LANGAN

DAILY STATUS REPORT

Prepared By: Alessandra Looman

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50	X	50-70		70-85		<85	

Langan Project No:	100849501	Project:	990 Rossville Ave	Date:	03/02/2022
NYSDEC BCP Site No:	C243043			Time:	8:00 – 13:30

Consultant:	**PERSONNEL ON SITE:**
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.	**Langan:** Alessandra Looman (Environmental) **Pennington Environmental, LLC (Pennington)**: AJ Benjamin, Laborers (4)

Site Activities

- Langan and Pennington identified locations within the exterior sub-header piping network exhibiting sloping (i.e., low-points/U-traps) issues.
- Pennington corrected sloping issues by adjusting pipe support brackets, as needed.
- Pennington installed Aerocel Stay-Seal with Protape (SSPT) tube insulation to all 2-inch and 4-inch exterior sub-header piping.
- Pennington installed drain plugs on the piping.

Community Air Monitoring Program (CAMP)

- Langan did not implement CAMP as no soil disturbance occurred.

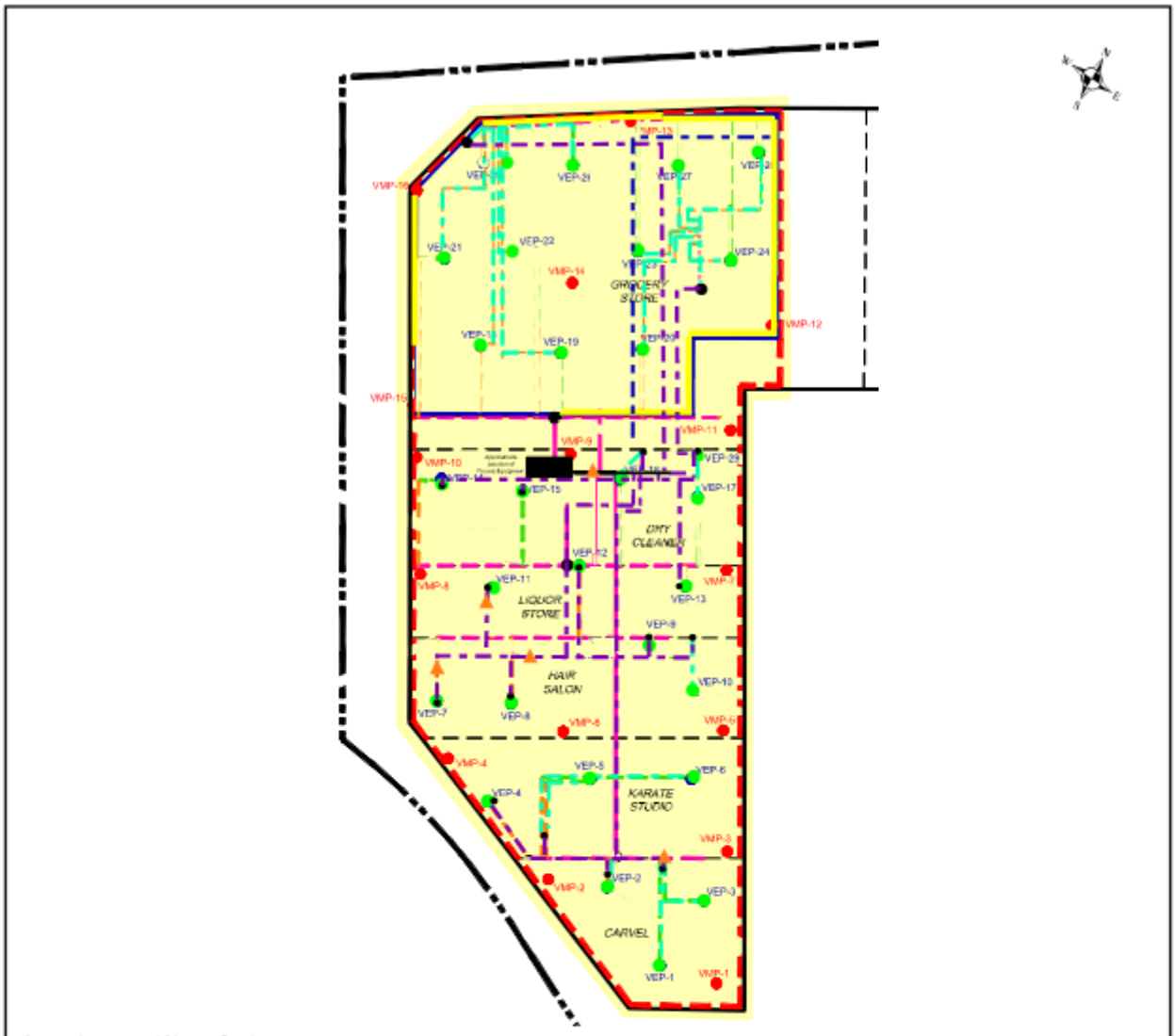
Problems Encountered

- Two locations exhibiting sloping issues will require the 4-inch black steel sub-header line near the roof penetration points to be cut down and PVC elbow reinstalled in order to achieve the appropriate pitch.
- One run of 4-inch PVC sub-header piping located adjacent to the process equipment was identified as a significant low spot in the system. This run will need to be cut and reinstalled above nearby lines, rather than below them.

