KSingh | Engineers Scientists Consultants

MEMORANDUM

DATE : September 9, 2023

TO : Shane LaFave / Roers Companies, LLC

FROM : Pratap Singh, Ph.D., PE / KSingh

SUBJECT : Weekly Test Results and Remedial Action Activities for the Week Ending 09/09/2023 Community Within the Corridor - East Block

COPY TO : Que El-Amin / Scott Crawford, Inc., Robert Reineke, PE, Robert Fedorchak, PE Project #40441B

The purpose of this memorandum is to report the test results and provide a summary of the work performed as a part of the emergency response for the referenced project for the week ending 09/09/2023. The floor plan of the East Block can be seen in Figure 1.The following tasks were performed throughout the week:

1. Taks #1 – TCE sampling from cracks in the columns
   Air samples were taken from the cracks in the columns and analyzed in the portable GC. The results of the samples are reported in Tables 1 - 4. These results will be used to evaluate the requirement to seal the columns with biochar amended material. The levels suggest that in some areas, sealing the columns is essential. The columns are identified in Figure 2. A separate letter will be sent to WDNR to highlight the need for sealing the columns and seeking approval for the same.

2. Task #2 - Indoor Air Monitoring
   KSingh has been conducting daily indoor air measurements in the work area to comply with the USEPA and WDNR recommended levels of Trichloroethene (TCE) under 8.8 µg/m^3. The results of these samples are reported in Table 5 with no exceedances. These results have been added to the Comprehensive Data Table (Table 7).

3. Taks #3 - Vacuum Measurements for sub-slab depressurization
   Vacuum Measurements were taken in all locations except – Units 1051, 1048, 1045, 1050, Outside 1050, N Mechanical Room, and SW Garage (2). All locations demonstrated sufficient vacuum similar to the previous week except Stairwell 4, Outside 1035, SW Garage (6), and SW Garage (19). All the Blowers were turned down to 50% to conserve the fan has continue to maintain sufficient vacuum. The vacuum measurements for the week are reported in Table 6.

4. Task #4 - Blower Fan Exhaust Sampling
   Samples were collected from the blower exhaust of all operational blowers including the recently modified blowers 8 and 9. All bowers had a cumulative blow rate of about 2700 cfm leading to about 0.09 lbs removal of TCE in the first week of September. The individual blower exhaust rates and their

corresponding TCE concentrations with Year-To-Date exhaust quantities can be seen in Tables 8 and 9.

5. Task #5 - Construction Oversight
   The soil excavation task was executed by Titan Construction. Soil was excavated from the outdoor area outside the gym near Building 1B-S. The excavated soil was transported to the dumpster and is scheduled to be taken off the site.

Attachments
KSingh has included the following figures, tables, and pictures for reference:

- Figure 1: CWC EB Floor Plan
- Figure 2: CWC EB Floor Plan with column labels
- Tables 1-5: Indoor Air Monitoring Results by Date
- Table 6: Comprehensive Vacuum Measurements (inches H_2O)
- Table 7: Comprehensive Data Table – Indoor Air
- Table 8: Blower Fan Exhaust Data Table for September
- Table 9: Blower Fan Exhaust Data Table since March

