

Ms. Stephanie M. Fitzgerald
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Our Ref: 30053689

Subject: Off-Site Sub-Slab Depressurization System – 8 Adler Drive
Northern Circuits (Site No. 734124)
6 Adler Drive, Dewitt, New York

Dear Ms. Fitzgerald,

This letter summarizes operation, maintenance, and monitoring (OMM) activities conducted in 2024 for the off-site sub-slab depressurization (SSD) system installed at 8 Adler Drive, Dewitt, New York (**Figure 1**), related to the former Northern Circuits Site No. 734124 at 6 Adler Drive, Dewitt, New York. In 2020, an SSD system was installed at 8 Adler Drive to mitigate the potential for vapor intrusion in a portion of the building, as detailed in a report prepared by Arcadis of New York, Inc. (Arcadis) entitled *Construction Completion Report – Off-Site Sub-Slab Depressurization System, 8 Adler Drive* (CCR, Arcadis 2021). On behalf of NYSDEC, Arcadis prepared a work plan entitled *Sub-Slab Depressurization System Enhancement Work Plan – 8 Adler Drive* (Work Plan, Arcadis 2024) summarizing SSD system enhancement activities to be implemented; NYSDEC's call-out contractor, Labella Associates, D.P.C (Labella) implemented SSD system enhancements in August 2024.

On behalf of the New York State Department of Environmental Conservation (NYSDEC), Arcadis conducted OMM for the 8 Adler Drive SSD system during 2024 consisting of quarterly OMM events, SSD system performance evaluation, non-routine OMM activities, and associated coordination and reporting. Arcadis also performed construction oversight and associated startup monitoring related to SSD system enhancements in August 2024. The monitoring and reporting period addressed by this letter includes the first through the fourth quarters of 2024.

Activities Completed

OMM activities completed in 2024 can be characterized as routine or non-routine and are summarized below.

Routine OMM

Quarterly OMM events were conducted by Arcadis on March 21, June 19, September 27, and December 11, 2024. Each quarterly OMM event included measuring and/or recording the following:

- Sub-slab differential pressure at vacuum monitoring points (VMPs).
- Air velocity at SSD extraction points.
- Applied vacuum as per SSD extraction point vacuum gauges.
- Inline fan vacuum as per vacuum transmitters.

- Positions of SSD extraction point inline valves and inline fan makeup air valves.
- Depth to water at nearby groundwater monitoring wells.

Arcadis reviewed the OMM data in real time and made system configuration adjustments as necessary.

The OMM log sheets completed during the quarterly OMM events are provided in Attachment 1. A summary of system performance monitoring data is included in Table 1 (attached).

Non-Routine OMM

Non-routine OMM activities for 2024 include:

- SSD system enhancements were completed by Labella in August 2024 and included the installation of extraction points EP-1C, EP-2C, EP-2D, EP-3D, EP-3E and EP-3F, and the installation of VMP-2R to replace VMP-2 (which was abandoned during installation of EP-2C). The new extraction points went online on August 16, 2024. To assess and optimize system performance with the new extraction points operating, “startup” phase monitoring data were obtained by Arcadis on August 16, August 22, and August 29, 2024 (Table 1). During the startup period, extraction point applied vacuums were optimized (i.e., adjusted via inline or makeup air valves) to target sub-slab vacuum throughout the mitigation area while minimizing the effect of shallow groundwater present beneath the slab.
- On September 27, 2024, the makeup air filters for fans F-100, F-200 and F-300 were replaced due to significant buildup and debris observed on the filters.

Performance Monitoring Results

The performance of the SSD system was evaluated by reviewing measurements of sub-slab to indoor air differential pressure and applied vacuums and flow rates at the SSD extraction points.

Sub-Slab Differential Pressure

Sub-slab differential pressures measured during 2024 quarterly OMM events and startup events are presented in Table 2 below. If the system configuration was different at the start and end of an OMM event (e.g., second quarter), data for both configurations are shown.

Table 2 – Sub-Slab Differential Pressures Measured During 2024

Vacuum Monitoring Point	1 st Quarter	2 nd Quarter		SSDS Enhancements Startup			3 rd Quarter		4 th Quarter
	3/21/24	6/19/24		8/16/24	8/22/24	8/29/24	9/27/24		12/11/24
		Upon Arrival	After System Adjustments				Upon Arrival	After System Adjustments	
VMP-1	0.002	-0.002	NM	-0.007	-0.006	-0.003	-0.004	-0.001	-0.005
VMP-2	0.000	-0.001	NM	NM	-0.005	-0.017	-0.005	-0.009	-0.004
VMP-3	-0.083	-0.079	NM	-0.364	-0.004	-0.177	-0.834	-0.428	-0.816
VMP-4	-0.001	-0.001	NM	-0.379	-0.014	-0.325	-0.008	-0.012	-0.007
VMP-5	-0.001	-0.003	NM	-0.017	0.140	-0.009	-0.025	-0.035	-0.032
VMP-6	-0.001	-0.002	NM	-0.009	-0.005	-0.005	-0.002	-0.011	-0.031
VMP-7	-0.008	-0.010	NM	-0.042	-0.058	-0.042	-0.038	-0.041	-0.034
VMP-8	-0.003	-0.004	NM	-0.006	-0.006	-0.005	-0.754	-0.649	-0.693

Notes:

- a) Differential pressures shown are in units of inches of water column.
- b) Negative sub-slab differential pressures are highlighted gray.
- c) NM = not measured due to building access restrictions.

As shown in Table 2, a negative sub-slab differential pressure (i.e., vacuum influence) was measured at all VMPs for each event conducted after the enhanced SSD system (i.e., additional SSD extraction points) began operation on August 16, 2024. At VMP-1, where a negative sub-slab differential pressure was rarely measured prior to SSD system enhancements, sub-slab differential pressure ranged from -0.001 to -0.007 inches of water column (iwc) following SSD system enhancements. Variations in the sub-slab differential pressures were demonstrated and are likely attributable to a fluctuating shallow water table beneath the building as well as occasional adjustments to inline valves for extraction points and makeup air valves for inline fans to optimize system performance.