Activities Scheduled

- Pennington will install exterior 6-inch main-header piping insulation and insulate all system elbows and joints.
- Pennington will cut and reinstall piping to correct the remaining slope issues.
- Following installation of piping insulation, Langan will restart the process equipment for long-term use.
- Pennington will continue installation of vacuum gauges and sample ports on interior well-line risers.
- Langan and Pennington will continue SSDS startup and system optimization, including a full round of vacuum gauging at all vapor monitoring points (VMPs) and all vapor extraction point (VEP) risers, following completion of exterior piping insulation and system restart.

SITE MAP (SSDS Installation)



Approximate and Not to Scale

LEGEND

- PROPERTY LINE
- EXISTING BUILDING OUTLINE
- INTERIOR WALL
- VEP-1 SSDS FULL-SCALE VEP
- VMP-1 SSDS FULL-SCALE VMP
- PROPOSED SSDS MITIGATION AREA
- APPROXIMATE BASEMENT EXTENTS
- COMPLETED VEP WELL POINT
- W WORK ZONE AIR MONITORING STATION
- WORK AREA
- EFFLUENT WATER DRAIN DRILLED
- INDIVIDUAL BELOW GRADE WELL LINE (SCH40 PVC)
- INDIVIDUAL ABOVE GROUND WELL LINE (2-INCH BLACK STEEL)
- INTERIOR SUBHEADER LINE (4-INCH BLACK STEEL)
- EXTERIOR SUBHEADER LINE (4-INCH SCH40 PVC)
- EXTERIOR MAIN HEADER LINE (6-INCH SCH40 PVC)
- ROOF PENETRATION LOCATION
- GAP SEALING COMPLETED
- COMPLETED WELL LINE
- COMPLETED SUBHEADER LINE
- ELECTRICAL CONDUITS

NOTES

1. Basemap taken from Full-Scale SSDS Manifold Layout prepared by Langan dated 25 November 2020.

2. SSDS design has been modified to incorporate additional roof penetrations, relocate all interior subheader lines to the building exterior, and minimize the amount of interior above-ground horizontal piping.

3. Proposed horizontal above-grade interior piping associated with VEP-5 and VEP-6 was redesigned to run below-grade.

4. Proposed horizontal below-grade interior piping associated with VEP-16 and VEP-17 was redesigned to run to the northern wall of the dry cleaner tenant space.

5. Interior well-line and roof penetration locations within the grocery store tenant space basement have been modified based on field conditions.

Photo Log

Photo 1 – View of Pennington correcting pipe sloping issues, facing south.	
Photo 2 – View of Pennington installing insulation to 4-inch sub-header piping, facing northeast.	

Photo 3 – View of one location where 4-inch black steel sub-header line will need to be cut down to achieve the appropriate pitch, facing southeast.	
Photo 4 – View of insulated 2-inch and 4-inch sub-header piping, facing north.	

LANGAN

DAILY STATUS REPORT

Prepared By: Alessandra Looman

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85		<85	

Langan Project No:	100849501	Project:	990 Rossville Ave	Date:	03/07/2022
NYSDEC BCP Site No:	C243043			Time:	8:00 – 14:00

Consultant:	**PERSONNEL ON SITE:**
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.	**Langan:** Alessandra Looman (Environmental) **Pennington Environmental, LLC (Pennington)**: AJ Benjamin, Laborers (2)

Site Activities

- Pennington installed Aerocel Stay-Seal with Protape (SSPT) tube insulation to all 6-inch exterior header piping.
- Pennington corrected remaining sloping issues by cutting down and re-installing select 4-inch steel and 2-inch PVC vertical piping penetrating the roof.
- Pennington cut and reinstalled the 4-inch PVC sub-header piping located adjacent to the process equipment to run above nearby lines rather than below them, to eliminate a low spot in the system.
- Pennington continued installation of vacuum gauges and sample ports on interior well-line risers in the grocery basement, dry cleaners, liquor store, and ice cream shop.

Community Air Monitoring Program (CAMP)

- Langan did not implement CAMP as no soil disturbance occurred.

