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#### **LETTER OF TRANSMITTAL**

DATE	:	April 5, 2023				
ТО	:	Wisconsin De 1027 West St	Mrs. Jennifer Meyer Wisconsin Department of Natural Resources 1027 West St. Paul Ave. Milwaukee, WI 53233			
FROM	:	Robert Reine	ke, PE   Senior Engineer			
SUBJECT	:	<ul><li>Buildings 6,</li><li>3212 W. Cent</li></ul>	Additional Testing for Commissioning of Community Within the Corridor – West Block – Buildings 6, 7, 8A, and 8B 3212 W. Center St., 2727 N. 32nd St., and 2758 N. 33rd St., Milwaukee, WI 53210 BRRTS #: 02-41-587376, FID #: 341333190			
COPY TO	:	File				
We are:  ☑ Attaching		⊠ Submit	ting As Requested			
Copies	Da	ate	Description			
1	_	/05/2023	CWC West Block Additional Commissioning Test Results			
Transmitted Fo	r Yo	ur:				
<ul><li>☑ Information/Records</li><li>☐ Action</li></ul>		rds $\square$	□ Review       □ Approval         □ Revision/Resubmittal       □ Distribution			
<b>Remarks:</b> Please find attached the results of testing of five passive air samples in accordance with the plan submitted on February 17, 2023. Three samples were no detect for TCE. Two samples detected TCE. Sample IA-8A-01B detected TCE at 0.21 ug/m <sup>3</sup> and sample IA detected TCE at 0.24 ug/m <sup>3</sup> . No VALs were exceeded.						

CORPORATE HEADQUARTERS | 3636 North 124th Street | Wauwatosa, WI 53222 | 262.821.1171 office | 262.821.1174 fax | ksinghengineering.com

Should you have any questions regarding this submittal or require any additional information, please feel free to contact me via email at rreineke@ksinghengineering.com or telephone at (262) 821-1171, ext.



2/24/2023 Mr. Robert Reineke K Singh & Associates 3636 N 124th St

Wauwatosa WI 53222

Project Name: CWC-West Block

Project #: 40443A Workorder #: 2302471

Dear Mr. Robert Reineke

The following report includes the data for the above referenced project for sample(s) received on 2/21/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. RAD130/SKC are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager



#### **WORK ORDER #: 2302471**

#### Work Order Summary

CLIENT: Mr. Robert Reineke BILL TO: Mr. Robert Reineke

K Singh & Associates 3636 N 124th St Wauwatosa, WI 53222

3636 N 124th St Wauwatosa, WI 53222

K Singh & Associates

PHONE: P.O.#

FAX: PROJECT # 40443A CWC-West Block

**DATE RECEIVED:** 02/21/2023 **CONTACT:** Jade White **DATE COMPLETED:** 02/24/2023

FRACTION #	NAME	TEST
01A	PG654 (IA-7-01A)	Passive S.E. RAD130/SKC
02A	PG653 (IA-8B-01B)	Passive S.E. RAD130/SKC
03A	PG652 (IA-8A-01B)	Passive S.E. RAD130/SKC
04A	PG651 (IA-6-01A)	Passive S.E. RAD130/SKC
05A	PG643 (OA-6/7/8A/8B)	Passive S.E. RAD130/SKC
06A	Lab Blank	Passive S.E. RAD130/SKC
07A	CCV	Passive S.E. RAD130/SKC
08A	LCS	Passive S.E. RAD130/SKC
08AA	LCSD	Passive S.E. RAD130/SKC

	Heide Tayes	
CERTIFIED BY:	00	DATE: $\frac{02/24/23}{}$

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005-017, Effective date: 10/18/2022, Expiration date: 10/17/2023.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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#### LABORATORY NARRATIVE RAD130 Passive SE by Mod EPA TO-17 K Singh & Associates Workorder# 2302471

Five Radiello 130 (Solvent) samples were received on February 21, 2023. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	TO-17	ATL Modifications
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

#### **Receiving Notes**

There were no receiving discrepancies.

