

**Anchorage Metropolitan Area Transportation Solutions
(AMATS) - Arterial Roadway Dust Control**

**FY2011 Request: \$200,000
Reference No: 49117**

AP/AL: Allocation

Project Type: Construction

Category: Transportation

Location: Anchorage Areawide

Contact: Frank Richards

House District: Anchorage Areawide (HD 17-32)

Contact Phone: (907)465-6900

Estimated Project Dates: 07/01/2010 - 06/30/2015

Appropriation: Surface Transportation Program

Brief Summary and Statement of Need:

Apply magnesium chloride dust palliative to approximately 70 miles of high volume State and municipal roadways prior to and immediately after spring sweeping. This project contributes to the Department's Mission by reducing injuries, fatalities and property damage and by improving the mobility of people and goods.

Funding:	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	Total
Fed Rcpts	\$200,000						\$200,000
Total:	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000

<input checked="" type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> On-Going
9% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Additional Information / Prior Funding History:

None.

Project Description/Justification:

Reduce PM-10 exposure especially to people living, walking, cycling and driving along major roads during spring break-up when PM-10 concentrations can approach the federal air quality standard. Magnesium chloride (MgCl2) dust palliative will be applied to approx 70 miles of high volume State and municipal roadways prior to and immediately after spring sweeping. MgCl2 is applied as a liquid brine to roadway shoulders and medians where winter traction sand and silt accumulate. Because of its hygroscopic properties, areas wetted with magnesium chloride can remain wet for two to three weeks after application even in dry periods. Because MgCl2 brine has a low freezing point, it can also be used as a dust suppressant that allows street sweeping in sub-freezing conditions.