

PROJECT SPOTLIGHT: COUNTY RECREATIONAL ROAD

County Conservation District Achieves Over 95% Control on Unpaved Recreational Road with Midwest's Eco-Friendly EnviroKleen[®]

>95%	>85%	100%
Reduction in Silt Load (dust potential) on the EnviroKleen[®] Blended section	Reduction in Silt Load (dust potential) on the EnviroKleen[®] Topical section	Compliance with All Environmental Requirements

CHALLENGES

- Preserve the newly placed base course aggregate and road integrity until the Driving Surface Aggregate layer can be installed in the following year.
- Effectively suppress the dust emissions generated from high ATV and vehicle traffic.
- Reduce washboarding and raveling, resulting from the insufficient fines and plasticity present in A-1-a aggregate when used as a surface course layer.
- Ensure compliance with all environmental requirements and qualify for state funding.

SOLUTION

- Installed drainage ditches and prepared the existing road infrastructure for placement of the new base course aggregate.
- Treated the newly placed base course aggregate with **EnviroKleen[®]**.
- Conducted a trial to evaluate two distinct installation methods in conjunction with the placement of the base course aggregate.
 - Blended Installation – EnviroKleen[®] was blended into the upper 3" of the newly placed base course aggregate during construction.
 - Topical Application - EnviroKleen[®] was applied to the surface of the road after placement of the base course aggregate.

RESULTS

- **Over 95% Decrease in Dust (Blended):** Silt load testing (EPA method) performed one and two months after treatment indicated that the potential dust emissions on the EnviroKleen[®] Blended section were reduced by over 95% compared to the untreated section.
- **Over 85% Decrease in Dust (Topical):** Silt load testing (EPA method) performed one and two months after treatment indicated that the potential dust emissions on the EnviroKleen[®] Topical section were reduced by over 85% compared to the untreated section.
- **Environmentally Friendly Solution:** EnviroKleen[®] demonstrated no negative environmental impacts and complied with all the project's environmental requirements.



PROJECT SUMMARY

Location: Pennsylvania

Industry: County Road

Customer: County Conservation District

The County Conservation District is responsible for ensuring the protection of natural resources which includes protecting local ecology and waterways from dust and sediment generated from vehicle traffic on unpaved roads. The County Conservation District partnered with Midwest to evaluate EnviroKleen[®] as an environmentally friendly solution for a heavily trafficked ATV road running parallel to a stream.

Two installation methods were installed and assessed: blending EnviroKleen[®] into the upper 3" of the newly placed aggregate and applying it to the surface of the newly placed aggregate. Silt load test results indicated that the blended method reduced dust emissions by over 95%, while the topical application achieved an 85% reduction compared to untreated sections.

This project provides county conservation agencies with validated, environmentally responsible approaches to achieve effective Fines Preservation and dust control.

LOOKING FORWARD

This trial demonstrated two effective methods for delivering sustainable Fines Preservation and dust control on unpaved county and recreational roads. Midwest's EnviroKleen[®] provides the County Conservation District and similar agencies with a proven solution that balances operational needs with environmental stewardship.