

FACT SHEET

PROPOSED PERMIT MODIFICATION AND FINAL REMEDY SELECTION

Safety-Kleen Archdale
6182 Old Mendenhall Road
Archdale, North Carolina 27263
EPA ID Number: NCD 077 840 148

A modified permit has been prepared for Safety-Kleen Archdale to conduct the final remedy, described in the Corrective Measures Study dated February 2, 2018 and tentatively approved on December 5, 2018, under the Federal Resource Conservation and Recovery Act (RCRA). The final remedy shall be documented in Part VIII, Section M of the modified permit.

North Carolina is authorized by the United States Environmental Protection Agency to administer RCRA, including the Hazardous and Solid Waste Amendments (HSWA) of 1984. The State has determined that Safety-Kleen Archdale's proposed activities as identified in the modified permit and Corrective Measures Study satisfies the full intent of the North Carolina Hazardous Waste Management Rules and Solid Waste Management Act as amended. When finalized, this modified permit issued by the State of North Carolina will constitute a complete permit under the Federal Resource Conservation and Recovery Act.

Background

Safety-Kleen operates a commercial hazardous waste storage facility at 6182 Old Mendenhall Road in Archdale, Randolph County, North Carolina (35.91°, -80.01°). The site is a 6.15-acre tract owned by Safety-Kleen Systems, Incorporated. The adjoining properties to the north and south are occupied by industrial and commercial businesses. The immediately adjacent properties to the east are wooded and undeveloped. Residential properties are located beyond the wooded area further to the east (single-family homes and trailers).

Safety-Kleen is engaged in the collection, replacement, accumulation, and storage of spent mineral spirits, immersion cleaner, paint waste, and dry-cleaning wastes generated by industrial maintenance, automotive repair, and dry-cleaning businesses. Safety-Kleen has operated a hazardous waste storage facility at the site since the 1970s. Waste materials are stored in appropriate containers, drums, or aboveground storage tanks at the facility before being shipped to one of Safety-Kleen's recycle centers. The recycled product is returned to Safety-Kleen as reusable product.

The Archdale facility consists of the following elements: warehouse building; return and fill station; office building; tank farm; and truck station. The 11,700-square foot warehouse building contains office space and three areas for container storage. The return and fill station contains one drum rinsing unit and two drum washer/dumpster units that serve as unloading areas for containerized used parts washer solvent and as container cleaning stations. The tank farm houses seven aboveground storage tanks. One of the tanks is used for the storage of used parts washer solvent. The remaining tanks are used to store solvent products that are compatible with the used parts washer solvent; oily water; and used oil.

The hazardous waste management units subject to RCRA storage regulations include the three container storage areas in the warehouse building; the used parts washer solvent tank system and ancillary equipment in the tank farm; and the two drum washer/dumpster units in the return and fill station.

Access to the facility is controlled by a six-foot-high, chain-link fence, topped with three strands of barbed wire. Three gates allow access to the facility. Fire extinguishers are located in key areas of the warehouse

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building and the loading dock. Fire response is provided by the Guil-Rand Fire Department in Archdale, North Carolina.

Class 3 Permit Modification

This fact sheet concerns a Class 3 Permit Modification proposing a final remedy for the Safety-Kleen Archdale facility. The proposed final remedy is documented in the Corrective Measures Study dated February 2, 2018.

The final remedy proposed for this site includes remediation activities focused on contaminants of concern (COCs) existing at Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs). The COCs at this site include volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and light nonaqueous phase liquid (free product).

1. Soil Remediation

Two areas of impacted soil are identified at the site, the southern source area, which encompasses the area around SWMU-1 (former permitted waste mineral spirits aboveground storage tank (AST) used between 1985 and 1993) and AOC-1 (impacted soil in the vicinity of SWMU-1); and, the northern source area, which encompasses the area around SWMU-8 (former return and fill station used prior to 1985) and SWMU-9 (former waste mineral spirits AST used prior to 1985).

A soil vapor extraction (SVE) system consisting of vertical and, if practicable, horizontal wells shall be installed and operated at both the southern and northern source areas to extract VOCs and SVOCs.

The goal of the SVE system is to reduce VOCs and SVOCs in soil to concentrations below the:

- 1) Residential Preliminary Soil Remediation Goals (PSRGs) or other levels calculated to be protective of unrestricted land use, and
- 2) Soil-to-Groundwater PSRGs or to demonstrate that impacted soil is not substantially leaching to groundwater via other methods (e.g. modeling or leaching analysis).

Northern Source Area: Three vertical SVE wells shall be employed. Additionally, three existing horizontal SVE wells (installed when the tank farm was constructed) shall be evaluated to determine their viability for use during the proposed SVE.

Southern Source Area: Six vertical SVE wells shall be employed. Pending approval of the property owner, one horizontal SVE well may be installed off-site.

Influent air samples will be collected quarterly and evaluated to determine when COC concentrations have reduced or stabilized. Post-remediation soil samples will be collected to determine if remediation goals are achieved or if residual impacts can be addressed using a risk-based approach.

2. Groundwater Remediation – Free Product

Free product in the form of light nonaqueous phase liquid (LNAPL) was discovered in two wells. Aggressive Fluid Vapor Recovery (AFVR) shall be used to remove the LNAPL. After the initial AFVR event, the wells shall be gauged to ascertain the presence or absence of LNAPL and determine the need for further AFVRs.

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The goal of AFVR is to use one or more AFVR events to remove measurable LNAPL from two monitoring wells.

3. Groundwater Remediation – Dissolved Phase Contaminants

Monitored natural attenuation (MNA) is the selected remedy for dissolved phase groundwater contamination. The goal of MNA is to reduce VOC and SVOC concentrations in groundwater to below the North Carolina 15A NCAC 02L (2L) Groundwater Standards.

Groundwater from all wells will be gauged and sampled semiannually.

MNA sampling will continue until one of the following criteria are met:

- 1) COC concentrations in groundwater are below the North Carolina 2L Standards for three consecutive years *or*
- 2) A risk-based remediation option is pursued.

Public Comment & Public Hearing

The North Carolina Hazardous Waste Management Rules require that the public be given a forty-five (45) day period to comment on the proposed permit modification. This forty-five (45) day period will commence on Monday, February 11, 2019. The revised draft permit; Corrective Measures Study; and, all data submitted by the applicant are located in the Administrative Record, which may be found at the [Division of Waste Management's Document Management System](https://deq.nc.gov/about/divisions/waste-management/laserfiche) webpage (<https://deq.nc.gov/about/divisions/waste-management/laserfiche>). Documents may be located using the EPA ID# NCD007840148.

A public hearing will be held at 1:00 pm on Wednesday, March 13, 2019, at the Archdale Public Library, 10433 South Main Street in Archdale, North Carolina. All attendees will have the opportunity to present five-minute oral statements regarding the proposed permit modification and/or submit written comments at the public hearing.

The public may also submit written comments at any time during the forty-five-day public comment period, which begins on Monday, February 11, 2019, and ends Thursday, March 28, 2019. Persons wishing to comment on the proposed permit modification or the proposed final remedy should submit comments to:

Ms. Julie S. Woosley, Chief
North Carolina Division of Waste Management
Hazardous Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

All comments received during the public comment period or at the public hearing will be considered in the final permit decision. Comments received after the public comment period end date will not be considered. When a final permit decision is made to either issue or deny the permit modification, notice will be given to the applicant and to each person who submitted written comments or requested notice of the final decision.

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Anyone desiring additional information may contact Caroline Bari at (919) 707-8325, caroline.bari@ncdenr.gov or the address listed above.