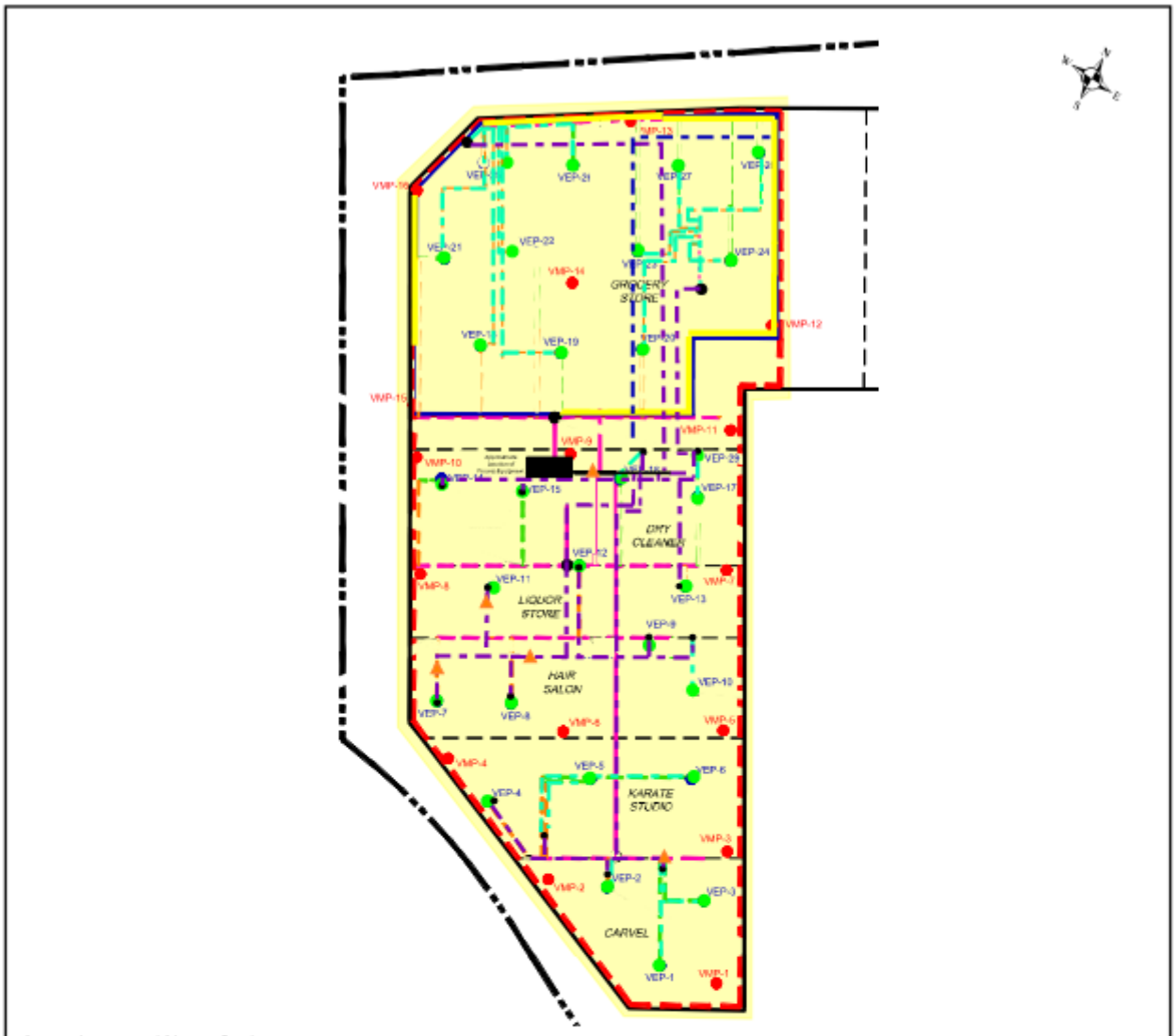
Problems Encountered

- Water was observed exiting system pipes as certain sections were cut for re-leveling. Pennington opened the in-line filter housing to investigate. A significant volume of water was collected within the in-line filter housing and poured out when opened. After all water was drained the filter housing was re-secured. The source of this collecting water is unknown at this time and is being investigated further.
- The hair salon was closed and inaccessible today; installation of vacuum gauges and sample ports on interior well-line risers was not completed in this tenant space.
- Interior well-line risers in the Taekwondo school require taps be drilled prior to installation of vacuum gauges and sample ports in this tenant space.

Activities Scheduled

- Pennington will finish installation of vacuum gauges and sample ports on interior well-line risers in the hair salon and Taekwondo school.
- Pennington will insulate all system elbows and joints with tape or similar, as needed.
- Langan and Pennington will continue SSDS startup and system optimization, including a full round of vacuum gauging at all vapor monitoring points (VMPs) and all vapor extraction point (VEP) risers, following completion of remaining installation items and system restart.