#### **Analytical Notes**

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 10140 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

#### **Definition of Data Qualifying Flags**

Ten qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
  - J Estimated value.
  - E Exceeds instrument calibration range.
  - S Saturated peak.
  - Q Exceeds quality control limits.
  - U Compound analyzed for but not detected above the reporting limit.
  - UJ- Non-detected compound associated with low bias in the CCV
  - N The identification is based on presumptive evidence.
  - C Estimated concentration due to calculated sampling rate
  - CN See case narrative explanation.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



# **Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS**

Client Sample ID: PG654 (IA-7-01A)

Lab ID#: 2302471-01A

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
trans-1,2-Dichloroethene	0.20	0.33	0.60 C	0.99 C

Client Sample ID: PG653 (IA-8B-01B)

Lab ID#: 2302471-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	(ug/m3)
Trichloroethene	0.10	0.14	0.17	0.24
trans-1,2-Dichloroethene	0.20	0.33	0.40 C	0.65 C

Client Sample ID: PG652 (IA-8A-01B)

Lab ID#: 2302471-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.14	0.15	0.21
Tetrachloroethene	0.10	0.17	0.20	0.33
trans-1,2-Dichloroethene	0.20	0.33	0.31 C	0.51 C

Client Sample ID: PG651 (IA-6-01A)

Lab ID#: 2302471-04A

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
trans-1,2-Dichloroethene	0.20	0.33	0.20 C	0.34 C

Client Sample ID: PG643 (OA-6/7/8A/8B)

Lab ID#: 2302471-05A
No Detections Were Found.



## Client Sample ID: PG654 (IA-7-01A) Lab ID#: 2302471-01A

#### **VOCS BY PASSIVE SAMPLER - GC/MS**

File Name:	1802222sim	Date of Collection: 2/15/23 10:15:00 AM
Dil. Factor:	1.00	Date of Analysis: 2/22/23 03:48 PM
		Date of Extraction: 2/22/23

_	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	0.60 C	0.99 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F, duration time = 10125 minutes.

_		Method
Surrogates	%Recovery	Limits
Toluene-d8	107	70-130



#### Client Sample ID: PG653 (IA-8B-01B) Lab ID#: 2302471-02A

#### **VOCS BY PASSIVE SAMPLER - GC/MS**

File Name:	18022223sim	Date of Collection: 2/15/23 10:45:00 AM
Dil. Factor:	1.00	Date of Analysis: 2/22/23 04:15 PM
		Date of Extraction: 2/22/23

Rpt. Limit Rpt. Limit Amount Amount Compound (ug/m3) (ug/m3) (ug) (ug) 0.10 0.14 0.17 0.24 Trichloroethene 0.10 Not Detected Not Detected Tetrachloroethene 0.17 0.10 0.16 Not Detected C Not Detected C cis-1,2-Dichloroethene trans-1,2-Dichloroethene 0.20 0.33 0.40 C 0.65 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F, duration time = 10140 minutes.

		Method
Surrogates	%Recovery	Limits
Toluene-d8	108	70-130



## Client Sample ID: PG652 (IA-8A-01B) Lab ID#: 2302471-03A

#### **VOCS BY PASSIVE SAMPLER - GC/MS**

File Name:	18022224sim	Date of Collection: 2/15/23 10:30:00 AM
Dil. Factor:	1.00	Date of Analysis: 2/22/23 04:42 PM
		Date of Extraction: 2/22/23

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Trichloroethene	0.10	0.14	0.15	0.21
Tetrachloroethene	0.10	0.17	0.20	0.33
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	0.31 C	0.51 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F, duration time = 10120 minutes.

		Method
Surrogates	%Recovery	Limits
Toluene-d8	105	70-130



#### Client Sample ID: PG651 (IA-6-01A) Lab ID#: 2302471-04A

#### **VOCS BY PASSIVE SAMPLER - GC/MS**

File Name:	18022225sim	Date of Collection: 2/15/23 10:20:00 AM
Dil. Factor:	1.00	Date of Analysis: 2/22/23 05:09 PM
		Date of Extraction: 2/22/23

0	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	0.20 C	0.34 C

C = Estimated concentration due to calculated sampling rate.