East Building Level 1

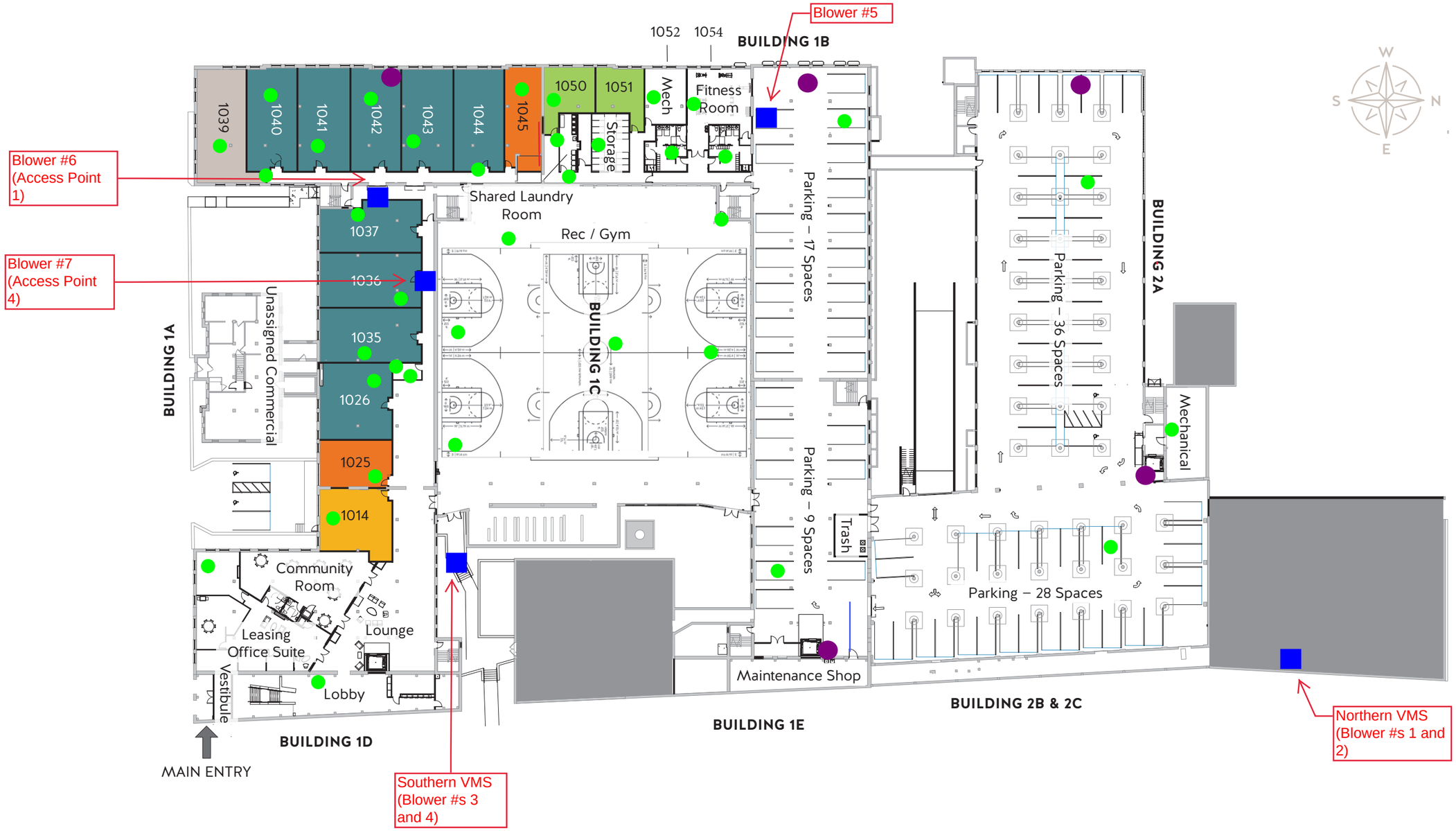

Figure 1 - CWC EB Level 1 Map with Blower, Vapor Pin and Sump Locations

East Building Level 1

Column	Non-detect TCE levels (< 0.6 µg/m^3)
Column	Detected TCE levels (0.6 - 2.1 µg/m^3)
Column	Detected TCE levels (> 2.1 µg/m^3)

Figure 2 - CWC EB Level 1 Map with Wooden Columns Locations and TCE Levels

Tables 1 - 5
Monitoring Results by Date
On-site EPA Method TO-14 Data

Instrument: SRI 8610 Gas Chromatograph with ECD
Operator: Sameer Neve, Ph.D. ENV SP and Samuel Ramirez / KSingh

Table 1: Monitoring Results from 09/04/2023

No readings taken on account of Labor Day Holiday

Table 2: Monitoring Results for columns from 09/05/2023

No.	Location	Time	TCE Reading (µg/m^3)
1	SWG - C13	8:50	<0.6
2	SWG - C14	8:59	<0.6
3	SWG - C15	9:10	<0.6
4	SWG - C16	9:17	<0.6
5	SEG - C1	9:27	<0.6
6	SEG - C2	9:34	<0.6
7	SEG - C3	9:42	<0.6
8	SEG - C4	9:52	<0.6
9	SEG - C5	10:04	<0.6
10	SEG - C6	10:12	<0.6
11	SEG - C7	10:20	<0.6
12	SEG - C8	10:27	<0.6
13	SEG - C9	10:35	<0.6
14	SEG - C10	10:45	<0.6
15	SEG - C11	11:04	<0.6
16	SEG - C12	11:15	<0.6
17	SEG - C13	11:30	<0.6
18	SEG - C14	11:38	<0.6
19	SEG - C15	11:46	<0.6
20	SEG - C16	11:56	<0.6
	Cal - 0.5 ppbv	7:36	0.45 ppbv

**Reporting Limit = 0.6 µg/m^3

Table 3: Monitoring Results for columns from 09/06/2023

No.	Location	Time	TCE Reading (µg/m3)
1	1037 - C1	7:51	<0.6
2	1037 - C2	8:00	<0.6
3	1036 - C1	8:08	<0.6
4	1036 - C2	8:16	<0.6
5	1036 - C3	8:24	<0.6
6	1036 - C4	8:34	<0.6
7	1035 - C1	8:42	<0.6
8	1035 - C2	8:50	<0.6
9	1035 - C3	8:58	<0.6
10	1035 - C4	9:08	<0.6
11	SH - C1	9:18	<0.6
12	SH - C2	9:28	<0.6
13	1026 - C1	9:35	<0.6
14	1026 - C2	9:44	<0.6
15	1025 - C1	9:52	<0.6
16	1014 - C1	10:00	<0.6
17	1014 - C2	10:13	<0.6
18	CR - C1	10:24	<0.6
19	CR - C2	10:36	<0.6
20	CR - C3	10:45	<0.6
21	1044 - C2	10:53	1.81
22	1044 - C1	11:01	2.06
23	CR - C4	11:09	<0.6
24	LO - C1	11:20	<0.6
25	LO - C2	11:28	<0.6
26	LO - C3	11:36	<0.6
27	LO - C4	11:44	<0.6
28	SR - C1	11:53	<0.6
29	CNFR - C1	12:01	<0.6
30	SH - C3	12:09	<0.6
31	SH - C4	12:23	<0.6
32	SH - C5	12:30	<0.6
33	SH - C6	12:44	<0.6
34	SH - C7	12:52	<0.6
35	SH - C8	13:00	<0.6
36	SH - C9	13:09	<0.6
37	SH - C10	13:16	<0.6
38	SH - C11	13:25	<0.6

39	SH - C12	13:38	<0.6
40	2057 - C3	13:52	<0.6
41	2045 - C1	14:01	<0.6
42	2045 - C2	14:11	<0.6
43	2043 - C3	14:20	<0.6
	Calibration (0.5 ppbv)		0.48 ppbv