SITE MAP (SSDS Installation)



Approximate and Not to Scale

LEGEND

- PROPERTY LINE
- EXISTING BUILDING OUTLINE
- INTERIOR WALL
- VEP-1 SSDS FULL-SCALE VEP
- VMP-1 SSDS FULL-SCALE VMP
- PROPOSED SSDS MITIGATION AREA
- APPROXIMATE BASEMENT EXTENTS
- COMPLETED VEP WELL POINT
- W WORK ZONE AIR MONITORING STATION
- WORK AREA
- EFFLUENT WATER DRAIN DRILLED
- INDIVIDUAL BELOW GRADE WELL LINE (SCH40 PVC)
- INDIVIDUAL ABOVE GROUND WELL LINE (2-INCH BLACK STEEL)
- INTERIOR SUBHEADER LINE (4-INCH BLACK STEEL)
- EXTERIOR SUBHEADER LINE (4-INCH SCH40 PVC)
- EXTERIOR MAIN HEADER LINE (6-INCH SCH40 PVC)
- ROOF PENETRATION LOCATION
- GAP SEALING COMPLETED
- COMPLETED WELL LINE
- COMPLETED SUBHEADER LINE
- ELECTRICAL CONDUITS

NOTES

1. Basemap taken from Full-Scale SSDS Manifold Layout prepared by Langan dated 25 November 2020.

2. SSDS design has been modified to incorporate additional roof penetrations, relocate all interior subheader lines to the building exterior, and minimize the amount of interior above-ground horizontal piping.

3. Proposed horizontal above-grade interior piping associated with VEP-5 and VEP-6 was redesigned to run below-grade.

4. Proposed horizontal below-grade interior piping associated with VEP-16 and VEP-17 was redesigned to run to the northern wall of the dry cleaner tenant space.

5. Interior well-line and roof penetration locations within the grocery store tenant space basement have been modified based on field conditions.

Photo Log

Photo 1 – View of insulated 6-inch header piping, facing southeast.	
Photo 2 – View of one location where 4-inch black steel sub-header line was cut down to achieve the appropriate pitch, facing northwest.	

Photo 3 – View of cut and reinstalled 4-inch PVC sub-header piping, now running above nearby lines rather than below them, facing northwest.	
Photo 4 – View of installed vacuum gauge and sample port on interior well-line riser, facing west.	

LANGAN

DAILY STATUS REPORT

Prepared By: Alessandra Looman

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85		<85	

Langan Project No:	100849501	Project:	990 Rossville Ave	Date:	03/16/2022
NYSDEC BCP Site No:	C243043			Time:	8:00 – 16:00

Consultant:	**PERSONNEL ON SITE:**
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.	**Langan:** Alessandra Looman (Environmental), Linhan Yang (Environmental) **Pennington Environmental, LLC (Pennington)**: AJ Benjamin

Site Activities

- Pennington insulated system elbows and joints with insulation tape.
- Pennington installed vacuum gauges and sample ports on interior well-line risers in the hair salon and Taekwondo studio.
- Langan performed the SSDS pre-startup inspection and shakedown/startup procedures.
- Langan completed a round of vacuum gauging at all vapor extraction points (VEPs) and vacuum monitoring points (VMPs).
- Langan tested and confirmed functionality of the Sensaphone wireless auto-dialer system.
- System was left operational upon departure of the site.

Community Air Monitoring Program (CAMP)

- Langan did not implement CAMP as no soil disturbance occurred.