 $Temperature = 77.0F \ , \ duration \ time = 10055 \ minutes.$ 

		Method
Surrogates	%Recovery	Limits
Toluene-d8	106	70-130



### Client Sample ID: PG643 (OA-6/7/8A/8B)

#### Lab ID#: 2302471-05A

#### **VOCS BY PASSIVE SAMPLER - GC/MS**

File Name:	18022226sim	Date of Collection: 2/15/23 11:30:00 AM
Dil. Factor:	1.00	Date of Analysis: 2/22/23 05:36 PM
		Date of Extraction: 2/22/23

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ug)	(ug/m3)	(ug)	(ug/m3)
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

 $Temperature = 77.0F \ , \ duration \ time = 10110 \ minutes.$ 

_		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	107	70-130	



#### Client Sample ID: Lab Blank Lab ID#: 2302471-06A

#### **VOCS BY PASSIVE SAMPLER - GC/MS**

File Name:	18022205sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/22/23 07:59 AM

Date of Extraction: 2/22/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F, duration time = 10140 minutes.

		Method
Surrogates	%Recovery	Limits
Toluene-d8	106	70-130



#### Client Sample ID: CCV Lab ID#: 2302471-07A

#### **VOCS BY PASSIVE SAMPLER - GC/MS**

File Name:	18022202sim	Date of Collection: NA

Dil. Factor: 1.00 Date of Analysis: 2/22/23 06:37 AM

Date of Extraction: NA

Compound	%Recovery	
Trichloroethene	103	
Tetrachloroethene	106	
cis-1,2-Dichloroethene	95	
trans-1,2-Dichloroethene	96	

**Container Type: NA - Not Applicable** 

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130



#### Client Sample ID: LCS Lab ID#: 2302471-08A

#### **VOCS BY PASSIVE SAMPLER - GC/MS**

File Name: 18022203sim Date of Collection: NA

Dil. Factor: 1.00 Date of Analysis: 2/22/23 07:06 AM

Date of Extraction: 2/22/23

	Method
%Recovery	Limits
85	70-130
84	70-130
88	70-130
89	70-130
	Method
%Recovery	Limits
103	70-130
	85 84 88 89 <b>%Recovery</b>



#### **Client Sample ID: LCSD** Lab ID#: 2302471-08AA

#### **VOCS BY PASSIVE SAMPLER - GC/MS**

Dil. Factor: Date of Analysis: 2/22/23 07:33 AM 1.00

Date of Extraction: 2/22/23

Compound	%Recovery	Method Limits
Trichloroethene	83	70-130
Tetrachloroethene	84	70-130
cis-1,2-Dichloroethene	87	70-130
trans-1,2-Dichloroethene	89	70-130
Container Type: NA - Not Applicable		
		Method
Surrogates	%Recovery	Limits

