

# Additional Site Investigation Work Plan

for

Bright Cleaners Tenant Space 7249 South 76th Street Franklin, Milwaukee County, Wisconsin

> DNR FID #241928940 DNR BRRTS #02-41-580017

> > October 28, 2020

Apex Project No. PECO\_2017-101

Prepared for:

Franklin Station LLC, c/o Phillips Edison & Company 11501 Northlake Drive Cincinnati, Ohio 45249



October 28, 2020

Mr. Joseph Martinez
State of Wisconsin
Department of Natural Resources
Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-3128

Re: Work Plan for Additional Site Investigation Bright Cleaners Tenant Space 7249 South 79<sup>th</sup> Street, Franklin, Wisconsin Wisconsin DNR Facility Identification #241928940 Wisconsin DNR BRRTS Activity #02-41-580017

Dear Mr. Martinez:

Franklin Station LLC retained Apex to prepare this Work Plan for additional Site Investigations for the dry cleaner tenant space at 7249 South 76th Street in Franklin, Wisconsin. This tenant space is located within Franklin Centre, a multi-tenant retail strip mall. Enclosed is Apex's Site Investigation Work Plan

If you have any questions regarding our findings, please contact Steve Newlin at (847) 956-8589 x3201. Thank you for attention to this matter.

Respectfully Submitted,

**Apex Companies, LLC** 

Jens Allan

Jane Allan

Senior Project Manager

Steve Newlin

Senior Project Manager

Steve 7. Newlin

cc: Mr. Tom Meyers, Franklin Station LLC

Attachments

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# **ATTACHMENT**

DNR Letter dated August 22, 2020



# ADDITIONAL SITE INVESTIGATION WORK PLAN FRANKLIN CLEANERS TENANT SPACE, FRANKLIN CENTRE 7249 SOUTH 76<sup>TH</sup> STREET FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

#### 1.0 BACKGROUND

Franklin Station LLC (Client) retained Apex Companies, LLC (Apex) to prepare this work plan in association with the former dry cleaner tenant space at 7249 South 76th Street in Franklin, Wisconsin (the Site). In response to a release of chlorinated volatile organic compounds (cVOCs), Apex designed a soil vapor extraction (SVE) system intended to draw the soil-vapor from below the floor slab in the areas of soil-gas exceedances by creating a vacuum beneath the slab which reduced potential vapor intrusion from the sub-slab to indoor air, and reduce soil contamination.

After operation of the SVE system and the resampling of the soil and vapor beneath the floor slab, Franklin Station LLC submitted a Closure Request to the DNR dated May 2020. As directed by the Wisconsin Department of Natural Resources (DNR), in the attached letter dated August 22, 2020, additional site investigations are required to confirm the SVE system has fully remediated the Site.

#### 2.0 RESPONSE TO DNR COMMENTS

# 1. Preferential Migration Pathway Assessment

Additional assessment of utilities is necessary to complete the site investigation. Complete an assessment to determine whether utilities located at the site are acting as a source of contamination and/or a preferential migration pathway. Provide the location of all floor drains located within the former Bright Cleaners tenant space and the location of utility laterals within the former Bright Cleaners tenant space and adjacent tenant spaces.

The only utilities beneath the floor slab within the tenant space are a floor drain (sanitary line) and a water line that feeds the sink and toilet within the bathroom at the back of the store. Apex proposes to collect an additional soil sample and sub-slab vapor sample in the vicinity of the floor drain. The attached figure shows the floor drain and proposed sample location.

## 2. Soil

Soil samples collected to date have not identified any chlorinated volatile organic compounds (CVOCs) at concentrations in exceedance of regulatory standards. However, the DNR is unable to determine whether the soil investigation is complete. The results of the preferential migration pathway assessment requested above should be evaluated to determine whether soil samples collected to date were collected in appropriate locations and whether additional soil investigation is necessary. The collection of soil samples HA-1, HA-2, and HA-3 has not been documented other than in the closure report. Documentation of these samples along with all other samples collected should be included in a comprehensive Site Investigation Report (SIR). For any soil borings completed to collect soil samples, the DNR requests the completion and submittal of soil boring logs.



