

PROJECT SPOTLIGHT: MUNICIPAL ROADS

Dust Control and Fines Preservation

90% Average Dust Reduction Maintained Through the Program	100% Positive Resident Feedback	100% Initial Reduction in Visible Dust Emissions
---	--	---

CHALLENGES

- Persistent dust generated from traffic impacted nearby residents' quality of life.
- Ordinary dust control treatments were inconsistent and ineffective.
- The Public Works Department (PWD) was faced with a high maintenance burden and resident dissatisfaction.
- The PWD was seeking a solution that preserved their unpaved roads, eliminated dust, required infrequent applications and posed no harm to the environment.

SOLUTION

- Midwest evaluated the selected roads and developed an individual application program for each road.
- Established a Guided Self Apply Program using EnviroKleen and a 1500 Portable Sprayer.
- Midwest provided application and equipment training to the PWD staff - allowing them to perform strategic applications.

RESULTS

- **90%+ Dust Suppression:** EPA-certified testing showed over 90% dust and fines preservation months after application.
- **Immediate Impact:** Nearly 100% reduction in visible dust emissions.
- **Sustained Performance:** Silt loadings dropped from 266 g/m² to near zero; opacity readings improved from 25% to 0–5%.
- **Resident Satisfaction:** Positive feedback on air quality and road conditions.



PROJECT BACKGROUND

Product: EnviroKleen®
Location: Georgia
Industry: Municipal
Customer: Public Works Department

The Public Works Department (PWD) faced challenges in maintaining unpaved residential and collector roads within the municipality. Traditional calcium chloride treatments were inconsistent, leading to dust, resident complaints, and environmental concerns. In 2021, the PWD partnered with Midwest to pilot a fines-preservation program using **EnviroKleen®**, a non-chloride, synthetic binder for long-term dust suppression and fines retention.

This Guided Self Apply (GSA) program enabled the PWD to apply the dust control using their own staff and equipment – providing flexibility and **cost** savings. The program has remained in place since.

LOOKING FORWARD

The Public Works Department now has a roadmap for expanding fines preservation, with proactive scheduling and improved outcomes. The program demonstrates the value of moving beyond traditional chlorides for longer-lasting, safer roads.