Applied Vacuum and Flow Rate

System applied vacuums and flow rates during 2024 OMM events are presented in Table 3 below. SSD system enhancement startup data are presented in Table 4 below. As with Table 2, if the system configuration was different at the start and end of an OMM event (e.g., second quarter), data for both configurations are shown.

Table 3 – Applied Vacuum and Flow Rate During 2024 Routine OM&M Events

System ID	Parameter	1 st Quarter	2 nd Quarter		3 rd Quarter		4 th Quarter
		3/21/24	6/19/24		9/27/24		12/11/24
			Upon Arrival	After System Adjustments	Upon Arrival	After System Adjustments	
Fan-100	Applied Vacuum	14 to 14.5	13	13	13 to 15.5	5 to 6	13 to 13.5
	Flow Rate	3	4	5	6	3	33
Fan-200	Applied Vacuum	6	3.5 to 4	9	15 to 17.5	7 to 8	7 to 9
	Flow Rate	5	24	50	22	14	29
Fan-300	Applied Vacuum	7.5 to 9	11 to 12	11 to 12	8 to 9	6.5 to 7.5	7 to 7.5
	Flow Rate	4	8	9	13	10	14

Notes:

- SSD extraction points EP-1C, EP-2C, EP-2D, EP-3D, EP-3E, and EP-3F brought online on August 16, 2024.
- System flow rates shown are the sum of the flow rates measured at each SSD extraction point for each fan system. Where the SSD extraction point flow rate is indicated as < 1 in Table 2, a value of 1 has been used for the system flow rates presented in this table.
- Applied vacuums shown are the range of applied vacuums at SSD extraction points for each fan system.
- Applied vacuum units are inches of water column. Flow rate units are cubic feet per minute.

Table 4 – Applied Vacuum and Flow Rate at Extraction Points During Startup

System ID	SSD Extraction Point	SSDS Enhancements Startup					
		8/16/24		8/22/24		8/29/24	
		Applied Vacuum	Flow Rate	Applied Vacuum	Flow Rate	Applied Vacuum	Flow Rate
F-100	EP-1A	7.5	20	13	17	14.5	12
	EP-1B	7.5	15	13.5	15	14.5	8
	EP-1C	7.5	11	12	32	15	9
F-200	EP-2A	5.5	24	12	13	2	8
	EP-2B	7	22	12	15	2	7
	EP-2C	8.5	18	12	13	2	5
	EP-2D	7.5	8	12	18	2	6
F-300	EP-3A	9.5	12	11	16	8	9
	EP-3B	9.5	15	10.5	13	8	11
	EP-3C	8	21	11	15	8	7
	EP-3D	9	31	11	25	8	9
	EP-3F	9	17	11	17	8	11
	EP-3F	9	9	11	17	8	12

Notes:

- Applied vacuums shown are in units of inches of water column. Flow rates shown are in units of cubic feet per minute.

As shown in Table 3, the applied vacuums ranged from 5 to 15.5 iwc for the fan F-100 system, 3.5 to 17.5 iwc for the fan F-200 system, and 6.5 to 12 iwc for the fan F-300 system during 2024 OM&M events. Flow rates ranged from 3 to 33 cubic feet per minute (cfm) for the fan F-100 system, 5 to 50 cfm for the fan F-200 system, and 4 to 14 cfm for the fan F-300 system.

The vacuum applied at SSD extraction points during the 2024 SSDS enhancements startup (Table 4), ranged from 2 iwc (EP-2A, EP-2B, EP-2C and EP-2D) to 15 iwc (EP-1C). The SSD extraction point flow rates measured during the 2024 SSDS enhancements startup ranged from less than 5 cfm (EP-2C) to 32 cfm (EP-1C).

As shown in Table 3, the third and fourth quarter performance monitoring data (i.e., monitoring conducted after the August 2024 SSDS enhancements were completed) indicate that the systems yield similar or greater flow rates at similar or lower applied vacuums, as compared to the first and second quarters (i.e., prior to the August 2024 SSD enhancements).

Performance Evaluation

Performance monitoring data obtained since the August 2024 SSD enhancements were implemented indicate an increase in both the extent and magnitude of sub-slab vacuum influence, including the following:

- For VMP-1, a negative sub-slab differential pressure was measured during both the third quarter (-0.001 and -0.004 iwc) and fourth quarter (-0.005 iwc) OMM events. Previously, a negative sub-slab differential pressure had been measured just one time at VMP-1 since startup of the SSDS.
- For VMP-6, a negative sub-slab differential pressure was measured during both the third quarter (-0.002 and -0.011 iwc) and fourth quarter (-0.031 iwc) OMM events. During the previous two years (since third quarter 2022), sub-slab differential pressure measured at VMP-6 ranged from -0.002 iwc to positive (+0.235 iwc).
- For VMP-8, a negative sub-slab differential pressure of -0.649 iwc or better was measured during the third and fourth quarter OMM events. Previously, a neutral or slightly negative sub-slab differential pressure was measured at VMP-8, including a historical low of -0.012 iwc in August 2020.

While extraction point applied vacuums and flow rates continue to vary, performance monitoring data generally indicate that less vacuum is needed for each fan system to yield the sub-slab vapor extraction rate necessary to achieve sub-slab vacuum influence in the mitigation area.

Future Activities

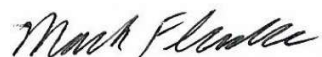
Arcadis will continue performing quarterly SSD system OMM events in 2025. Following each routine OMM event, Arcadis will provide NYSDEC with an email summarizing the OMM event including updated performance data tables. Arcadis will provide NYSDEC with at least 2 days of notice prior to scheduling SSD system OMM events at the site and will also coordinate access with the building owner. The first quarter OMM event was completed on March 6, 2025. For any non-routine OMM needs that arise during 2025, Arcadis will coordinate activities with NYSDEC and the building owner.