# eurofins e

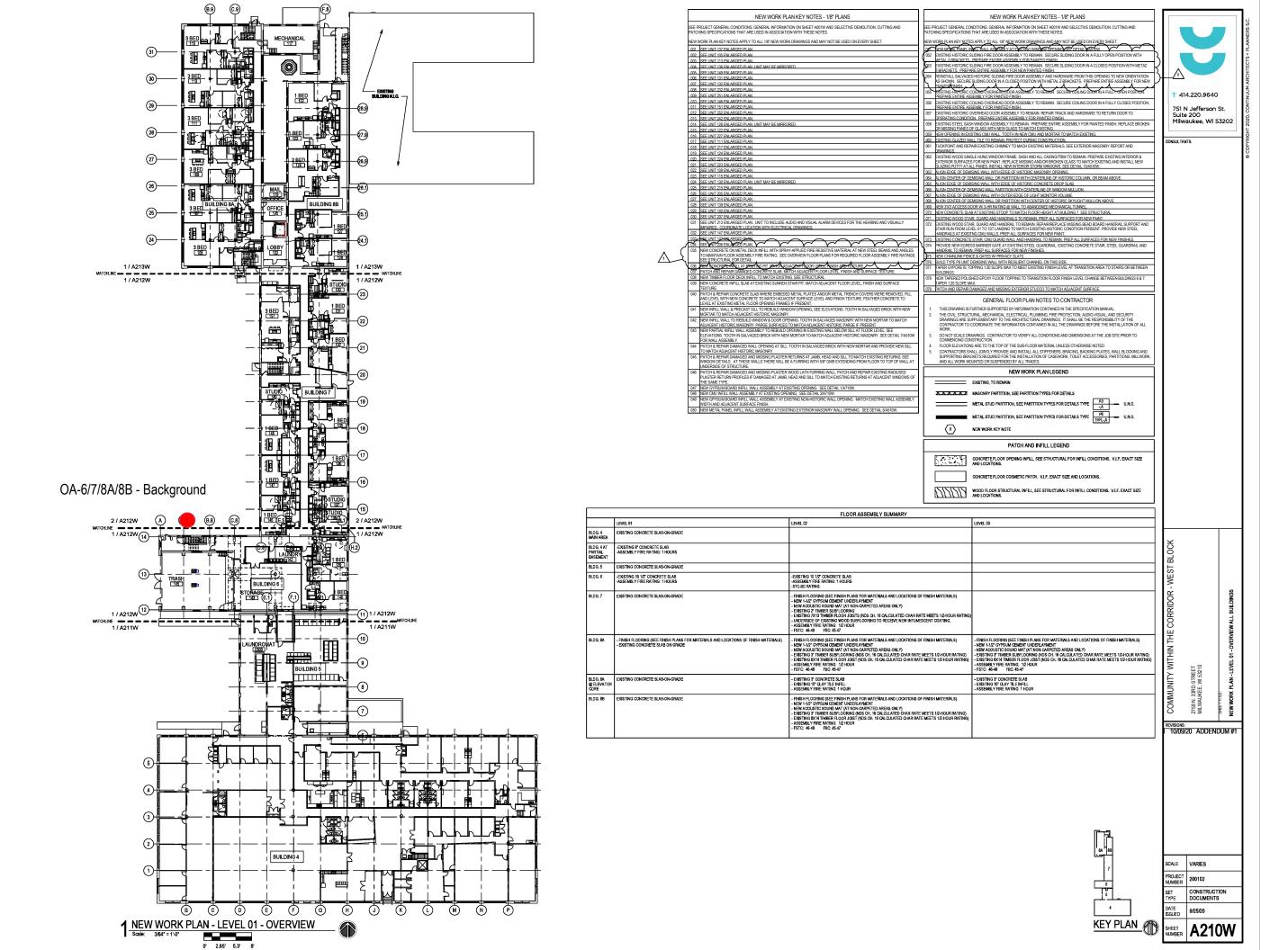
### Passive Sorbent Chain of Custody

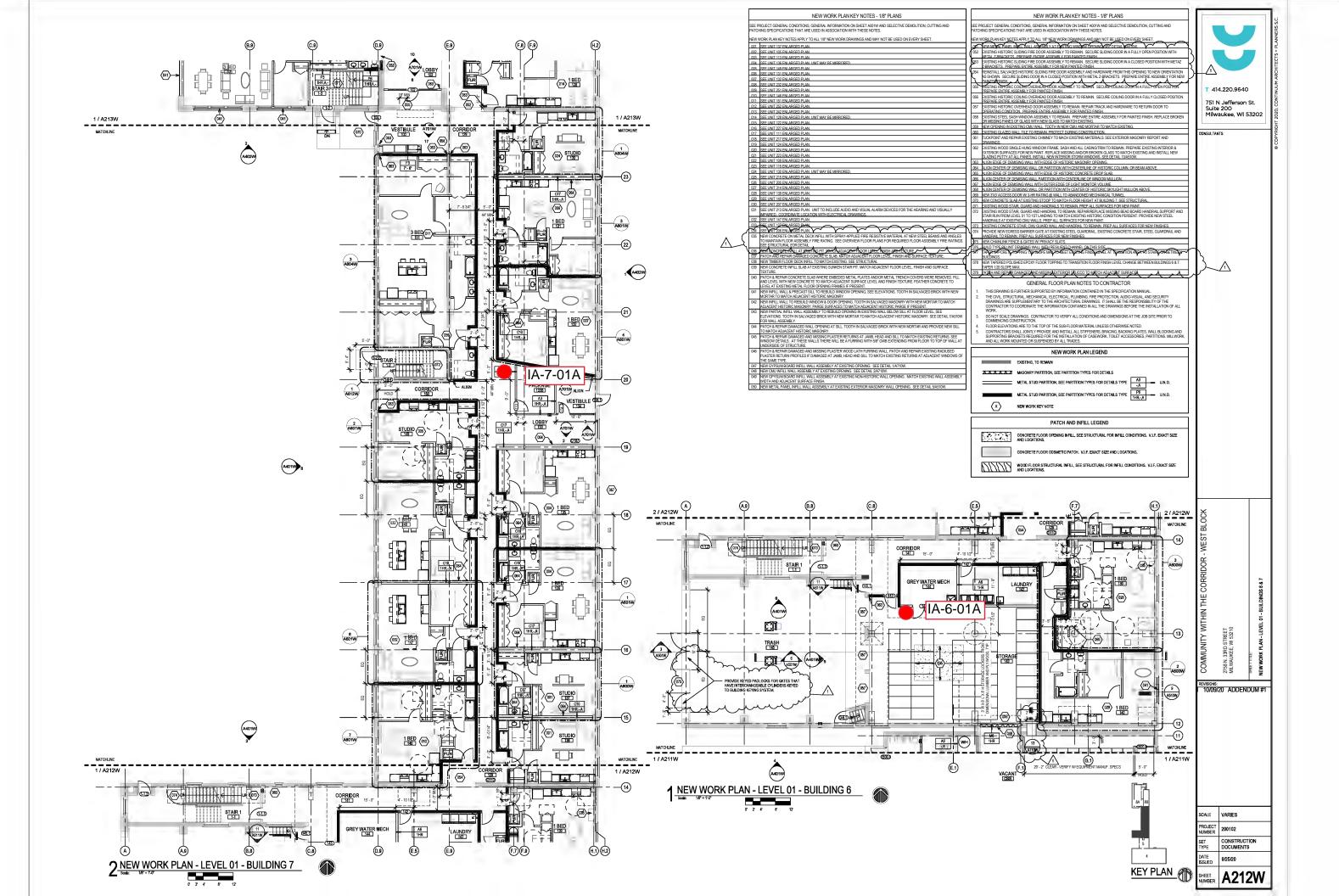
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