**Reporting Limit = 0.6 µg/m^3

Table 4: Monitoring Results for columns from 09/07/2023

No.	Location	Time	TCE Reading (µg/m^3)
	Calibration (10 ppbv)	9:32 AM	6.74 ppbv
1	Unit 2014	10:35 AM	<0.6
2	Unit 2042	10:43 AM	<0.6
3	Unit 2045	10:51 AM	<0.6
4	Unit 2039	11:04 AM	<0.6
5	Unit 3014	11:11 AM	<0.6
6	Unit 3039	11:19 AM	<0.6
7	Unit 3045	11:31 AM	<0.6
8	Unit 3056	11:39 AM	<0.6

**Reporting Limit = 0.6 µg/m^3

Table 5: Monitoring Results for indoor air from 09/08/2023

No.	Location	Time	TCE Reading (µg/m3)
	Calibration (10 ppbv)		7.57 ppbv
1	Unit 2014	13:13	<0.6
2	Unit 2019	15:10	<0.6
3	Unit 2039	13:21	<0.6
4	Unit 2058	13:29	<0.6
5	Unit 2063	13:38	<0.6
6	Unit 2065	13:45	<0.6
7	Unit 2079	13:54	<0.6
8	Unit 2082	14:09	<0.6
9	Unit 2116	14:25	<0.6
10	Unit 3088	14:17	<0.6
11	Unit 3094	14:38	<0.6
12	Unit 3014	14:46	<0.6
13	Unit 3093	14:53	<0.6
14	Unit 2023	15:18	<0.6
15	Unit 2041	15:26	<0.6
16	Unit 3039	15:34	<0.6
17	Unit 3057	15:42	<0.6

**Reporting Limit = 0.6 µg/m^3

Table 6: Comprehensive Vacuum Measurements (inches H_2O)

Date	5-Sep	6-Sep	7-Sep	8-Sep	
Time	9:45	8:30	16:10	16:05	
Location					Average
1055	-0.208	-0.211	-0.21	-0.206	-0.209
1054	-0.459	-0.464	---	-0.451	-0.458
1053	-0.222	-0.231	---	-0.225	-0.226
Oppo. 1054	-0.119	-0.112	-0.022	-0.114	-0.092
Stairwell 4	0	0	0	0	0.000
1052	-0.411	-0.416	---	-0.396	-0.408
1049	-0.01	-0.011	0	0	-0.005
Out 1044	-0.059	-0.061	-0.045	-0.05	-0.054
1043	-0.033	-0.038	-0.019	-0.017	-0.027
1042	-0.026	-0.02	-0.01	0	-0.014
1041	-0.033	-0.037	-0.037	-0.023	-0.033
1040	-0.06	-0.058	-0.055	-0.038	-0.053
Out 1040	-0.084	-0.078	-0.073	-0.065	-0.075
1039	-0.01	-0.012	-0.009	-0.004	-0.009
1037	-0.015	-0.013	-0.011	-0.008	-0.012
1036	-0.011	-0.012	-0.014	-0.015	-0.013
1035	-0.016	-0.014	-0.015	-0.022	-0.017
Out 1035	0	0	0	0	0.000
1058 E	-0.022	-0.024	-0.018	-0.014	-0.020
1058 W	-0.026	-0.029	-0.023	-0.011	-0.022
1026	-0.066	-0.062	-0.061	-0.04	-0.057
1025	-0.09	-0.088	-0.084	-0.087	-0.087
1014	-0.433	-0.43	-0.425	-0.412	-0.425
1011	-0.116	-0.11	---	-0.088	-0.105
SE Lobby	-1.134	-1.128	-1.104	-1.111	-1.119
BB 3	-0.049	-0.053	-0.049	-0.051	-0.051
BB 4	-0.014	-0.011	0	0	-0.006
BB 5	-0.033	-0.029	-0.012	-0.006	-0.020
SW Garage (26)	-0.161	-0.165	-0.137	-0.138	-0.150
SW Garage (6)	0	0	0	0	0.000
SW Garage (19)	0	0	0	0	0.000
SE Garage (11)	-0.019	-0.016	0	0	-0.009
SE Garage (14)	-0.032	-0.035	-0.015	-0.015	-0.024
NW Garage (80)	-0.04	-0.038	-0.01	-0.011	-0.025
NE Garage (36)	-1.716	-1.739	-1.696	-1.695	-1.712
Red highlighted cells indicate values below the desired level on -0.01 inH_2O					