A letter report summarizing 2025 OMM activities and performance monitoring data will be prepared by Arcadis and submitted to NYSDEC during the first quarter of 2026.

Ms. Stephanie M. Fitzgerald
New York State Department of Environmental Conservation
May 19, 2025

If you have any questions, please contact me at 518.250.7322 or Christopher Davern of Arcadis at 518.250.7346.

Sincerely,
Arcadis of New York, Inc.



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Table 1 – System Performance Data
Figure 1 – System Layout
Attachment 1 – OMM Log Sheets

Table 1
System Performance Data
Off-Site Sub-Slab Depressurization System (8 Adler Drive)
Northern Circuits (Site No. 734124)
6 Adler Drive, Dewitt, New York



Location		Parameter	Date																															
			8/13/20 ^(a)	9/11/20 ^(a)	3/9/21	3/11/21	6/11/21 ^(b)	8/12/21	9/15/21	9/24/21	12/13/21 ^(d)	3/29/22 ^(e)	6/22/22	9/28/22	12/29/22 ^(f)	3/10/23	6/26/23 ^(g)	9/12/23	12/29/23 ^{(h)(i)}	3/21/24 ^(j)	6/19/24 ^(k)	8/16/24 ^(l)	8/22/24 ^(l)	8/29/24 ^(l)	9/27/24 ^(m)	12/11/24								
Extraction Points	EP-1A	Applied Vacuum (iwc)	9.5	4.5	5.5	5	5	5	9	10	12	5	7.5	8	10	7.5	8	8	NM	5.5	5	13	12.5	14	7	14	13	13	7.5	13	14.5	13	5.5	13
		Flow Rate (scfm)	5	2	2	7	6	5	NM	2	1	16	7	14	2	5	3	4	NM	4	3	5	7	11	10	2	3	4	20	17	12	3	1	10
	EP-1B	Applied Vacuum (iwc)	9.5	4.5	5.5	5	5	5	10	10	12	5.5	8	8.5	10.5	7.5	8	8.5	NM	5.5	5	13	12.5	14.5	7	14.5	13	13	7.5	13.5	14.5	13.5	6	13.5
		Flow Rate (scfm)	6	7	4	6	5	9	NM	4	< 1	15	6	16	10	3	3	7	NM	5	3	4	6	19	7	1	1	< 1	15	15	8	< 1	1	9
	EP-1C	Applied Vacuum (iwc)	Not Installed																									7.5	12	15	15.5	5	13	
		Flow Rate (scfm)	Not Installed																									11	32	9	2	< 1	14	
	EP-2A	Applied Vacuum (iwc)	4	0.5	1.5	1	1.5	3.5	3	14	14	5.5	8	6.5	10	3	5.5	3	NM	4.5	5	13.5	12	21	6.5	6	4	9	5.5	12	2	17.5	7.5	9
		Flow Rate (scfm)	5	10	13	13	10	20	NM	3	1	15	9	10	3	16	3	16	NM	8	2	2	8	9	4	1	19	38	24	13	8	2	< 1	12
	EP-2B	Applied Vacuum (iwc)	4	5	6.5	6	5	4	3	14	14	6	8	6.5	10	3	5.5	3	NM	4.5	5	13.5	12	21	6	6	3.5	9	7	12	2	17	8	8
		Flow Rate (scfm)	7	8	1	7	8	7	NM	10	13	17	11	5	4	4	4	2	NM	3	6	10	9	NM	5	4	5	12	22	15	7	15	9	4
	EP-2C	Applied Vacuum (iwc)	Not Installed																									8.5	12	2	15	7	7	
		Flow Rate (scfm)	Not Installed																									18	13	5	2	< 1	1	
	EP-2D	Applied Vacuum (iwc)	Not Installed																									7.5	12	2	15	7	8.5	
		Flow Rate (scfm)	Not Installed																									8	18	6	4	3	12	
	EP-3A	Applied Vacuum (iwc)	12.5	10	10.5	10	10	10	10	12.5	12	6	7.5	8	7	5	3.5	7.5	NM	7.5	7.5	7.5	8	NM	NM	9	12	12	9.5	11	8	9	7.5	7.5
		Flow Rate (scfm)	6	2	3	11	8	8	NM	2	1	16	10	2	2	2	1	6	NM	2	4	2	5	NM	NM	< 1	2	1	12	16	9	1	1	2
	EP-3B	Applied Vacuum (iwc)	12.5	10	10.5	8	< 1	10	10	12.5	12	6	7.5	8	4.5	2	7.5	7.5	NM	8	7.5	7.5	8	NM	NM	9	12	12	9.5	10.5	8	9	7.5	7.5
		Flow Rate (scfm)	7	4	2	4	1	10	NM	3	2	17	6	2	1	1	4	7	NM	3	4	5	5	NM	NM	< 1	2	5	15	13	11	3	4	4
	EP-3C	Applied Vacuum (iwc)	11.5	9.5	10	10	9	9	9	11.5	12	5	7.5	7.5	7	7	7	7	NM	7	7	7	7	NM	NM	7.5	11	11	8	11	8	8.5	7	7
		Flow Rate (scfm)	8	5	4	7	4	13	NM	3	2	18	7	3	8	4	3	6	NM	5	4	4	5	NM	NM	2	4	3	21	15	7	4	2	2
	EP-3D	Applied Vacuum (iwc)	Not Installed																									9	11	8	8	6.5	7	
		Flow Rate (scfm)	Not Installed																									31	25	9	1	< 1	2	
	EP-3E	Applied Vacuum (iwc)	Not Installed																									9	11	8	8	7	7	
		Flow Rate (scfm)	Not Installed																									17	17	11	3	< 1	2	
	EP-3F	Applied Vacuum (iwc)	Not Installed																									9	11	8	8	7	7	
		Flow Rate (scfm)	Not Installed																									9	17	12	< 1	< 1	2	
Vacuum Monitoring Points	VMP-1	Sub-Slab Differential Pressure (iwc)	0.000	0.001	0.004	0.002	0.000	0.000	0.000	0.001	0.000	0.000	0.003	0.006	0.002	0.000	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	-0.002	NM	-0.007	-0.006	-0.003	-0.004	-0.001	-0.005	
	VMP-2/VMP-2R ^(N)		-0.002	-0.013	0.000	-0.001	-0.003	-0.006	-0.007	-0.027	-0.001	0.000	0.000	0.002	0.002	-0.359	0.002	-0.002	-0.002	-0.001	0.000	-0.001	-0.009	0.009	0.002	0.000	-0.001	NM	NM	-0.005	-0.017	-0.005	-0.009	-0.004
	VMP-3		-0.220	-0.216	-0.001	-0.001	-0.209	-0.158	-0.171	-0.480	-0.532	-0.194	-0.255	0.003	-0.001	-0.159	0.087	-0.033	-0.036	-0.087	-0.213	-0.477	-0.430	-0.028	0.000	-0.083	-0.079	NM	-0.364	-0.004	-0.177	-0.834	-0.428	-0.816
	VMP-4		-0.220	-0.132	-0.146	-0.145	-0.138	-0.432	-0.476	-0.012	0.000	-0.002	-0.004	-0.001	0.002	-0.006	0.457	-0.350	-0.353	-0.141	-0.001	-0.003	-0.115	0.007	0.008	-0.001	-0.001	NM	-0.379	-0.014	-0.325	-0.008	-0.012	-0.007
	VMP-5		-0.006	-0.007	-0.001	-0.001	-0.005	-0.005	-0.003	-0.013	-0.016	-0.006	-0.007	0.051	0.000	-0.004	0.910	-0.002	-0.002	-0.002	-0.006	-0.010	-0.010	-0.045	-0.023	-0.001	-0.003	NM	-0.017	0.140	-0.009	-0.025	-0.035	-0.032
	VMP-6		-0.010	-0.010	-0.002	-0.007	-0.001	-0.001	0.000	0.001	0.000	-0.001	-0.001	0.000	-0.003	-0.009	0.000	0.235	-0.001	0.165	0.000	-0.001	-0.002	NM	NM	-0.001	-0.002	NM	-0.009	-0.005	-0.005	-0.002	-0.011	-0.031
	VMP-7		-0.062	-0.050	-0.032	-0.033	-0.041	-0.041	-0.043	-0.052	-0.051	-0.015	-0.022	-0.012	-0.017	-0.033	-0.051	-0.023	-0.020	-0.022	-0.032	-0.033	-0.036	NM	NM	-0.008	-0.010	NM	-0.042	-0.058	-0.042	-0.038	-0.041	-0.034
	VMP-8		-0.012	-0.009	0.000	-0.005	-0.005	-0.003	-0.001	0.569 ^(c)	-0.006 ^(c)	0.000	0.000	0.000	0.000	-0.001	-0.006	0.206	0.000	-0.001	0.000	0.000	0.000	NM	NM	-0.003	-0.004	NM	-0.006	-0.006	-0.005	-0.754	-0.649	-0.693

