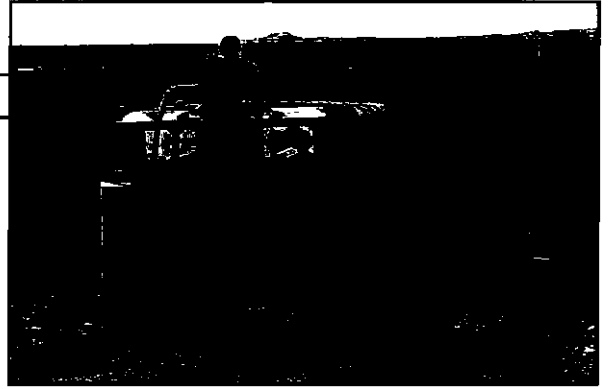
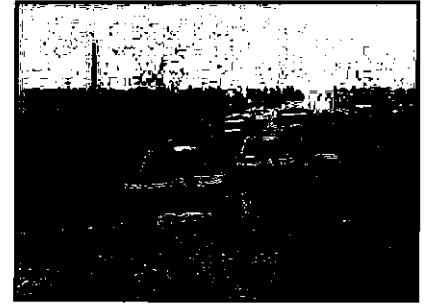


SUMMARY



**Field Observations
of Implementation
of Dust Control Measures
Project**



**Arizona Army National
Guard, Florence Military Reservation**

- *6 Months*
- *12 Months*
- *Post Implementation*

*(Original evaluation performed and report issued by URS Corporation –
prepared for the Arizona Department of Emergency and Military Affairs)*



Complete report available from:

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PURPOSE OF THE EVALUATION



The purpose of the site visit was to

- evaluate the effectiveness of two soil stabilization dust palliatives, EnviroKleen® and Soil-Sement®, that were previously applied at two locations within the Florence Military Reservation: the Mesa Staging Area (MSA) and the Main Supply Route (MSR) at three different intervals:
 - approximately 6 months following implementation
 - approximately 12 months following implementation
 - post implementation report
- Assess effectiveness of the evaluations quantifiably in accordance with Pinal County Air Pollution Control Regulation 2-8-300 and the ADEMA Scope of Work.
- Assess the effectiveness of the evaluations by the general observations of dust plumes that may migrate westwardly toward the Florence Gardens Community.
- Use the information gathered and conclusions drawn from each evaluation to prepare a final report and Operations and Maintenance Plan to assist the Arizona Army national Guard (AZ ARNG) with projecting maintenance and re-application activities and making recommendations for future projects.





**6-MONTH EVALUATION REPORT
IMPLEMENT FUGITIVE DUST
CONTROL MEASURES PROJECT
FLORENCE MILITARY
RESERVATION
FLORENCE, ARIZONA**


**Prepared for
ARIZONA DEPARTMENT OF
EMERGENCY AND MILITARY
AFFAIRS**

**URS Job No. 29679006
May 16, 2001**

7.0 CONCLUSIONS

The following are conclusions drawn from the 6-month observations and opacity measurements performed at the FMR:

1. The opacity of the dust plumes, generated by the convoys, on both the EnviroKleen[®] and the Soil-Sement[®] treated areas were all lower than the 20 percent as required at the property line according to Pinal County Air Pollution Control Regulation 2-8-300. The more conservative 3-minute rolling average data reduction method was used to calculate the maximum opacities for each area observed.
2. The combined application of coarse rock material and EnviroKleen[®] dust palliative at the MSA appear to provide excellent control of fugitive dust generation.
3. Both the EnviroKleen[®] and Soil-Sement[®] palliatives appear to exhibit a tolerance to the type of vehicular traffic of the MSR (generally heavy vehicles with both rubber tires and tracks). At the time of this evaluation, the Soil-Sement[®] appeared to show some signs of wear but maintains its general integrity at the surface after receiving heavy, abrasive traffic, particularly from tracked vehicles. The spalling observed appears to be predominantly from the aggregate being crushed or "popped" out of the surface, with only minor flaking of the Soil-Sement[®]-treated crossing.
4. The rubber-tired military vehicles appeared to develop appreciably more fugitive dust than the tracked vehicles. The 18-wheel variety of military vehicles created the most sustaining dust plume, presumably because of the multiple tires in contact with the road and capability of traveling faster than the tracked vehicles.
5. These observations of fugitive dust generation and treated surface degradation should not be considered complete evidence of the long-term performance of either product, or its one-time application.

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**12-MONTH EVALUATION REPORT
IMPLEMENT FUGITIVE DUST
CONTROL MEASURES PROJECT
FLORENCE MILITARY
RESERVATION
FLORENCE, ARIZONA**

**Prepared for
ARIZONA DEPARTMENT OF
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