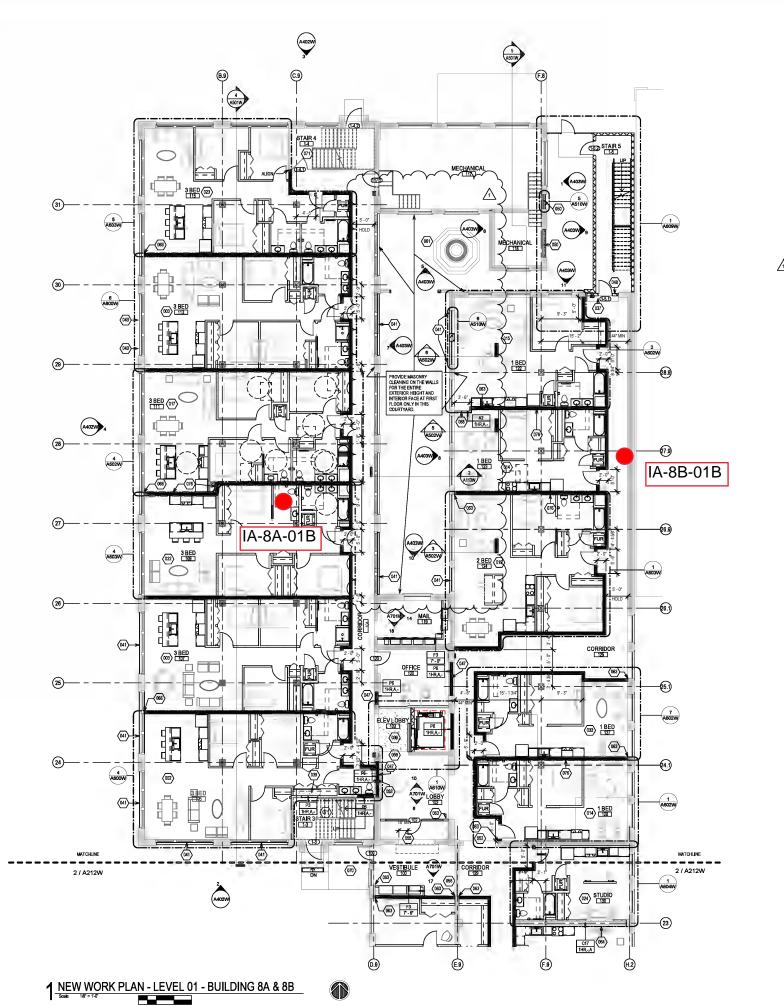
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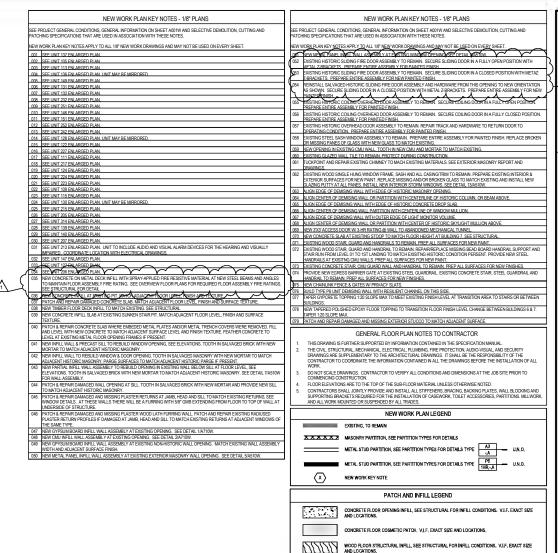
2302471