Community Within the Corridor - East Block

Table 7 - Discrete Sampling Test Results

Sample Location	30-Mar	31-Mar	1-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr
1045 Entry Floor Hole			400																					
1045 North Wall			360																					
1045 Wood Column			1500								352													
1050 South Wall Hole			8000																					
1st Floor Hallway Center	15				3.5	17.7	64	25	81.1	35		42.7	63.3	106	181	147	8.5	22.4	7.4	7.8		4.7	17.7	2.7
1st Floor Hallway North	10																							
1st Floor Hallway South	5.2																							
2081 Hallway		0																						
2nd Floor Corridor North		0																						
2nd Floor Corridor South		0																						
2nd Floor Hallway Center	0.7											3	3.6											
2nd Floor Hallway North	0.8	0																						
2nd Floor Hallway South	0.8																							
Stairwell 2	3.2	2																		4.5				2.9
2nd Floor Stairwell 4		0																			12.4			
2nd Floor Stairwell 8		0																						
3rd Floor Corridor			0																					
3rd Floor Hallway Center			0									3.3	2											
3rd Floor Hallway South	0																							
3rd Floor Stairwell 2	3.4					2.1																		
Stairwell 3			0.6																					
3rd Floor Stairwell 4			0.7																		11.2			
Basket Ball Court	0.3																				12			
Basket Ball Court 2	0																					7.5	6.3	
Basket Ball Court 3																								
Basket Ball Court 4																								
Elevator	0																							
Fitness Center										49.6	43.7		28.1							29.3				
Front Lobby		0																			4			
NW Garage	0.6																							
N Garage	0																					0		
SE Garage	0.8																							7.7
Hallway Outside 3021			0																					
Hallway Outside 3035			0																					
Hallway Outside 3065			0.7																					
N Mechanical Room										6.26	2.4	5.9	14.8	7	7.3	7.2	5.3	7.9		10	7	7.2	7.8	4.5
Men's Locker Room						60.7	123		122		428	82.9				161	131		23.7	28.3				
Women's Locker Room																								
Powerhouse																						0.7	3.2	
Unit 1002 - Postboxes																								
Unit 1006	0.3	0															4.3			1.4				
SSD Vent Pipe #1 - S - 7.5 HP			13	22	24.5	22	24.8	24	26.7	26.2	28	28	30.3	31.4	34.6	28.2	36.4	33.1	35.2	32		31.4	28.6	
SSD Vent Pipe #2 - S - 10 HP			26	30	21.9	16.4	18.7	17.2	44.4	19.5	19	47.7	29.3	57.8	20.5	21.1	19.8	21.4	20.9	20.7		20.6	28.5	
SSD Vent Pipe #3 - N - 7.5 HP					17.6	2.2	3	5	3.3	3	4.3	11.9	7.17	16.7	11.3	9.4	8.1	5.3	6.1	7.2		43.5	6.1	
SSD Vent Pipe #4 - N - 10 HP					41.2	29.5	33	39	37	38.7	39.1	29.3	44	41.9	36.8	38.2	35	42.8	43.1	46.3		5.7	44.4	
SW Garage																	11.3	21					20.3	
Stairwell 4	1.6					2.2			2.7	2.6				14.4			7							
Stairwell 6																								
Stairwell 7																								
Unit 1011																								
Unit 1014										0														

Unit 1025	0							0.96									3.6						4.8	
Unit 1026	0.3									0														
Unit 1035	0.3																							
Unit 1036	0.5																							
Unit 1037	2									0.9														
Unit 1039	4.7									11.4	8										3.4			
Unit 1040	10.3			12.7							14.5					21.2	22.6							
Unit 1041	11.6							19.9		16.8	14.4													
Unit 1042	11.4									16.2	15.2											12.6		9.3
Unit 1043	17.6					21.6	31.3				24													
Unit 1044	56					77	95			69.7	84.5					85.8		45.6		53.3				
Unit 1045	350		293	298	287	272	267	279	28.9	230	352	236	151.5	124	336	115	283	61	127	116	112	221	51.3	26.6
Unit 1048																								
Unit 1049																								
Unit 1050	160		137	143	110	348	280	108	135	114	706	145	60	118	142	149	110	77.8	131	138	152	113	71.7	199
Unit 1051	19					23		25.4			45.3													
Unit 1052					72.5	88.7	96.6	95.7	128	103	88.6	51.4	38.4			70.5			57.2	70.3		72		20.2
Unit 1056					24.8																	44		
Unit 1057																								
Unit 1058																								
Unit 1079																								
Unit 2014																								
Unit 2015																								
Unit 2016		0																						
Unit 2017		0																						
Unit 2022		0																						
Unit 2025		0																						
Unit 2036		0																			0			
Unit 2037		0																						
Unit 2039		0										2.5	2.5											
Unit 2040		0						0													0			
Unit 2042		0																						
Unit 2043	0.4	0																						
Unit 2044		0																						
Unit 2045	23	18				8		9	2.9			3.7	5.2											
Unit 2049																								
Unit 2056	60	52				42.2	24.7	49.2	9.6			3.4	6.6								1.5			
Unit 2057		4.7																						
Unit 2058	3.8	4.2				8.5			3.8															
Unit 2059	0.3	0																						
Unit 2061		0																						
Unit 2062		0																						
Unit 2063																								
Unit 2064	0					1																		
Unit 2065																								
Unit 2068																								
Unit 2077	0					1.6																		
Unit 2079																								
Unit 2111		0																						
Unit 2112																								
Unit 2114																								
Unit 2116																								
Unit 3014																								
Unit 3015			0					0																
Unit 3016																								
Unit 3017																								

Unit 3020																								
Unit 3021																								
Unit 3023																								
Unit 3025																					0			
Unit 3035			0																					
Unit 3036			0																					
Unit 3037			0					2	ND															
Unit 3039			0										1.8											
Unit 3040			0																		0			
Unit 3041			0																					
Unit 3042			0																					
Unit 3043			0																					
Unit 3044		0																						
Unit 3045		6.6										2.7	2.7											
Unit 3056	6	9.6				2.4		5.13	0.9			2.4	2.4								0			
Unit 3057		0																						
Unit 3058			0																					
Unit 3059			0																					
Unit 3061			0																					
Unit 3062			0																					
Unit 3063																								
Unit 3079																								
Unit 3092																								

