lb/hr	ft/min	in-H_2O	scfm		ug/m^3	lb/hr		lb/hr	lb/yr	lb/hr	lb/yr
4	**0.0873**	**423**	**1**	**36.8**	**Tetrachloroethene**	**426**	**0.00006**	**1500**	**7.6**	**128.5**	**Tetrachloroethene**	**845**	**0.00041**	**253**	**1**	**22.0**	**Tetrachloroethene**	**88.7**	**0.00001**	**Tetrachloroethene**	**0.00047**	**4.13790**	9.11	301
4	0.0873	423	1	36.8	Acetone	18.9	0.000003	1500	7.6	128.5	Acetone	16	0.00001	253	1	22.0	Acetone	22.2	0.000002	Acetone	0.00001	0.10625	--	--
4	0.0873	423	1	36.8	Benzene	ND	0	1500	7.6	128.5	Benzene	0.78	0.0000004	253	1	22.0	Benzene	0.69	0.0000001	Benzene	0.00000	0.00378	--	228
4	0.0873	423	1	36.8	Bromomethane	ND	0	1500	7.6	128.5	Bromomethane	ND	0	253	1	22.0	Bromomethane	0.34	0.00000003	Bromomethane	0.00000003	0.00025	--	--
4	0.0873	423	1	36.8	2-Butanone (MEK)	6.2	0.000001	1500	7.6	128.5	2-Butanone (MEK)	3.7	0.000002	253	1	22.0	2-Butanone (MEK)	7.9	0.000001	2-Butanone (MEK)	0.000003	0.02878	--	--
4	0.0873	423	1	36.8	Carbon disulfide	6.7	0.000001	1500	7.6	128.5	Carbon disulfide	4.7	0.000002	253	1	22.0	Carbon disulfide	ND	0	Carbon disulfide	0.000003	0.02789	1.67	124,381
4	0.0873	423	1	36.8	Chloroform	ND	0	1500	7.6	128.5	Chloroform	0.55	0.0000003	253	1	22.0	Chloroform	ND	0	Chloroform	0.0000003	0.00232	2.62	77.3
4	0.0873	423	1	36.8	Chloromethane	ND	0	1500	7.6	128.5	Chloromethane	ND	0	253	1	22.0	Chloromethane	0.70	0.0000001	Chloromethane	0.000000	0.00051	5.5	--
4	0.0873	423	1	36.8	Cyclohexane	2.1	0.0000003	1500	7.6	128.5	Cyclohexane	2.8	0.000001	253	1	22.0	Cyclohexane	2.3	0.0000002	Cyclohexane	0.000002	0.01599	--	--
4	0.0873	423	1	36.8	Dichlorodifluoromethane	25.4	0.000004	1500	7.6	128.5	Dichlorodifluoromethane	4.2	0.000002	253	1	22.0	Dichlorodifluoromethane	3.1	0.0000003	Dichlorodifluoromethane	0.00001	0.05060	--	--
4	0.0873	423	1	36.8	cis-1,2-Dichloroethene	3.1	0.0000004	1500	7.6	128.5	cis-1,2-Dichloroethene	18.8	0.000009	253	1	22.0	cis-1,2-Dichloroethene	ND	0	cis-1,2-Dichloroethene	0.00001	0.08294	42.6	--
4	0.0873	423	1	36.8	1,2-Dichloropropane	ND	0	1500	7.6	128.5	1,2-Dichloropropane	1.7	0.000001	253	1	22.0	1,2-Dichloropropane	ND	0	1,2-Dichloropropane	0.000001	0.00716	--	--
4	0.0873	423	1	36.8	Ethanol	11.9	0.000002	1500	7.6	128.5	Ethanol	25.9	0.00001	253	1	22.0	Ethanol	16.9	0.000001	Ethanol	0.00002	0.13567	--	--
4	0.0873	423	1	36.8	Ethylbenzene	ND	0	1500	7.6	128.5	Ethylbenzene	40.1	0.00002	253	1	22.0	Ethylbenzene	0.59	0.00000005	Ethylbenzene	0.00002	0.16934	23.3	177,688
4	0.0873	423	1	36.8	4-Ethyltoluene	ND	0	1500	7.6	128.5	4-Ethyltoluene	2.5	0.000001	253	1	22.0	4-Ethyltoluene	ND	0	4-Ethyltoluene	0.000001	0.01053	--	--