Notes:

- System began operation on July 31, 2020.

- Applied vacuum values shown are based on extraction point vacuum gauge readings. Flow rates shown are based on anemometer measurements taken at extraction points and converted to scfm.

- Variations in applied vacuums, flow rates, and sub-slab differential pressure may be attributable to a fluctuating shallow water table beneath the building, as well as occasional adjustments to inline valves for extraction points and makeup air valves for inline fans to optimize system performance. Valve settings are not indicated in this table.

a) Data from August 13 and September 11, 2020 are first and last rounds of performance monitoring conducted during 1-month startup phase, respectively. Refer to Construction Completion Report (Arcadis 2021) for full startup phase results.

b) For June 11, 2021, data shown in right column are after applied vacuum at extraction points EP-2A and EP-3B was increased via inline valve adjustments.

c) Positive sub-slab differential pressure measurement at VMP-8 on September 15, 2021, was likely attributable to water present beneath the slab. Initial VMP-8 measurement on September 24, 2021, also resulted in a positive value (0.179 iwc); the measurement shown (for VMP-8) on this date was taken following decreasing applied vacuum at extraction points via makeup air adjustment.

d) For December 13, 2021, data shown in right column are after applied vacuum at each extraction point was increased via makeup air adjustment. Background sub-slab differential pressure also measured with the SSD system off. Background measurements (not shown) ranged from -0.001 iwc (VMP-05 and VMP-06) to 0.004 iwc (VMP-03).

e) For March 29, 2022, data shown in right column are after the makeup air valve positions for fans F-100, F-200 and F-300 were adjusted. GES also measured background sub-slab differential pressure with the SSD system off. Background measurements ranged from -0.002 iwc (VMP-06) to 0.005 iwc (VMP-01 and VMP-02).

f) For December 29, 2022 data shown in the right column was recorded after the system was turned off and restarted. GES also measured background sub-slab differential pressure with the SSD system off. Background measurements ranged from 0.000 iwc (VMP-1, VMP-2, and VMP-4 through VMP-8) to 0.001 iwc (VMP-03).

g) For June 26, 2023, data shown in right column are after the applied vacuum at extraction points EP-1A, EP-1B, EP-2A, EP-2B, and EP-3A was increased via inline valve and makeup air adjustments.

h) For December 29, 2023, data shown in right column are after the applied vacuum at extraction points EP-1A, EP-1B, EP-2A, and EP-2B was decreased via makeup air adjustments. Based on post-adjustment data, the applied vacuum was returned to the previous setting (at start of day) for extraction points EP-1A and EP-1B prior to departure.