Problems Encountered

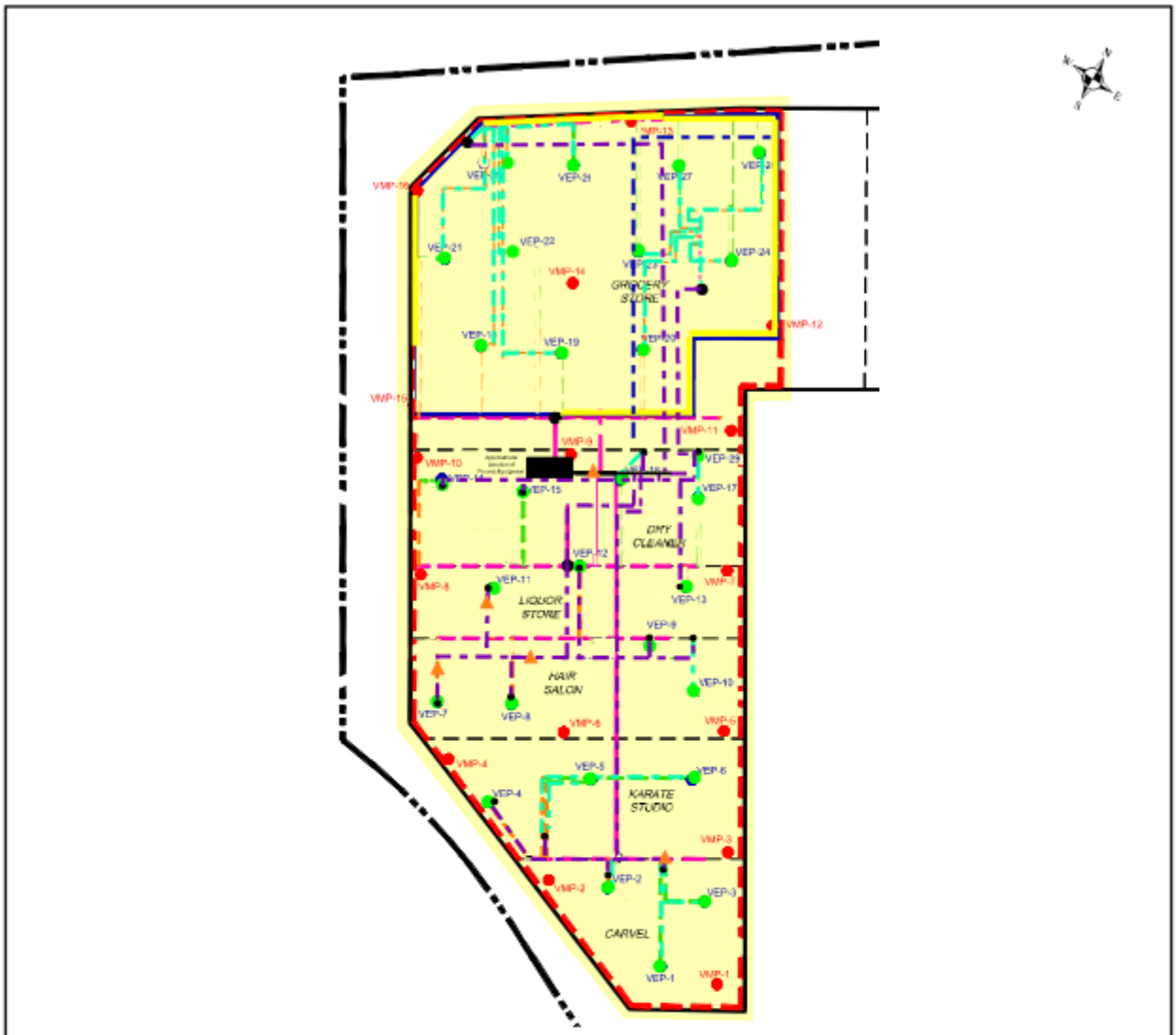
- The following VMPs require re-drilling due to borehole collapse and/or possible concrete blockage:
  - VMP-1, VMP-2, VMP-4, VMP-5, VMP-6, VMP-9, VMP-12
- VMP-10 was not installed or is otherwise unable to be located.
- VEP-2 requires vacuum gauge and sample port to be installed.
- The valve serving the sub-header including VEP-7 through VEP-12 is broken and requires repair/replacement (stuck in closed position). As such, the VEPs on this leg of the system were unable to be tested.
- Air leaks were observed at the following VEPs:
  - VEP-14 (leaking air at base of well)
  - VEP-17 (well appears okay; trench concrete patch seal is leaking, needs additional caulking or similar)
  - VEP-29 (leaking air at base of well; already attempted to seal, but leak persists)

Consultant:	**PERSONNEL ON SITE:**
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.	**Langan:** Alessandra Looman (Environmental), Linhan Yang (Environmental) **Pennington Environmental, LLC (Pennington)**: AJ Benjamin

Activities Scheduled

- Pennington will re-drill the VMPs exhibiting borehole collapse.
- Pennington will install VMP-10 in the rear of the dry cleaner tenant space.
- Pennington will install a vacuum gauge and sample port on the VEP-2 interior well-line riser in Carvel.
- Pennington will repair/replace the valve serving the sub-header including VEP-7 through VEP-12.
- Langan and Pennington will continue SSDS startup and system optimization, including a full round of vacuum gauging at all VMPs and VEPs, following completion of remaining installation items.

SITE MAP (SSDS Installation)



Approximate and Not to Scale

LEGEND

- PROPERTY LINE
- EXISTING BUILDING OUTLINE
- INTERIOR WALL
- VEP-1 SSDS FULL-SCALE VEP
- VMP-1 SSDS FULL-SCALE VMP
- PROPOSED SSDS MITIGATION AREA
- APPROXIMATE BASEMENT EXTENTS
- COMPLETED VEP WELL POINT
- W WORK ZONE AIR MONITORING STATION
- WORK AREA
- EFFLUENT WATER DRAIN DRILLED
- INDIVIDUAL BELOW GRADE WELL LINE (SCH40 PVC)
- INDIVIDUAL ABOVE GROUND WELL LINE (2-INCH BLACK STEEL)
- INTERIOR SUBHEADER LINE (4-INCH BLACK STEEL)
- EXTERIOR SUBHEADER LINE (4-INCH SCH40 PVC)
- EXTERIOR MAIN HEADER LINE (6-INCH SCH40 PVC)
- ROOF PENETRATION LOCATION
- GAP SEALING COMPLETED
- COMPLETED WELL LINE
- COMPLETED SUBHEADER LINE
- ELECTRICAL CONDUITS

NOTES

1. Basemap taken from Full-Scale SSDS Manifold Layout prepared by Langan dated 25 November 2020.

2. SSDS design has been modified to incorporate additional roof penetrations, relocate all interior subheader lines to the building exterior, and minimize the amount of interior above-ground horizontal piping.