Sample Matrix Reporting Units Turn Around Time:												
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Project	Manager: Kober	1 Remete	Project Name:	CWC-	West Block	**	_		oring		ppbv µg/m3	☑ Normal
Contac	t phone/email: ((e)	nele@ Karngin anginkar	ngin anymusing. com Collected by: Justin Bust			oor A		Aonite		ppmv mg/m3	Rush	
Lab		The second secon	Date of	Time of	Date of	Time of	Out	Soil Gas	ace		µg ng	Specify
I.D.	Sample Identification	Sampler ID	Deployment (mm/dd/yy)	Deployment (hr:min)	Retrieval (mm/dd/yy)	Retrieval (hr:min)	Indoor/Outdoor Air		Workplace Monitoring	Other (	Analysis Requested	Sample Comments:
AIO	PG-654	IA-7-01A	02/08/23	9:33	02/15/23	10:15	1				PCE/TCE/DE	
02Fr	PG653	IN-8B-018	02/08/23	9:45	02/15/23	10:45	V				PCE/TCE DCE	And the state of t
03A	PG652	IA-8A-01B	02/08/23	9150	02/15/23	10:30	V				PLE/TCE/DLE	
oga	Placs	IN-6-01A	02/08/23	10:45	02/15/23	10:20	1000				RE/TEE/DEE	
05A	PG-643	OA-6/7/8N/8B	02/08/23	V1100	02/15/23	11:30	1/				PCE/TCE/DCE	
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Relinquished by: (signature)		Date  Date  Date	Time Received by: (signature)  8:30		Date ATL 2/21/73 Date		3	Time 1002	Notes to Lab:			
Relinquished by: (signature)				Title Treceived by, (signature)			Date					
Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples.												
Lab Use Only												
Shipper Air Bill #	Name: Feelly	L	Custody Seals Temperature (	į.	es No	None	Sar	nple (		tion circle	Upon Receipt:	Good SDR







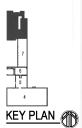


COMMUNITY WITHIN THE CORRIDOR - WEST BLOCK

TISSAN 3800 STREET
MILWALKEE WI 52210
SEPTIME

T 414.220.9640 751 N Jefferson St. Suite 200 Milwaukee, WI 53202

EVISIONS: 10/09/20 ADDENDUM #1



SCALE VARIES
PROJECT 200102
NUMBER CONSTRUCTION DOCUMENTS
DATE ESLED 9/25/20

A213W