i) For December 29, 2023, access to extraction points EP-3A, EP-3B, and EP-3C, and vacuum monitoring points VMP-6, VMP-7, and VMP-8 not available.

j) Following initial round of performance monitoring shown for March 21, 2024, applied vacuum at extraction points EP-3A, EP-3B, and EP-3C was increased to 12.5 iwc via makeup air adjustment at fan F-300. No additional performance monitoring data collected after adjustment.

k) For June 19, 2024, data shown in right column are after the applied vacuum at extraction points EP-2A and EP-2B was increased via makeup air adjustment at fan F-200.

l) Data from August 16, August 22, and August 29, 2024, obtained as part of startup activities for the SSD expansion. Refer to Construction Completion Report for additional information.

m) For September 27, 2024, data shown in right column are after the applied vacuum was reduced at all extraction points via makeup air adjustments at fans F-100, F-200, and F-300. Fans F-200 and F-300 were left in the reduced vacuum setting and fan F-100 was returned to the vacuum setting upon arrival.

n) VMP-2 abandoned and replaced with VMP-2R as part of 2024 expansion activities. Measurements prior to August 2024 are from VMP-2.

Abbreviations:

iwc = inches of water column

NM = not measured

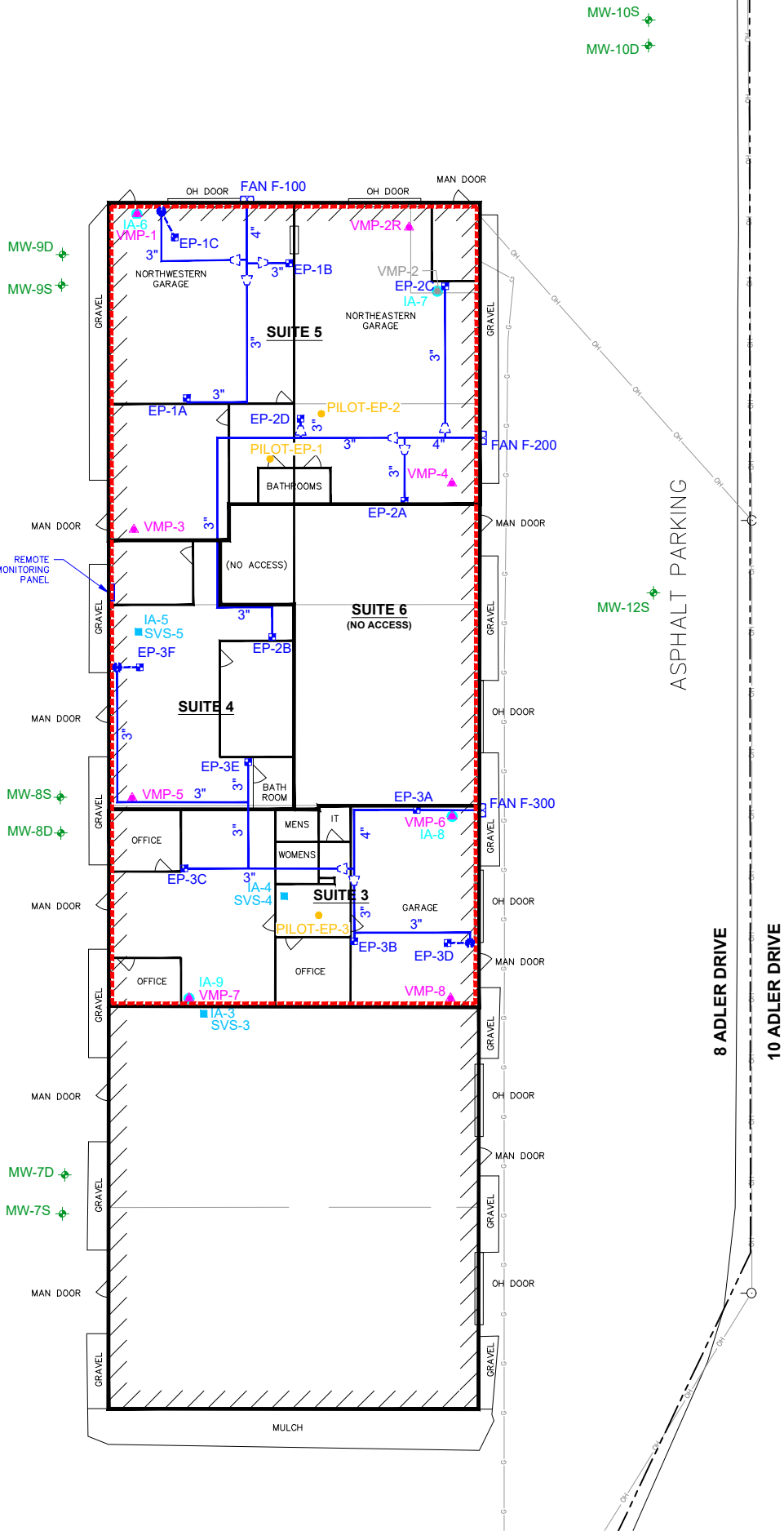
scfm = standard cubic feet per minute

SSD = sub-slab depressurization

6 ADLER DRIVE

8 ADLER DRIVE

ASPHALT PARKING



NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY YEC, INC. DATED AUGUST 2015 AT A SCALE OF 1" = 20'. ADDITIONAL BASEMAP DATA DIGITIZED FROM GOOGLE EARTH AERIAL PHOTO DATED 6/2/2011.
2. ALL LOCATIONS ARE APPROXIMATE NOT ALL BUILDING WALLS ARE SHOWN.