Community Within the Corridor - East Block

Table 7 - Discrete Sampling Test Results

Sample Location	1-May	2-May	3-May	4-May	5-May	8-May	9-May	10-May	11-May	12-May	15-May	16-May	17-May	18-May	19-May	22-May	23-May	24-May	25-May	26-May	30-May	31-May
1045 Entry Floor Hole																						
1045 North Wall																						
1045 Wood Column																						
1050 South Wall Hole																						
1st Floor Hallway Center		14	9	3.5	2.3		3.49							21.2	3.48	5.39				2.38	3.6	
1st Floor Hallway North																						
1st Floor Hallway South									0.947	1.92	1.96		0									
2081 Hallway																						
2nd Floor Corridor North																						
2nd Floor Corridor South																						
2nd Floor Hallway Center								4.69			4.2									2.74		
2nd Floor Hallway North																						
2nd Floor Hallway South																						
Stairwell 2								4.15														
2nd Floor Stairwell 4						7.19																
2nd Floor Stairwell 8																						
3rd Floor Corridor																						
3rd Floor Hallway Center											1.7									1.71		
3rd Floor Hallway South																						
3rd Floor Stairwell 2				2.35																		
Stairwell 3								3.9														
3rd Floor Stairwell 4																						
Basket Ball Court														1.84			8.96					
Basket Ball Court 2		2.2		3	2.3	0.624			1.02					1.53			0					
Basket Ball Court 3														1.56			0.536					
Basket Ball Court 4														0.816			0.734					
Elevator																						
Fitness Center								29				33.8	21	21	24.5	16.6		42.5	15.1		24.2	
Front Lobby																						
NW Garage													14			0.62						
N Garage										1.78			0.607		0	0.63		0.776				
SE Garage																6.6		0.6				
Hallway Outside 3021																						
Hallway Outside 3035																						
Hallway Outside 3065																						
N Mechanical Room	13.7	11.5			10.1	10.9	11.8		6.89		10.7						0.737					
Men's Locker Room	58	31.6					53.3				52.3	7.62							21.7			
Women's Locker Room					45														25.8			
Powerhouse																						
Unit 1002 - Postboxes																					0	
Unit 1006	2.97							2.4			1.7						0.737				0	
SSD Vent Pipe #1 - S - 7.5 HP	26.1	27.9			25.7		26.2		21.9				27.01		26.7			7.04				19.6
SSD Vent Pipe #2 - S - 10 HP	1.2				20		15.7		18.7				18.2		19.3			11.1				33.8

SSD Vent Pipe #3 - N - 7.5 HP	8.6				5.9		4.97		0				3.47		3.41			1.85				4.8
SSD Vent Pipe #4 - N - 10 HP	38.3				37.7		22.4		4.83				31.1		21.9			4.7				20.2
SW Garage	25.2			26.1		23.6	25.5		21.4				0.683	1.15	0	7.84						
Stairwell 4		12								6			9.03									
Stairwell 6																						
Stairwell 7																						
Unit 1011								2.61	0													
Unit 1014																					0	
Unit 1025																	1.1	0		0	0	
Unit 1026								1.67	0	0											0.7	
Unit 1035																					1.1	
Unit 1036								1.37									4.59			2.37	1.2	
Unit 1037																						3.7
Unit 1039			1.4									5.18				6.06			1.19			8.1
Unit 1040								11.2	7.37			7.25							5.29			11.5
Unit 1041				13								7.07							9.13			10.9
Unit 1042	15.5					11.9	13.1			8.22	13.6	6.61	0.53		1.42	5.16		3.88	10.1		5.3	
Unit 1043												117							12.2			11.7
Unit 1044												37.6							29.3			37.8
Unit 1045	90.3	132	121		220	38.4	33.8		17.2	14.3	22.6	9.82	60.7		14.9	24.1	46.3	13.7	38.1		103	26
Unit 1048										86.2							45.7					
Unit 1049					142			159		96.9							66.1		21.4			30.3
Unit 1050	231	194	186	95.5	174	67.5	297		80.2	75.7	228	77.9		103	90.7	90.9	88.5	147	170		116	78.4
Unit 1051												52.7						39.8	18.2			
Unit 1052	73.6	62.6	340		76		70.7					55.7					32		16.8			21.1
Unit 1056																						
Unit 1057																					0	
Unit 1058																	1.46			0		
Unit 1079											152											
Unit 2014			48.8							0												
Unit 2015								0.77														
Unit 2016																						
Unit 2017																						
Unit 2022																						
Unit 2025																						
Unit 2036																						
Unit 2037																						
Unit 2039								0.77														
Unit 2040																						
Unit 2042				2.5																		
Unit 2043																						
Unit 2044																						
Unit 2045			19.1			1.36					0.99			1.97		2.99				11.8		
Unit 2049										1.07												
Unit 2056											1.11			5.89		11.5				66.4		
Unit 2057						1.24			0.64													
Unit 2058				2.9																		
Unit 2059																						
Unit 2061																						

Unit 2062																						
Unit 2063																						
Unit 2064						1.78																
Unit 2065																						
Unit 2068																						
Unit 2077				1.7		0.838																
Unit 2079																						
Unit 2111																		0				
Unit 2112																						
Unit 2114																						
Unit 2116																						
Unit 3014																						
Unit 3015																						
Unit 3016																						
Unit 3017																						
Unit 3020																						
Unit 3021																						
Unit 3023											0											
Unit 3025																						
Unit 3035																						
Unit 3036																						
Unit 3037																						
Unit 3039																						
Unit 3040																						
Unit 3041				2.45																		
Unit 3042																						
Unit 3043																						
Unit 3044																						
Unit 3045						0										3.75				8.11		
Unit 3056																1.21				6.99		
Unit 3057						0																
Unit 3058																						
Unit 3059																						
Unit 3061																						
Unit 3062																						
Unit 3063						0																
Unit 3079																						
Unit 3092				1.67																		