4	0.0873	423	1	36.8	n-Hexane	ND	0	1500	7.6	128.5	n-Hexane	4.3	0.000002	253	1	22.0	n-Hexane	3.5	0.0000003	n-Hexane	0.000002	0.02064	9.47	35,538
4	0.0873	423	1	36.8	MIBK	2.0	0.0000003	1500	7.6	128.5	MIBK	ND	0	253	1	22.0	MIBK	ND	0	MIBK	0.0000003	0.00242	11	--
4	0.0873	423	1	36.8	Propylene	1.9	0.0000003	1500	7.6	128.5	Propylene	4.9	0.000002	253	1	22.0	Propylene	1.5	0.0000001	Propylene	0.000003	0.02402	--	--
4	0.0873	423	1	36.8	Tetrahydrofuran	6.4	0.000001	1500	7.6	128.5	Tetrahydrofuran	ND	0	253	1	22.0	Tetrahydrofuran	ND	0	Tetrahydrofuran	0.000001	0.00773	31.7	--
4	0.0873	423	1	36.8	Toluene	3.7	0.000001	1500	7.6	128.5	Toluene	16.6	0.000008	253	1	22.0	Toluene	4.1	0.0000003	Toluene	0.00001	0.07735	10.1	71,075
4	0.0873	423	1	36.8	Trichloroethene	9.9	0.000001	1500	7.6	128.5	Trichloroethene	23.7	0.000011	253	1	22.0	Trichloroethene	ND	0	Trichloroethene	0.00001	0.11179	14.4	888
4	0.0873	423	1	36.8	Trichlorofluoromethane	228	0.00003	1500	7.6	128.5	Trichlorofluoromethane	138	0.000066	253	1	22.0	Trichlorofluoromethane	60	0.000005	Trichlorofluoromethane	0.00010	0.89995	--	--
4	0.0873	423	1	36.8	1,2,4-Trimethylbenzene	ND	0	1500	7.6	128.5	1,2,4-Trimethylbenzene	5.7	0.000003	253	1	22.0	1,2,4-Trimethylbenzene	0.65	0.0000001	1,2,4-Trimethylbenzene	0.000003	0.02448	6.6	--
4	0.0873	423	1	36.8	1,3,5-Trimethylbenzene	ND	0	1500	7.6	128.5	1,3,5-Trimethylbenzene	2.0	0.000001	253	1	22.0	1,3,5-Trimethylbenzene	ND	0	1,3,5-Trimethylbenzene	0.000001	0.00842		
4	0.0873	423	1	36.8	m&p-Xylene	1.30	0.0000002	1500	7.6	128.5	m&p-Xylene	128	0.00006	253	1	22.0	m&p-Xylene	1.9	0.0000002	m&p-Xylene	0.00006	0.54212	23.3	--
4	0.0873	423	1	36.8	o-Xylene	ND	0	1500	7.6	128.5	o-Xylene	25.7	0.00001	253	1	22.0	o-Xylene	0.81	0.0000001	o-Xylene	0.00001	0.10884		
																				Total VOC Emissions	**0.00075**	**6.61**	5.7 (5)	--

Notes:

(1) Area of Pipe (ft^2) = pipe $radius^2$*Pi

(2) Flow Rate (scfm) = measured Flow Velocity (ft/min) x Area of Pipe (ft^2) x [(standard pressure - measured pipe vacuum)/standard pressue]

(3) Mass Flux (lb/hr) = Flow Rate (scfm) x concentration (ug/m^3) x 0.0283 m^3/ft^3 x 60 min/hr x 1 lb/453,592,370 ug

(4) A duplicate sample was collected from EP-2 (EP-2 DUP). The concentrations presented are the highest detected of these two duplicate samples.

(5) NR 406.04 exemption criteria

-- - not established

conc. - concentration

ft - feet

ft/min - feet per minute

in-H_2O = inches of water

lb/hr - pounds per hour

lb/yr - pounds per year

MIBK - 4-Methyl-2-pentanone

ND - not detected

r - radius of pipe

scfm - standard cubic feet per minute

standard pressure - 406.78 in-H_2O

ug/m^3 - micrograms per cubic meter

VOCs - volatile organic compounds