See response to comment 1. A soil sample will be collected adjacent to the bathroom floor drain. Soil boring logs will be provided with the updated Site Investigation report (SIR), along with documentation of the collection of soil samples HA-1, HA-2 and HA-3.

#### 3. Groundwater

Groundwater samples collected from permanent monitoring wells to date have not identified any contaminants at concentrations in exceedance of regulatory standards. However, the DNR has determined the groundwater investigation is incomplete, because groundwater samples have not been collected beneath the former Bright Cleaners tenant space to investigate the potential contamination in/near the identified source area and along preferential migration pathways. Install a monitoring well within the former Bright Cleaners tenant space near the location of the former dry-cleaning machine. Additionally, the results of the preferential migration pathway assessment and potential soil sampling requested above should be evaluated to determine whether groundwater samples collected to date were collected in appropriate locations and whether additional monitoring wells are needed. For any monitoring wells installed, the DNR requests the completion and submittal of soil boring logs, as well as the collection of soil samples.

Given access into the store with a rig is not available, the extremely stiff soil encountered during previous investigations and the fact that the store is currently occupied, make it infeasible to collect a groundwater sample from beneath the store.

# 4. Vapor

Sub-slab vapor samples collected at the site identified PCE at a concentration exceeding the small-commercial VRSL. An SSDS was installed within the former Bright Cleaners tenant space and actively operated from September 2018 to December 2018. The SSDS components are still in place, but the system has not operated actively since December 2018. Sub-slab vapor samples collected after the SSDS was shut down have not identified any small-commercial VRSL exceedances. Your environmental consultant, Apex, stated, "The vapor contamination has been addressed by the operation of the SVE (soil vapor extraction) System. The confirmatory vapor samples collected after the operation of the SVE System demonstrate that the system effectively lowered the VOCs beneath the floor slab to concentrations below current standards." The DNR has the following comments/requests regarding the vapor activities:

a) The post-SSDS shut down vapor data has not been submitted to the DNR other than in the case closure request. These sampling events should be documented in a comprehensive SIR. The report should include a description of the status of the SSDS during these sampling events, including when the fan was shut off and whether the extraction pipes were capped prior to sampling.

A SIR will be prepared upon the completion of the additional investigations proposed herein are complete.



b) The DNR letter, Review of Revised Remedial Action Options and Design Report, dated October 5, 2018, states "To determine if the system is not required any longer, shut fan(s) off. Then collect at least three rounds of sub-slab samples (first samples collected 2 to 4 weeks after shut-down; second samples collected 2 to 6 months after shut-down; third samples collected within 1 year after shut-down; and at least two of the samples collected during heating season). See: http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf; App. F."

This requirement has not been satisfied. Two rounds of post-SSDS shut down sub-slab vapor samples were collected from SV-1 and SV-7. The concentrations in these sampling rounds indicate the resulting trend and condition are unstable. To determine whether the SSDS is no longer needed, collect an additional round(s) of sub-slab vapor samples at SV-1, SV-4, and SV-7. In addition, collect a concurrent indoor-air sample from the former Bright Cleaners tenant space. The analysis of these samples should be limited to the contaminants of concern.

A third round of sub-slab sampling with concurrent sampling of indoor air will be performed and presented in the SIR.

c) Sub-slab vapor sample locations SV-5 and SV-6 are used to delineate the extent of vapor contamination. These locations were sampled once in 2017. Collect an additional round(s) of sub-slab vapor samples along with concurrent indoor-air samples from these locations to confirm vapor concentrations are below regulatory standards. If these sampling ports have been removed, the DNR requests that you install sampling ports closer to the wall which separates these tenant spaces from the dry-cleaning tenant space. The analysis of these samples should be limited to the contaminants of concern.

SV-5 and SV-6 will be resampled and concurrent indoor air samples collected as part of the additional sub-slab vapor sampling.

d) The DNR requests that you cap the exhaust pipes for a minimum of two weeks prior to conducting the vapor sampling requested above. The purpose of this is to aid in determining whether the inactive SSDS is impacting vapor conditions at the site.

Two weeks prior to conducting the additional sub-slab vapor sampling, Apex will cap the exhaust pipe of the SVE system with a PVC cap and duct tape.

e) Collect a background ambient air sample concurrent with the indoor-air sampling requested above. The analysis of this sample(s) should be limited to the contaminants of concern.