Community Within the Corridor - East Block																			
Table 7 - Discrete Sampling Test Results																			
Sample Location	**1-Jun**	**5-Jun**	**7-Jun**	**8-Jun**	**9-Jun**	**12-Jun**	**13-Jun**	**14-Jun**	**15-Jun**	**16-Jun**	**23-Jun**	**26-Jun**	**3-Jul**	**10-Jul**	**11-Jul**	**12-Jul**	**14-Jul**	**19-Jul**	**21-Jul**
1045 Entry Floor Hole																			
1045 North Wall																			
1045 Wood Column																			
1050 South Wall Hole																			
1st Floor Hallway Center							0.24							0.1					
1st Floor Hallway North																			
1st Floor Hallway South					**0.4**												0.39	0	0
2081 Hallway																			
2nd Floor Corridor North																			
2nd Floor Corridor South																			
2nd Floor Hallway Center					**0.42**									0.1					
2nd Floor Hallway North																			
2nd Floor Hallway South																			
Stairwell 2																			
2nd Floor Stairwell 4																			
2nd Floor Stairwell 8																			
3rd Floor Corridor																			
3rd Floor Hallway Center						0.47								0.1					
3rd Floor Hallway South																			
3rd Floor Stairwell 2																			
Stairwell 3					0.1		0.23										0.42	0	0
3rd Floor Stairwell 4																			
Basket Ball Court					2.65							0.2							
Basket Ball Court 2																	0.48	0.34	0.19
Basket Ball Court 3							0.24												
Basket Ball Court 4																			
Elevator																			
Fitness Center	16.1	4.2		**0.4**			0.29	0.55				0.49	0.69						
Front Lobby																	0.56	0.21	0.23

NW Garage						0.85	0												
N Garage							0.27												
SE Garage							0.23												
Hallway Outside 3021																			
Hallway Outside 3035																			
Hallway Outside 3065																			
N Mechanical Room	1.5					7.7	3.4				2.2	2.86							
Men's Locker Room				**0.5**				0.2			0.56	0.47	0.6						
Women's Locker Room				**0.4**				0.5											
Powerhouse																			
Unit 1002 - Postboxes																			
Unit 1006							0.21												
SSD Vent Pipe #1 - S - 7.5 HP						21.7													
SSD Vent Pipe #2 - S - 10 HP						18.4													
SSD Vent Pipe #3 - N - 7.5 HP																			
SSD Vent Pipe #4 - N - 10 HP																			
SW Garage							0.3				0.33								
Stairwell 4		3			**0.34**		0.24				0.33	0.2							
Stairwell 6																			
Stairwell 7																			
Unit 1011																			
Unit 1014					**0.21**						0			0.1					
Unit 1025					**0.31**														
Unit 1026														0.1					
Unit 1035					**0.22**						0.28	0.1		0.1					
Unit 1036			6.9		**0.26**						0.3								
Unit 1037					**0.46**						0.35	0.1		0.1					
Unit 1039				**0.7**	**0.3**						0.27	0.19		0.1					
Unit 1040				**0.6**								0.24							

Unit 1041					**0.51**											0.19	1.66	0.24	0.22
Unit 1042		4	19.2	**0.8**								0.24	0.1			0.1	0.82	0.21	0
Unit 1043					**0.53**			0.32			0.47		1.19						
Unit 1044		65.2	11.7	**1.7**				1.85			3.2	1.67	1.79			1.76	2.1	1.4	0.92
Unit 1045	23.3		14.4	2.4	5.26	3.84	3.33	2.99	2.88	2.57									
Unit 1048	121	19.8	13.5	**0.33**				0.43			0.72	0.1	0.55						
Unit 1049	21.8	23.6		**1.2**				0.58			2.5	1.03							
Unit 1050	60.4	27.3	10.3	3.4	3.05	2.28	1.95	2.12	2.17	1.62									
Unit 1051	16.9				**0.76**			0.38								0.26	1.35	0.27	0.24
Unit 1052	14.5			**0.23**				0.36				0.35	0.1						
Unit 1056	14.6																		
Unit 1057																			
Unit 1058							0.21				0.34								
Unit 1079																			
Unit 2014						0.35										0.1	0.54	0	0
Unit 2015																			
Unit 2016														0.1					
Unit 2017														0.1					
Unit 2022																			
Unit 2025														0.1					
Unit 2036																			
Unit 2037																			
Unit 2039																			
Unit 2040														0.1					
Unit 2042														0.1					
Unit 2043																			
Unit 2044																			
Unit 2045					**0.52**														
Unit 2049																			
Unit 2056					**1**											0.1	1.23	0.41	0.5
Unit 2057																0.1	0.49	1.09	0
Unit 2058																0.1	1.05	0.97	0
Unit 2059																0.1	0.21	0.77	0

Unit 2061																			
Unit 2062																			
Unit 2063															0.1				
Unit 2064																			
Unit 2065															0.1				
Unit 2068															0.1				
Unit 2077															0.1				
Unit 2079															0.1				
Unit 2111																			
Unit 2112															0.1				
Unit 2114															0.1				
Unit 2116															0.1				
Unit 3014						0.35										0.1			
Unit 3015																			
Unit 3016																0.1			
Unit 3017																			
Unit 3020																0.1			
Unit 3021																0.1			
Unit 3023																			
Unit 3025																			
Unit 3035																			
Unit 3036																			
Unit 3037																			
Unit 3039																			
Unit 3040																			
Unit 3041																			
Unit 3042																			
Unit 3043																			
Unit 3044																			
Unit 3045																			
Unit 3056						0.22													
Unit 3057						0.3										0.1	0.43	0.5	0
Unit 3058																			