0 10 20
GRAPHIC SCALE

NYSDEC SITE NO. 734124 (NORTHERN CIRCUITS)
6 ADLER DRIVE, EAST SYRACUSE, NEW YORK
**OFF-SITE SUB-SLAB DEPRESSURIZATION
SYSTEM - 8 ADLER DRIVE**

SYSTEM LAYOUT



FIGURE
1

Attachment 1

OMM Log Sheets

OMM Log
Off-Site Sub-Slab Depressurization System (8 Adler Drive)
Northern Circuits (Site No. 734124)
6 Adler Drive, Dewitt, New York



Weather: Cloudy/Windy
Outdoor Temperature (F): 23

Date: 3/21/2024
Time: 8:36 AM
Inspector(s): Shannon McGowan
Jason Gutkowski

GENERAL

System running upon arrival? (Y/N): Yes
 System running upon departure? (Y/N): Yes
 Were any changes in system operation or configuration made during visit? (Y/N): Yes
If yes, document changes and re-measure or re-record affected parameters on another log sheet.
 Record electrical submeter reading (kWh): 00029362

EXTRACTION POINTS

ID	Vacuum Gauge at Riser (iwc)	Inline Valve Position (degrees) ^(a)	Air Velocity (feet per minute)	Notes/Observations (e.g., water, leaking, etc.)
EP-1A	-14	90	34	
EP-1B	-14.5	90	34	
EP-2A	-6	90	21	
EP-2B	-6	90	74	
EP-3A	-9	90	6	
EP-3B	-9	90	5	
EP-3C	-7.5	90	35	

(a) 90 degrees = 100% open, 0 degrees = 100% closed.

INLINE FANS

ID	Running (Y/N)	Vacuum Transmitter Reading (iwc) ^(b)	Makeup Air Valve Position (degrees) ^(c)
F-100	Yes	15	45
F-200	Yes	5.1	45
F-300	Yes	9.0	45

(b) Obtain reading from HMI screen on Remote Monitoring Panel

(c) Record position of valve handle.
 0 degrees = 100% closed
 90 degrees = 100% open

MONITORING POINTS

ID	Differential Pressure (iwc)	Indoor Air Temperature (F)
VMP-01	0.002	52.8
VMP-02	0.000	52.8
VMP-03	-0.083	52.8
VMP-04	-0.001	52.8
VMP-05	-0.001	52.8
VMP-06	-0.001	56.9
VMP-07	-0.008	62.5
VMP-08	-0.003	56.9

Indicate the make and model of the instrument used for differential pressure measurements: _____

GROUNDWATER MONITORING WELLS

ID	Depth to Water (feet below measuring point)
MW-8S	1.85
MW-9S	1.89
MW-12S	1.22

OMM Log
Off-Site Sub-Slab Depressurization System (8 Adler Drive)
Northern Circuits (Site No. 734124)
6 Adler Drive, Dewitt, New York

REMOTE MONITORING PANEL

	YES	NO	Notes
Is the red alarm-indicating light illuminated (if yes, specify)?	☐	☒	
Is the white power-indicating light illuminated?	☒	☐	
Are all HAND-OFF-AUTO switches in the auto position (if no, specify)?	☒	☐	
Is HMI screen providing normal functionality (e.g., able to navigate screens)?	☒	☐	
Low vacuum alarm tested successfully?	☒	☐	
High vacuum alarm tested successfully?	☒	☐	
Alarm email notification tested successfully?	☐	☒	Service to be updated
Power failure/battery backup tested successfully?	☒	☐	
Logged data downloaded successfully?	☐	☐	Not Applicable
Remote connection tested successfully?	☐	☒	Service to be updated

GENERAL SYSTEM INSPECTION

	YES	NO	Notes
Extraction risers in good condition?	☒	☐	
Conveyance piping in good condition?	☒	☐	
Inline fans/vertical discharges in good condition?	☒	☐	
Makeup air filters inspected and in good condition?	☐	☒	Need to replace F-100, F-200 and F-300 Air Filters
Vacuum monitoring points in good condition?		☐	

GENERAL SITE INSPECTION

	YES	NO	Notes
Any changes in building occupancy or tenants?	☐	☒	
Any active construction/renovation activities?	☐	☒	
Any new cracks or other floor openings (if yes, mark on figure and photograph)?	☐	☒	
Any openings in building foundation (e.g., western side of building) (if yes, mark on figure and photograph)?	☐	☒	
Any standing water inside building or outside building perimeter (if yes, mark on figure and photograph)?	☐	☒	

ADDITIONAL NOTES

Adjusted F-300 makeup air valve (i.e., more closed at ~30 degrees);

Remeasured:

EP-3A = 12.5 iwc, 50 ft/sec, 90 degrees

EP-3B = 12.5 iwc, 23 ft/sec, 90 digress

Adjusted high vacuum set point from 15.0 to 17.0

Vacuum transmitter for F-300 at RMP = 13.1 iwc

OMM Log
Off-Site Sub-Slab Depressurization System (8 Adler Drive)
Northern Circuits (Site No. 734124)
6 Adler Drive, Dewitt, New York



Weather: Sunny
Outdoor Temperature (F): 92

Date: 6/19/2024
Time: 10:21 AM
Inspector(s): Jason Gutkowski

GENERAL

System running upon arrival? (Y/N): Yes
System running upon departure? (Y/N): Yes
Were any changes in system operation or configuration made during visit? (Y/N): Yes
If yes, document changes and re-measure or re-record affected parameters on another log sheet.
Record electrical submeter reading (kWh) 00031394

EXTRACTION POINTS

ID	Vacuum Gauge at Riser (iwc)	Inline Valve Position (degrees) ^(a)	Air Velocity (feet per minute)	Notes/Observations (e.g., water, leaking, etc.)
EP-1A	-12.75	90	62	
EP-1B	-13.0	90	11	
EP-2A	-4.0	90	403	
EP-2B	-3.5	90	105	
EP-3A	-12.0	90	34	
EP-3B	-12.0	90	37	
EP-3C	-11.0	90	75	

(a) 90 degrees = 100% open, 0 degrees = 100% closed.