During indoor air sampling, an ambient outdoor air sample will be collected.

f) Provide details regarding the HVAC operation in the former Bright Cleaners tenant space and adjacent tenant spaces. Clarify whether the HVAC system is currently operating and whether it was operating during previous vapor sampling events. Evaluate the potential for the HVAC system(s) to distribute contaminants throughout the facility.



The HVAC system runs through ductwork above the drop ceiling and each store has a separate HVAC unit. Given that the previous indoor air sample did not detect cVOCs, the HVAC system would not be a potential distributer of contaminants throughout the facility.

g) The DNR requests that you indicate the status of the SSDS during sampling events on the vapor analytical table. For example, indicate whether the sample was collected prior to, or after, the installation of the SSDS and whether the system was actively operating at the time of sampling.

The SVE system was not active during any of the sub-slab vapor sampling events. The first round of sampling was conducted before the SVE system operation. Vapor analytical tables provided in the updated SIR will specify whether samples were pre-SVE or post-SVE system sample results.

h) The leak testing (shut-in test) conducted on the sampling train between the sample probe and the sample container does not appear to be in accordance with DNR recommendations. The DNR requests that you conduct future shut-in tests in accordance with the DNR procedures contained in the DNR publication, Sub-Slab Vapor Sampling Procedures (RR-986).

The leak testing performed during the previous sub-slab sampling was the water dam method, which is outlined in RR-986.

#### 3.0 METHODOLOGY

## Air and Sub-Slab Sampling/Analysis

Two weeks after capping the exhaust pipe of the SVE system, Apex will collect six soil-gas samples immediately below the concrete floor slab in and adjacent to the former dry cleaner tenant space. One soil-gas sample will be collected from the following locations shown in Figure 1:

SV-1, SV-4, SV-5, SV-6, SV-7 and proposed SV-8 adjacent to bathroom floor drain.

The probes will be installed by drilling a small diameter hole (5/8-inch) through the concrete slab into the underlying gravel-aggregate layer, approximately nine inches below the top of the concrete floor. Then a 1-inch diameter hole will be drilled in the same location to approximately ½-inch below the top of the concrete floor for leak testing. The hole will be cleared of any debris prior to installing the soil gas probe. The soil gas probes consisted of a stainless-steel MIP adapter/compression coupling, covered with a silicone tube, which will be inserted and seated firmly into the 5/8-inch diameter hole drilled through the concrete slab.

Prior to sample collection, leak tests will be performed on the sample probes by mechanical means using the larger diameter hole as a water dam. The annulus of the 1-inch hole will be filled with distilled water and monitored for fluctuations prior to and during sampling to verify that a leak has not occurred.

The laboratory-supplied regulator assembly will be attached to the Summa canister and a 3-foot section of 0.25-inch Teflon-lined polyethylene tubing will be attached to the regulator with Swagelock® fittings. A shut-in test will be performed on the sample train by connecting the tubing to a syringe and plunger. With the Summa ® canister valve closed, a vacuum of approximately 20 inches of mercury



will be applied to the sample train and maintained for 30 seconds. The pressure will be observed to confirm the pressure gauge remains stable for the duration of the test.

Additionally, the sub-slab gas probes will be purged a minimum of three probe volumes of air from the sampling media to ensure representative samples of sub-slab soil gas and field screened for volatile organic emissions using a PID equipped with a 10.6 eV PID lamp.

Upon successful leak test completion and probe purging/screening, sub-slab soil gas samples will be collected using batch-certified 6-liter Summa® canisters (evacuated stainless steel canisters) with (30-minute) flow control valves with a flow rate of 200 milliliters per minute (mL/min). At each of the soil vapor probe locations, the Summa canister will be connected to the sample probe and the regulator valve will be opened. The initial time and vacuum pressure will be recorded and monitored throughout sample collection. Chain of custody documentation will be maintained throughout the sample handling process. Results of the field screening, purge volumes, leak test observations, sampling intervals, initial and final vacuum pressures and laboratory-supplied equipment identification numbers will be summarized on sub-slab sampling logs.