Unit 3059																			
Unit 3061																			
Unit 3062																0.1	0.56	0.19	0
Unit 3063																			
Unit 3079															0.1				
Unit 3092																			

Community Within the Corridor - East Block																	
Table 7 - Discrete Sampling Test Results - August 2023																	
Sample Location	**1-Aug**	**2-Aug**	**7-Aug**	**8-Aug**	**9-Aug**	**10-Aug**	**11-Aug**	**14-Aug**	**15-Aug**	**16-Aug**	**17-Aug**	**18-Aug**	**28-Aug**	**29-Aug**	**30-Aug**	**31-Aug**	
1045 Entry Floor Hole																	
1045 North Wall																	
1045 Wood Column																	
1050 South Wall Hole																	
1st Floor Hallway Center				< 0.6	0.75	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	<0.6	<0.6	1.73	<0.6	
1st Floor Hallway North																	
1st Floor Hallway South																	
2081 Hallway																	
2nd Floor Corridor North																	
2nd Floor Corridor South																	
2nd Floor Hallway Center																	
2nd Floor Hallway North																	
2nd Floor Hallway South																	
Stairwell 2																	
2nd Floor Stairwell 4																	
2nd Floor Stairwell 8																	
3rd Floor Corridor																	
3rd Floor Hallway Center																	
3rd Floor Hallway South																	
3rd Floor Stairwell 2																	
Stairwell 3																	
3rd Floor Stairwell 4																	
Basket Ball Court																	
Basket Ball Court 2											<0.6	< 0.6			3.76	<0.6	
Basket Ball Court 3																	
Basket Ball Court 4													<0.6				
Elevator																	
Fitness Center													2.7	0.7			
Front Lobby																	
NW Garage																	
N Garage													<0.6				
SE Garage																	
Hallway Outside 3021																	
Hallway Outside 3035																	
Hallway Outside 3065																	
N Mechanical Room													4.8	7.3	9.9	2.74	
Men's Locker Room																	
Women's Locker Room													2.9	0.7			
Powerhouse																	
Unit 1002 - Postboxes																	
Unit 1006																	
SSD Vent Pipe #1 - S - 7.5 HP																	

SSD Vent Pipe #2 - S - 10 HP																	
SSD Vent Pipe #3 - N - 7.5 HP																	
SSD Vent Pipe #4 - N - 10 HP																	
SW Garage								<0.6	<0.6	<0.6							
Stairwell 4											< 0.6	< 0.6	<0.6				
Stairwell 6																	
Stairwell 7																	
Unit 1011																	
Unit 1014																	
Unit 1025																	
Unit 1026																	
Unit 1035																	
Unit 1036																	
Unit 1037																	
Unit 1039																	
Unit 1040																	
Unit 1041														<0.6			
Unit 1042		< 0.6												<0.6			
Unit 1043													2.3	<0.6	<0.6		
Unit 1044	< 0.6	< 0.6		**0.68**									2.5	0.9			
Unit 1045			1.72	1.87		2.95							7.8	1.7	2.7	<0.6	
Unit 1048	0.76		1.22	< 0.6	< 0.6		2	<0.6	<0.6				3.3	<0.6	2.63	<0.6	
Unit 1049	< 0.6	0.63	< 0.6	**1.99**	< 0.6	< 0.6	3.6	<0.6	<0.6	<0.6			1.5	<0.6			
Unit 1050				0.71				<0.6	<0.6		<0.6	<0.6	2.4	<0.6	<0.6		
Unit 1051		< 0.6		< 0.6													
Unit 1052																	
Unit 1056			< 0.6	< 0.6	0.62		< 0.6	<0.6	<0.6	<0.6			4.2	<0.6			
Unit 1057																	
Unit 1058																	
Unit 1079																	
Unit 2014																	
Unit 2015																	
Unit 2016																	
Unit 2017																	
Unit 2022																	
Unit 2025																	
Unit 2036																	
Unit 2037																	
Unit 2039																	
Unit 2040																	
Unit 2042																	
Unit 2043																	
Unit 2044																	
Unit 2045										< 0.6							
Unit 2049																	

Unit 2056										< 0.6							
Unit 2057																	
Unit 2058																	
Unit 2059																	
Unit 2061																	
Unit 2062																	
Unit 2063																	
Unit 2064																	
Unit 2065																	
Unit 2068																	
Unit 2077																	
Unit 2079																	
Unit 2111																	
Unit 2112																	
Unit 2114																	
Unit 2116																	
Unit 3014																	
Unit 3015																	
Unit 3016																	
Unit 3017																	
Unit 3020																	
Unit 3021																	
Unit 3023																	
Unit 3025																	
Unit 3035																	
Unit 3036																	
Unit 3037																	
Unit 3039																	
Unit 3040																	
Unit 3041																	
Unit 3042																	
Unit 3043																	
Unit 3044																	
Unit 3045																	
Unit 3056																	
Unit 3057																	
Unit 3058																	
Unit 3059																	
Unit 3061																	
Unit 3062																	
Unit 3063																	
Unit 3079																	
Unit 3092																	