3. Proposed horizontal above-grade interior piping associated with VEP-5 and VEP-6 was redesigned to run below-grade.

4. Proposed horizontal below-grade interior piping associated with VEP-16 and VEP-17 was redesigned to run to the northern wall of the dry cleaner tenant space.

5. Interior well-line and roof penetration locations within the grocery store tenant space basement have been modified based on field conditions.

Photo Log

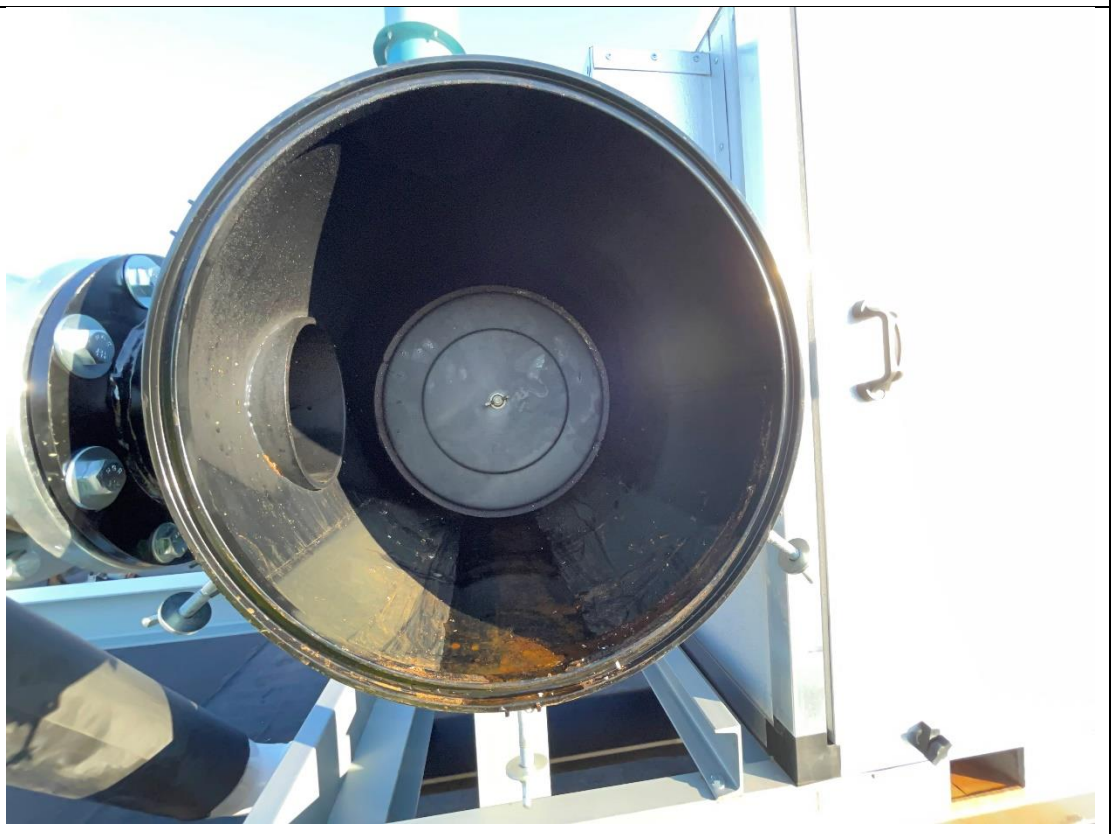
Photo 1 – View of system elbows insulated with tape, facing west.	
Photo 2 – View of air filter housing; no additional water accumulation observed prior to system startup, facing northwest.	

Photo 3 – View of SSDS control panel screens at system startup, facing southwest.	
Photo 4 – From left to right, view of VEP-29 (leaking air at base of individual well-line), and VEP-17 (leaking air at trench concrete patch), facing northwest.	

LANGAN

DAILY STATUS REPORT

Prepared By: Alessandra Looman

WEATHER	Snow		Rain	X	Overcast	X	Partly Cloudy		Bright Sun	
TEMP.	< 32		32-50	X	50-70		70-85		<85	

Langan Project No:	100849501	Project:	990 Rossville Ave	Date:	03/23/2022
NYSDEC BCP Site No:	C243043			Time:	7:45 – 17:30

Consultant:	**PERSONNEL ON SITE:**
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.	**Langan:** Alessandra Looman (Environmental) **Pennington Environmental, LLC (Pennington)**: AJ Benjamin and crew (2)

Site Activities

- Pennington replaced the valve serving the sub-header including VEP-7 through VEP-12.
- Pennington patched air leaks at VEPs and concrete trench using DRYLOK® Pourable Masonry Crack Filler in the dry cleaner tenant space.
- Pennington re-drilled the VMPs exhibiting borehole collapse in several tenant spaces, and installed VMP-10 in the rear of the dry cleaner tenant space.
- Pennington installed a vacuum gauge and sample port on the VEP-2 interior well-line riser in Carvel.
- Langan performed the SSDS pre-startup inspection and shakedown/startup procedures.
- Langan completed a round of vacuum gauging at all vapor extraction points (VEPs) and vacuum monitoring points (VMPs).
- System was left operational upon departure of the site.