INLINE FANS

ID	Running (Y/N)	Vacuum Transmitter Reading (iwc) ^(b)	Makeup Air Valve Position (degrees) ^(c)
F-100	Yes	12.8	50
F-200	Yes	2	50
F-300	Yes	12.0	50

(b) Obtain reading from HMI screen on Remote Monitoring Panel

(c) Record position of valve handle.
0 degrees = 100% closed
90 degrees = 100% open

MONITORING POINTS

ID	Differential Pressure (iwc)	Indoor Air Temperature (F)
VMP-01	-0.002	84.8
VMP-02	-0.001	84.8
VMP-03	-0.079	84.8
VMP-04	-0.001	84.8
VMP-05	-0.003	80.2
VMP-06	-0.002	83.1
VMP-07	-0.09	74.8
VMP-08	-0.004	83.1

Indicate the make and model of the instrument used for differential pressure _____

GROUNDWATER MONITORING WELLS

ID	Depth to Water (feet below measuring point)
MW-8S	3.53
MW-9S	3.61
MW-12S	Not Measured; Car parked over the MW location

OMM Log
Off-Site Sub-Slab Depressurization System (8 Adler Drive)
Northern Circuits (Site No. 734124)
6 Adler Drive, Dewitt, New York

REMOTE MONITORING PANEL

	YES	NO	Notes
Is the red alarm-indicating light illuminated (if yes, specify)?	☐	☒	
Is the white power-indicating light illuminated?	☒	☐	
Are all HAND-OFF-AUTO switches in the auto position (if no, specify)?	☒	☐	
Is HMI screen providing normal functionality (e.g., able to navigate screens)?	☒	☐	
Low vacuum alarm tested successfully?	☒	☐	
High vacuum alarm tested successfully?	☒	☐	
Alarm email notification tested successfully?	☐	☒	
Power failure/battery backup tested successfully?	☒	☐	
Logged data downloaded successfully?	☐	☒	
Remote connection tested successfully?	☐	☒	

GENERAL SYSTEM INSPECTION

	YES	NO	Notes
Extraction risers in good condition?	☒	☐	
Conveyance piping in good condition?	☒	☐	
Inline fans/vertical discharges in good condition?	☒	☐	
Makeup air filters inspected and in good condition?	☒	☐	
Vacuum monitoring points in good condition?	☒	☐	

GENERAL SITE INSPECTION

	YES	NO	Notes
Any changes in building occupancy or tenants?	☐	☒	
Any active construction/renovation activities?	☐	☒	
Any new cracks or other floor openings (if yes, mark on figure and photograph)?	☐	☒	
Any openings in building foundation (e.g., western side of building) (if yes, mark on figure and photograph)?	☐	☒	
Any standing water inside building or outside building perimeter (if yes, mark on figure and photograph)?	☐	☒	

ADDITIONAL NOTES

Closed F-200 makeup air valve 100%, VT-201 = 9.1 iwc

ID	Vacuum Gauge at Riser (iwc)	Air Velocity (ft/sec)
EP-1A	-13	77
EP-1B	-12.75	7
EP-2A	-9	803
EP-2B	-9	252
EP-3A	-12	29
EP-3B	-12	111
EP-3C	-11	65

OMM Log
Off-Site Sub-Slab Depressurization System (8 Adler Drive)
Northern Circuits (Site No. 734124)
6 Adler Drive, Dewitt, New York



Weather: Sunny
Outdoor Temperature (F): 62 - 73

Date: 9/27/2024
Time: 9:25 AM
Inspector(s): Jason Gutkowski

GENERAL

System running upon arrival? (Y/N): No
 System running upon departure? (Y/N): Yes
 Were any changes in system operation or configuration made during visit? (Y/N):
 If yes, document changes and re-measure or re-record affected parameters on another log sheet.
 Record electrical submeter reading (kWh):

EXTRACTION POINTS

ID	Vacuum Gauge at Riser (iwc)	Inline Valve Position (degrees) ^(a)	Air Velocity (feet per minute)	Notes/Observations (e.g., water, leaking, etc.)
EP-1A	-13	45	73	
EP-1B	-13.5	45	15	
EP-1C	-15.5	90	47	
EP-2A	-17.25	90	42	
EP-2B	-17	90	327	
EP-2C	-15	90	46	
EP-2D	-15	90	75	
EP-3A	-9	90	28	Dug down 8 inches beneath F-300 and hit water at 7-8 inches
EP-3B	-9	90	73	
EP-3C	-8.25	90	87	
EP-3D	-8	45	29	
EP-3E	-8.2	45	73	
EP-3F	-8	45	3	

(a) 90 degrees = 100% open, 0 degrees = 100% closed.

INLINE FANS

ID	Running (Y/N)	Vacuum Transmitter Reading (iwc) ^(b)	Makeup Air Valve Position (degrees) ^(c)
F-100	Yes	-13.5	45
F-200	Yes	-18.1	45
F-300	Yes	-8.9	45

(b) Obtain reading from HMI screen on Remote Monitoring Panel

(c) Record position of valve handle.

0 degrees = 100% closed

90 degrees = 100% open

MONITORING POINTS

ID	Differential Pressure (iwc)	Indoor Air Temperature (F)
VMP-01	-0.004	69.8
VMP-02	-0.005	69.2
VMP-03	-0.834	70.1
VMP-04	-0.008	69.2
VMP-05	-0.025	71.9
VMP-06	-0.002	70.4
VMP-07	-0.038	71.2
VMP-08	-0.754	70.4

Indicate the make and model of the instrument used for differential pressure measurements: VelociCalc

GROUNDWATER MONITORING WELLS

ID	Depth to Water (feet below measuring point)
MW-8S	2.27
MW-9S	2.29
MW-12S	1.83

OMM Log
Off-Site Sub-Slab Depressurization System (8 Adler Drive)
Northern Circuits (Site No. 734124)
6 Adler Drive, Dewitt, New York