Community Within the Corridor - East Block																	
Table 7 - Discrete Sampling Test Results - September 2023																	
Sample Location	8-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	
1045 Entry Floor Hole																	
1045 North Wall																	
1045 Wood Column																	
1050 South Wall Hole																	
1st Floor Hallway Center																	
1st Floor Hallway North																	
1st Floor Hallway South																	
2081 Hallway																	
2nd Floor Corridor North																	
2nd Floor Corridor South																	
2nd Floor Hallway Center																	
2nd Floor Hallway North																	
2nd Floor Hallway South																	
Stairwell 2																	
2nd Floor Stairwell 4																	
2nd Floor Stairwell 8																	
3rd Floor Corridor																	
3rd Floor Hallway Center																	
3rd Floor Hallway South																	
3rd Floor Stairwell 2																	
Stairwell 3																	
3rd Floor Stairwell 4																	
Basket Ball Court																	
Basket Ball Court 2																	
Basket Ball Court 3																	
Basket Ball Court 4																	
Elevator																	
Fitness Center																	
Front Lobby																	
NW Garage																	
N Garage																	
SE Garage																	
Hallway Outside 3021																	
Hallway Outside 3035																	
Hallway Outside 3065																	
N Mechanical Room																	
Men's Locker Room																	
Women's Locker Room																	
Powerhouse																	
Unit 1002 - Postboxes																	
Unit 1006																	
SSD Vent Pipe #1 - S - 7.5 HP																	
SSD Vent Pipe #2 - S - 10 HP																	
SSD Vent Pipe #3 - N - 7.5 HP																	
SSD Vent Pipe #4 - N - 10 HP																	
SW Garage																	
Stairwell 4																	

Stairwell 6																	
Stairwell 7																	
Unit 1011																	
Unit 1014																	
Unit 1025																	
Unit 1026																	
Unit 1035																	
Unit 1036																	
Unit 1037																	
Unit 1039																	
Unit 1040																	
Unit 1041																	
Unit 1042																	
Unit 1043																	
Unit 1044																	
Unit 1045																	
Unit 1048																	
Unit 1049																	
Unit 1050																	
Unit 1051																	
Unit 1052																	
Unit 1056																	
Unit 1057																	
Unit 1058																	
Unit 1079																	
Unit 2014	< 0.6																
Unit 2015																	
Unit 2016																	
Unit 2017																	
Unit 2019	< 0.6																
Unit 2022																	
Unit 2023	< 0.6																
Unit 2025																	
Unit 2036																	
Unit 2037																	
Unit 2039	< 0.6																
Unit 2040																	
Unit 2041	< 0.6																
Unit 2042																	
Unit 2043																	
Unit 2044																	
Unit 2045																	
Unit 2049																	
Unit 2056																	
Unit 2057																	
Unit 2058	< 0.6																
Unit 2059																	
Unit 2061																	
Unit 2062																	
Unit 2063	< 0.6																

Unit 2064																	
Unit 2065	< 0.6																
Unit 2068																	
Unit 2077																	
Unit 2079	< 0.6																
Unit 2082	< 0.6																
Unit 2111																	
Unit 2112																	
Unit 2114																	
Unit 2116	< 0.6																
Unit 3014	< 0.6																
Unit 3015																	
Unit 3016																	
Unit 3017																	
Unit 3020																	
Unit 3021																	
Unit 3023																	
Unit 3025																	
Unit 3035																	
Unit 3036																	
Unit 3037																	
Unit 3038																	
Unit 3039	< 0.6																
Unit 3040																	
Unit 3041																	
Unit 3042																	
Unit 3043																	
Unit 3044																	
Unit 3045																	
Unit 3056																	
Unit 3057	< 0.6																
Unit 3058																	
Unit 3059																	
Unit 3061																	
Unit 3062																	
Unit 3063																	
Unit 3079																	
Unit 3092																	
Unit 3093	< 0.6																

Table 8: Blower Fan Exhaust Data Table for August

GC TCE Measurements of Blower Effluent and Estimated Removal Rates						
Date: September 7, 2023						
Blower No.	Pipe Diameter	Exhaust Velocity	Flow Rate	TCE Concentration	TCE Removal Rate	TCE Removal Rate
	inches	fpm	cfm	ug/m3	lbs/day	lbs/yr
1	4	3642	318	3.41	0.000097	0.035561
2	4	4449	388	17.04	0.000595	0.217077
2A	4	4351	380	25.1	0.000857	0.312712
3 and 4	6	4016	789	15.3	0.001085	0.395867
5	4	2857	249	265.9	0.005960	2.175255
6	4	2067	180	71.4	0.001158	0.422591
9	4	1161	101	1.45	0.000013	0.004820
8	4	3032	265	11.45	0.000272	0.099407
			2670		Total	3.56

Table 9: Blower Fan Exhaust Data Table since March

TCE Measurements of Blower Effluent and Estimated Removal						
TCE Removal (lbs in Month)						
Blower No.	**May**	**June**	**July**	**August**	**September**	**Total**
1	0.0172	0.0175	0.0250	0.0039	0.0009	0.0644
2	0.0313	0.0206	0.0190	0.0149	0.0054	0.0911
2A				0.0277	0.0077	0.0354
3+4	0.0241	0.0154	0.0387	0.0471	0.0098	0.1350
5		0.4196	0.2556	0.3277	0.0536	1.0565
6		0.0229	0.0085	0.0886	0.0104	0.1305
7		0.0093	0.0210	0.0179	0.0000	0.0482
8		0.0015		0.0052	0.0025	0.0091
9				0.0001	0.0001	0.0002
					Total	**1.5701**