Soil-gas samples will be analyzed for the target analytes (cVOCs) by EPA Method TO-15. The soil-gas analysis will be performed by a National Environmental Laboratory Accreditation Conference certified laboratory.

The results of the soil-gas analysis will be compared to sub-slab Vapor Action Levels (VALs) for small and large commercial property use based on the USEPA VISL with an excess lifetime cancer risk of  $1 \times 10^{-5}$  in accordance with WAC 716.

In addition to sub-slab sampling, Apex will use laboratory supplied 6-liter summa canisters to collect one indoor air each in the former dry cleaner and adjacent tenant spaces and one ambient outdoor air samples for analysis of cVOCs by EPA Method TO-15. One summa canister will be in the central portion of the store and another outside the back door of the store. The regulator valves will then be opened. The initial time and vacuum pressure will be recorded and monitored throughout sample collection.

## Soil Sampling/Analysis

In order to assess potential migration of cVOCs via preferential pathways, Apex will core a hole in the floor slab adjacent to the floor drain in the bathroom in the back of the store. A hand auger will then be used to collect a sample of the native clay from beneath the gravel base coarse. The sample will be placed in laboratory vials and jars. The sample will be maintained on ice under chain-of-custody control for delivery to the laboratory. The sample will be analyzed for VOCs by EPA Method 5030/8260.

# 4.0 SITE INVESTIGATION REPORT (SIR)

Upon receipt of the analytical results, Apex will prepare a SIR that details the field operations and summarizes the laboratory results for the vapor, air and soil samples relative to the appropriate



standards. The report will incorporate the methodology and results of the previous investigations and the new data generated from the proposed work herein.	

APEX



**State of Wisconsin DEPARTMENT OF NATURAL RESOURCES** 2300 N. Dr. Martin Luther King, Jr. Drive Milwaukee WI 53212-3128

**Tony Evers, Governor** Preston D. Cole, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463

WISCONSIN **DEPT. OF NATURAL RESOURCES** TTY Access via relay - 711

September 22, 2020

Attention: Schawanda Grissom Phillips Edison & Co. 11501 Northlake Drive Cincinnati, OH 45249

> Subject: Case Closure under Wis. Admin. Code ch. NR 726 Not Recommended

> > Bright Cleaners, 7249 S. 76th St., Franklin, WI 53132

BRRTS # 02-41-580017, FID # 241928940

Dear Ms. Grissom:

On July 30, 2020, the Wisconsin Department of Natural Resources (DNR) reviewed the closure request for the case identified above. As you are aware, the DNR reviews environmental remediation cases for compliance with applicable laws, including Wis. Stat. ch. 292 and Wis. Admin. Code chs. NR 700 – 754 and whether any further threat to public health, safety or welfare or the environment exists at the site or facility, per Wis. Admin. Code § NR 726.13 (2) (b). Case closure is not recommended because additional legal requirements must be met. The purpose of this letter is to inform you of the remaining requirements for obtaining closure. We request that within 60 days of this letter, you provide us with the information requested or your written response regarding the necessary work and a schedule for completion of this work.

# **Background**

The site is a former dry-cleaning facility located within the Franklin Centre shopping mall. Dry cleaning operations were conducted on-site from approximately 1995 to November 2018. The tenant space which housed the former dry-cleaning facility (Bright Cleaners tenant space) is currently vacant. Sub-slab vapor samples collected at the site identified tetrachloroethene (PCE) at a concentration exceeding the small-commercial vapor risk screening level (VRSL). A sub-slab depressurization system (SSDS) was installed within the former Bright Cleaners tenant space and actively operated from September 2018 to December 2018. The SSDS components are still in place, but the system has not operated actively since December 2018. Sub-slab vapor samples collected after the SSDS was shut down have not identified any small commercial VRSL exceedances.

# Additional Requirements Needed for Case Closure Under Wis. Admin. Code ch. NR 726

As noted above, additional work is necessary to meet the requirements for case closure because the site investigation is incomplete, and a remedial action has not been completed. Additional site investigation activities and possibly remedial action will be necessary prior to case closure. The DNR requests the submittal of a comprehensive site investigation and interim action report which documents the activities requested below as well as all previous environmental activities completed at the site to date.