Community Air Monitoring Program (CAMP)

- Langan did not implement CAMP as no soil disturbance occurred.

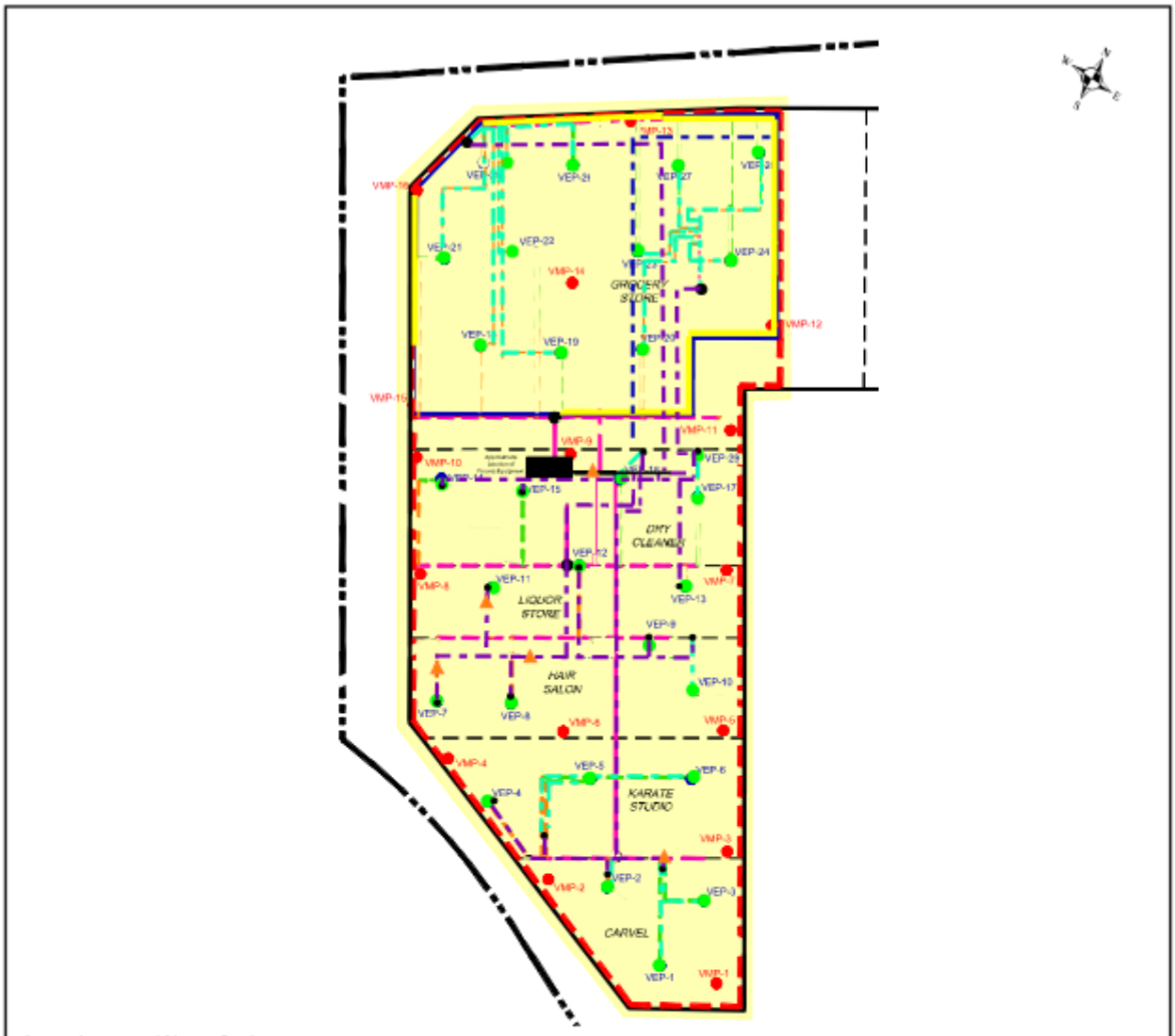
Problems Encountered

- None.

Activities Scheduled

- Pennington will install a vacuum gauge and sample port on the VEP-7 interior well-line riser in the salon tenant space.
- Langan will continue SSDS startup and system optimization, including a full round of vacuum gauging at all VMPs and VEPs and soil vapor/indoor air sampling.