REMOTE MONITORING PANEL

	YES	NO	Notes
Is the red alarm-indicating light illuminated (if yes, specify)?	☐	☒	
Is the white power-indicating light illuminated?	☒	☐	
Are all HAND-OFF-AUTO switches in the auto position (if no, specify)?	☒	☐	
Is HMI screen providing normal functionality (e.g., able to navigate screens)?	☒	☐	
Low vacuum alarm tested successfully?	☒	☐	
High vacuum alarm tested successfully?	☒	☐	
Alarm email notification tested successfully?	☐	☒	
Power failure/battery backup tested successfully?	☒	☐	
Logged data downloaded successfully?	☐	☐	
Remote connection tested successfully?	☐	☒	

GENERAL SYSTEM INSPECTION

	YES	NO	Notes
Extraction risers in good condition?	☒	☐	
Conveyance piping in good condition?	☒	☐	
Inline fans/vertical discharges in good condition?	☒	☐	
Makeup air filters inspected and in good condition?	☒	☐	Changed all three fan filters (F-100, F-200, F-300)
Vacuum monitoring points in good condition?	☒	☐	

GENERAL SITE INSPECTION

	YES	NO	Notes
Any changes in building occupancy or tenants?	☒	☐	No occupancy in Building 3; Building 3 garage has new epoxy on floor
Any active construction/renovation activities?	☐	☒	
Any new cracks or other floor openings (if yes, mark on figure and photograph)?	☐	☒	
Any openings in building foundation (e.g., western side of building) (if yes, mark on figure and photograph)?	☐	☒	
Any standing water inside building or outside building perimeter (if yes, mark on figure and photograph)?	☐	☒	

ADDITIONAL NOTES

OMM Log
Off-Site Sub-Slab Depressurization System (8 Adler Drive)
Northern Circuits (Site No. 734124)
6 Adler Drive, Dewitt, New York



Weather: Rain
Outdoor Temperature (F): 45

Date: 12/11/2024
Time: 10:05 AM
Inspector(s): Jason Gutkowski

GENERAL

System running upon arrival? (Y/N): Yes
System running upon departure? (Y/N): Yes
Were any changes in system operation or configuration made during visit? (Y/N): No
If yes, document changes and re-measure or re-record affected parameters on another log sheet.
Record electrical submeter reading (kWh): 00034970

EXTRACTION POINTS

ID	Vacuum Gauge at Riser (iwc)	Inline Valve Position (degrees) ^(a)	Air Velocity (feet per minute)	Notes/Observations (e.g., water, leaking, etc.)
EP-1A	-13	45	204	
EP-1B	-13.5	45	199	
EP-1C	-13	90	299	
EP-2A	-9	90	258	
EP-2B	-8	90	89	
EP-2C	-7	90	14	
EP-2D	-8.5	90	263	
EP-3A	-7.5	90	30	
EP-3B	-7.5	90	93	
EP-3C	-7	90	36	
EP-3D	-6.75	45	50	
EP-3E	-7	45	39	
EP-3F	-7.2	45	48	

(a) 90 degrees = 100% open, 0 degrees = 100% closed.

INLINE FANS

ID	Running (Y/N)	Vacuum Transmitter Reading (iwc) ^(b)	Makeup Air Valve Position (degrees) ^(c)
F-100	Yes	-13.8	45
F-200	Yes	-8.8	45
F-300	Yes	-7.7	45

(b) Obtain reading from HMI screen on Remote Monitoring Panel

(c) Record position of valve handle.

0 degrees = 100% closed

90 degrees = 100% open

MONITORING POINTS

ID	Differential Pressure (iwc)	Indoor Air Temperature (F)
VMP-01	-0.005	62.1
VMP-02	-0.004	62.5
VMP-03	-0.816	62.8
VMP-04	-0.007	62.9
VMP-05	-0.032	55.7
VMP-06	-0.031	57.4
VMP-07	-0.034	67.3
VMP-08	-0.693	57.4

Indicate the make and model of the instrument used for differential pressure
VelociCalc

GROUNDWATER MONITORING WELLS

ID	Depth to Water (feet below measuring point)
MW-8S	0.89
MW-9S	1.11
MW-12S	0.32

OMM Log
Off-Site Sub-Slab Depressurization System (8 Adler Drive)
Northern Circuits (Site No. 734124)
6 Adler Drive, Dewitt, New York

REMOTE MONITORING PANEL

	YES	NO	Notes
Is the red alarm-indicating light illuminated (if yes, specify)?	☒	☐	Low vacuum at F-200
Is the white power-indicating light illuminated?	☒	☐	
Are all HAND-OFF-AUTO switches in the auto position (if no, specify)?	☒	☐	
Is HMI screen providing normal functionality (e.g., able to navigate screens)?	☒	☐	
Low vacuum alarm tested successfully?	☒	☐	
High vacuum alarm tested successfully?	☒	☐	
Alarm email notification tested successfully?	☐	☒	
Power failure/battery backup tested successfully?	☒	☐	
Logged data downloaded successfully?	☐	☒	
Remote connection tested successfully?	☐	☒	

GENERAL SYSTEM INSPECTION

	YES	NO	Notes
Extraction risers in good condition?	☒	☐	
Conveyance piping in good condition?	☒	☐	
Inline fans/vertical discharges in good condition?	☒	☐	
Makeup air filters inspected and in good condition?	☒	☐	
Vacuum monitoring points in good condition?	☒	☐	

GENERAL SITE INSPECTION

	YES	NO	Notes
Any changes in building occupancy or tenants?	☒	☐	Building 3 is now occupied
Any active construction/renovation activities?	☐	☒	
Any new cracks or other floor openings (if yes, mark on figure and photograph)?	☐	☒	
Any openings in building foundation (e.g., western side of building) (if yes, mark on figure and photograph)?	☐	☒	
Any standing water inside building or outside building perimeter (if yes, mark on figure and photograph)?	☐	☒	

ADDITIONAL NOTES