# 1. Preferential Migration Pathway Assessment

Additional assessment of utilities is necessary to complete the site investigation. Complete an assessment to determine whether utilities located at the site are acting as a source of contamination and/or a preferential migration pathway. Provide the location of all floor drains located within the former Bright Cleaners tenant space and the location of utility laterals within the former Bright Cleaners tenant space and adjacent tenant spaces.

# 2. Soil

Soil samples collected to date have not identified any chlorinated volatile organic compounds (CVOCs) at concentrations in exceedance of regulatory standards. However, the DNR is unable to determine whether the soil investigation is complete. The results of the preferential migration pathway assessment requested above should be evaluated to determine whether soil samples collected to date were collected in appropriate locations and whether additional soil investigation is necessary. The collection of soil samples HA-1, HA-2, and HA-3 has not been documented other than in the closure report. Documentation of these samples along with all other samples collected should be included in a comprehensive Site Investigation Report (SIR). For any soil borings completed to collect soil samples, the DNR requests the completion and submittal of soil boring logs.

# 3. Groundwater

Groundwater samples collected from permanent monitoring wells to date have not identified any contaminants at concentrations in exceedance of regulatory standards. However, the DNR has determined the groundwater investigation is incomplete, because groundwater samples have not been collected beneath the former Bright Cleaners tenant space to investigate the potential contamination in/near the identified source area and along preferential migration pathways. Install a monitoring well within the former Bright Cleaners tenant space near the location of the former dry-cleaning machine. Additionally, the results of the preferential migration pathway assessment and potential soil sampling requested above should be evaluated to determine whether groundwater samples collected to date were collected in appropriate locations and whether additional monitoring wells are needed. For any monitoring wells installed, the DNR requests the completion and submittal of soil boring logs, as well as the collection of soil samples.

# 4. Vapor

Sub-slab vapor samples collected at the site identified PCE at a concentration exceeding the small-commercial VRSL. An SSDS was installed within the former Bright Cleaners tenant space and actively operated from September 2018 to December 2018. The SSDS components are still in place, but the system has not operated actively since December 2018. Sub-slab vapor samples collected after the SSDS was shut down have not identified any small-commercial VRSL exceedances. Your environmental consultant, Apex, stated, "The vapor contamination has been addressed by the operation of the SVE (soil vapor extraction) System. The confirmatory vapor samples collected after the operation of the SVE System demonstrate that the system effectively lowered the VOCs beneath the floor slab to concentrations below current standards." The DNR has the following comments/requests regarding the vapor activities:

- a) The post-SSDS shut down vapor data has not been submitted to the DNR other than in the case closure request. These sampling events should be documented in a comprehensive SIR. The report should include a description of the status of the SSDS during these sampling events, including when the fan was shut off and whether the extraction pipes were capped prior to sampling.
- b) The DNR letter, *Review of Revised Remedial Action Options and Design Report*, dated October 5, 2018, states "To determine if the system is not required any longer, shut fan(s) off. Then collect at least three rounds of sub-slab samples (first samples collected 2 to 4 weeks after shut-down; second samples collected 2 to 6 months after shut-down; third samples collected within 1 year after shut-down; and at least two of the samples collected during heating season). See: http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf; App. F."
  - This requirement has not been satisfied. Two rounds of post-SSDS shut down sub-slab vapor samples were collected from SV-1 and SV-7. The concentrations in these sampling rounds indicate the resulting trend and condition are unstable. To determine whether the SSDS is no longer needed, collect an additional round(s) of sub-slab vapor samples at SV-1, SV-4, and SV-7. In addition, collect a concurrent indoor-air sample from the former Bright Cleaners tenant space. The analysis of these samples should be limited to the contaminants of concern.
- c) Sub-slab vapor sample locations SV-5 and SV-6 are used to delineate the extent of vapor contamination. These locations were sampled once in 2017. Collect an additional round(s) of sub-slab vapor samples along with concurrent indoor-air samples from these locations to confirm vapor concentrations are below regulatory standards. If these sampling ports have been removed, the DNR requests that you install sampling ports closer to the wall which separates these tenant spaces from the dry-cleaning tenant space. The analysis of these samples should be limited to the contaminants of concern.
- d) The DNR requests that you cap the exhaust pipes for a minimum of two weeks prior to conducting the vapor sampling requested above. The purpose of this is to aid in determining whether the inactive SSDS is impacting vapor conditions at the site.
- e) Collect a background ambient air sample concurrent with the indoor-air sampling requested above. The analysis of this sample(s) should be limited to the contaminants of concern.
- f) Provide details regarding the HVAC operation in the former Bright Cleaners tenant space and adjacent tenant spaces. Clarify whether the HVAC system is currently operating and whether it was operating during previous vapor sampling events. Evaluate the potential for the HVAC system(s) to distribute contaminants throughout the facility.
- g) The DNR requests that you indicate the status of the SSDS during sampling events on the vapor analytical table. For example, indicate whether the sample was collected prior to, or after, the installation of the SSDS and whether the system was actively operating at the time of sampling.

