

Midwest Industrial Supply Inc.

Subject: Phone conversation between Frank Elswick, Midwest Industrial Supply Inc., and Margaret Heaphy, North Fork Landowners' Association Road Committee.

Date: January 16, 2009

I contacted Midwest Industrial Supply Inc. after learning the company has some "environmentally friendly" products on the market for dust abatement.

After briefly describing the North Fork Road situation, Frank suggested two products: Soil Sement and Road Oyl. It depends on the road base but he felt one of these two would meet our needs. Soil Sement is environmentally certified and used by BLM, military, Fish and Game. Road OYL is a modified resin and also used by various agencies.

If the road is stable and not falling apart in places, after grading, the product can be applied. Most likely apply yearly in spring or summer. The products need a lot of fines in the road bed to get strength and bind up particles. This product should reduce potholes and give relief from maintenance. The intent is to try to keep as much moisture out of the road bed as possible. There will be residual benefits each year.

When asked about Envirokleen (which is used in Alaska), he said it doesn't bind particles but just does dust control. He said the cost would be much higher. The advantage is it can be applied in any temperature, which is needed in Alaska. These other products need to be applied when temps are above 32 degrees.

COST:

Soil Sement or Road Oyl treatment: These two are the same cost. To do everything including getting the material to us and applying would be 13-15 cents per square foot. On a 24- to 28-foot road that translates to \$17,700 per mile applied. This price is based on \$7/gallon.

Envirokleen is 23 to 25 cents per square foot.

When asked how much it would cost to apply it ourselves, he said it depends on how they ship the Soil Sement or Road Oyl.

55-gallon drums cost \$6.62/gallon to ship

275-gallon totes are an option

A 5,000-gallon load is least expensive at \$4.50/gallon

To do the bulk delivery he said you need to have a 5,000-gallon tank. Anything that holds water will hold either product. He said a 5,000-gallon poly tanks can be bought for \$1,000 or so. When asked about applying he said we would need 2,500 gallons per mile. (I believe this is based on a 24-foot-wide road surface).

APPLICATION:

All that's needed is a spray bar mounted on a water truck. To clean the application truck it needs to be washed out right away, the same day as applied. He said one gallon for 50 square feet will be three coats. The first coat would soak in immediately. Third would be longer to saturate. If it does get on a car it takes elbow grease to get off. Must keep traffic off and only do one side of road at a time. And never work on more than 1/2 mile at a time.

He said they can sell the products in a 5-gallon bucket to compare. He said when the product is applied it is diluted at that time. There must be a water source available. He said Envirokleen is not diluted but is sprayed straight.

The company is doing everything now from an environmental perspective. It has been around for over 30 years. It used to purvey chloride products but stopped using them 10 years ago. He said they are detrimental to streams and waterways. He also said it kills vegetation. It will leach with rain and can get slick. Basically they are saltwater products. Sodium builds up in the road bed. It pulls moisture out of the air.

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Frank is sending information and a CD in the mail.

CONCLUSION:

At 2,500 gallons per mile and cost of product at \$4.50/gallon it would be \$11,250 per mile just for the product. Then you have to pay to apply. Maybe spraying a 20-foot-wide swath rather than a 24 foot wide swath would reduce costs if that is practical.

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