SITE MAP (SSDS Installation)



Approximate and Not to Scale

LEGEND

- PROPERTY LINE
- EXISTING BUILDING OUTLINE
- INTERIOR WALL
- VEP-1 SSDS FULL-SCALE VEP
- VMP-1 SSDS FULL-SCALE VMP
- PROPOSED SSDS MITIGATION AREA
- APPROXIMATE BASEMENT EXTENTS
- COMPLETED VEP WELL POINT
- W WORK ZONE AIR MONITORING STATION
- WORK AREA
- EFFLUENT WATER DRAIN DRILLED
- INDIVIDUAL BELOW GRADE WELL LINE (SCH40 PVC)
- INDIVIDUAL ABOVE GROUND WELL LINE (2-INCH BLACK STEEL)
- INTERIOR SUBHEADER LINE (4-INCH BLACK STEEL)
- EXTERIOR SUBHEADER LINE (4-INCH SCH40 PVC)
- EXTERIOR MAIN HEADER LINE (6-INCH SCH40 PVC)
- ROOF PENETRATION LOCATION
- GAP SEALING COMPLETED
- COMPLETED WELL LINE
- COMPLETED SUBHEADER LINE
- ELECTRICAL CONDUITS

NOTES

1. Basemap taken from Full-Scale SSDS Manifold Layout prepared by Langan dated 25 November 2020.

2. SSDS design has been modified to incorporate additional roof penetrations, relocate all interior subheader lines to the building exterior, and minimize the amount of interior above-ground horizontal piping.

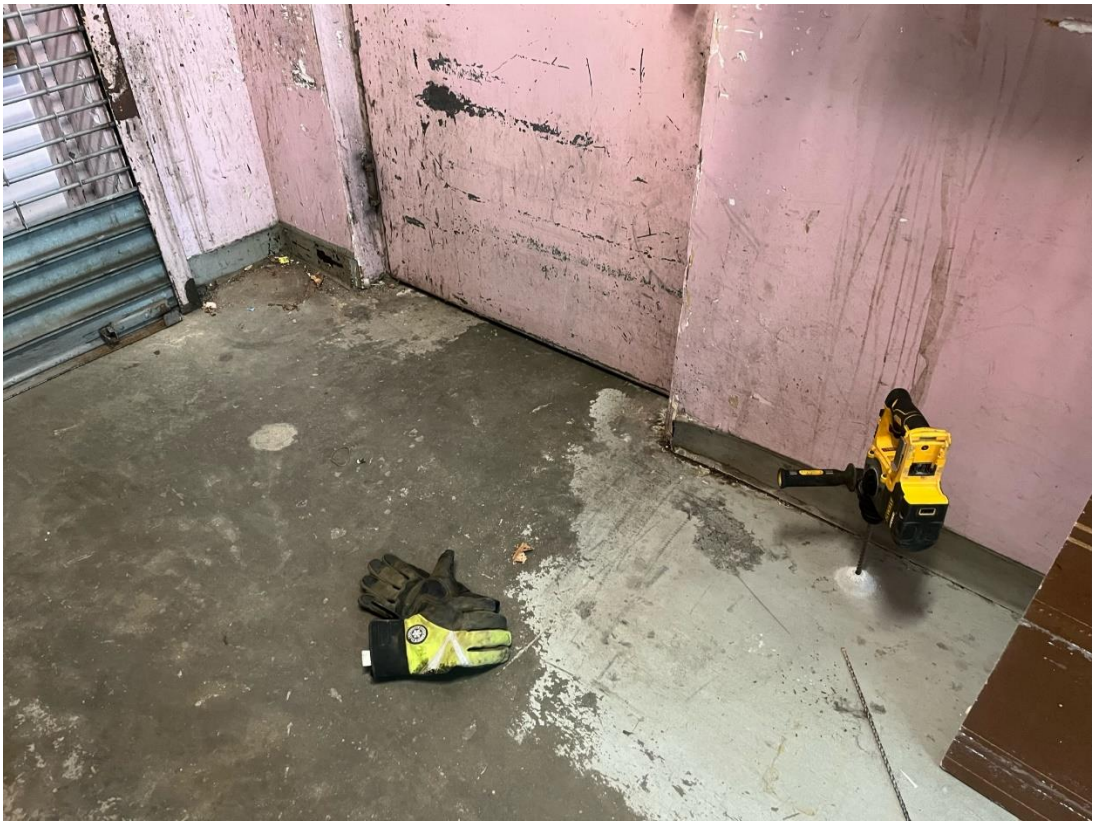
3. Proposed horizontal above-grade interior piping associated with VEP-5 and VEP-6 was redesigned to run below-grade.

4. Proposed horizontal below-grade interior piping associated with VEP-16 and VEP-17 was redesigned to run to the northern wall of the dry cleaner tenant space.

5. Interior well-line and roof penetration locations within the grocery store tenant space basement have been modified based on field conditions.

Photo Log

Photo 1 – View of new valve installed on the sub-header line serving VEP-7 through VEP-12, facing north.	
Photo 2 – View of patched air leaks at VEP-29 (left), VEP-17 (right), and concrete trench in the dry cleaner tenant space, facing northwest.	

Photo 3 – View of VMP-10 being installed in the rear of the dry cleaner tenant space, facing west.	
Photo 4 – View of Pennington drilling to install a vacuum gauge and sample port on VEP-2 in Carvel, facing northwest.