h) The leak testing (shut-in test) conducted on the sampling train between the sample probe and the sample container does not appear to be in accordance with DNR recommendations. The DNR requests that you conduct future shut-in tests in accordance with the DNR procedures contained in the DNR publication, *Sub-Slab Vapor Sampling Procedures* (RR-986).

# 5. Remedial Action

- a) The vapor mitigation system installed at the site appears to be an SSDS rather than an SVE system. The DNR does not consider the installation of an SSDS a remedial action. In situations where vapors are present above VRSLs, a remedial action is required to reduce the mass and concentration of volatile compounds per Wis. Admin. Code § NR 726.05(8). A remedial action to the extent practicable, reactivation of the SSDS, and commissioning of the SSDS in accordance with the DNR publication, *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin* (RR-800) will be required if the vapor sampling requested above identifies vapors at concentrations in exceedance of the applicable VRSLs.
- b) The Sub-slab Depressurization System Installation Report, dated November 6, 2018, states that post-SSDS installation pressure field extension measurements were collected. Provide a table which includes the pressure field extension measurements per Wis. Admin Code § NR 716.15(3)(c). Also include a figure which identifies the locations of the pressure field extension measurements.

## 6. Other Comments

- a) Provide the dates or approximate dates of when the dry-cleaning machine and associated components were removed from the site.
- b) Attachment C.2 of the closure report states that documentation of investigative waste disposal was not included because "disposal of soil cuttings and development water was handled by tenant." Investigative waste disposal documentation is required prior to case closure. The DNR requests that this information be provided in a comprehensive SIR.

Please be aware that the SI can be an iterative process and that data results may indicate further assessment is needed to define the degree and extent of contamination. Additionally, dependent on the results of the additional SI, remedial actions must be evaluated and identified, as applicable, per Wis. Admin. Code ch. NR 722.

#### **Schedule**

Within 60 days of the date of this letter, respond in writing with a schedule of your plans to meet these requirements. Submit an SI workplan documenting plans to complete the additional site investigation activities requested above within 60 days per Wis. Admin. Code § NR 716.09 (1) and submit a comprehensive SIR within 60 days of completion of work per Wis. Admin. Code § NR 716.15 (1).

Until requirements are met, your site will remain "open" and you are required to submit semi-annual progress reports, per Wis. Admin. Code § NR 700.11. You are also responsible for any operation and maintenance activities required under Wis. Admin. Code § NR 724.13. Once the additional work has been completed, documentation should be submitted to the DNR to demonstrate that the applicable requirements have been met, per the timelines above.

# **Conclusion**

If you have any questions regarding the information in this letter or would like to schedule a meeting to discuss this case, please contact the DNR Project Manager, Joseph Martinez at 414-218-6042, or by email at <a href="mailto:joseph.martinez@wisconsin.gov">joseph.martinez@wisconsin.gov</a>. For more information on the closure reconsideration process, please see DNR publication, *Wis. Admin. Code ch. NR 726 Case Closure Reconsideration Process* (RR-102), by visiting <a href="mailto:dnr.wi.gov">dnr.wi.gov</a>, search: RR-102, for more information.

The DNR appreciates your efforts to restore the environment at this site.

Sincerely,

Michele R. Norman

Team Supervisor, Southeast Region Remediation & Redevelopment Program

Michele R. Norman

cc: Steve Newlin – Apex Companies LLC