



**GREEN VALLEY AND VICINITY
DUST RE-ENTRAINMENT RISK WIND FORECAST
ISSUED FRIDAY, FEBRUARY 10, 2012**

Three-day weather outlook:

Breezy conditions are likely this weekend as a series of systems moves through the region. The first will race through late Saturday into Sunday, followed by another late Monday into Tuesday and again Tuesday into Wednesday. At this point, the strongest winds aren't expected until Tuesday. Models don't show much moisture with these systems. Below normal temperatures are expected however. For now, the risk of re-entrained dust in Green Valley is forecast to remain **Low** through Monday.

	<u>WINDS</u>	<u>RE-ENTRAINMENT RISK</u>
Day 1: Sat 02/11/2012	No significant winds are expected early, breezy late.	LOW
Day 2: Sun 02/12/2012	No significant winds are expected early, breezy late.	LOW
Day 3: Mon 02/13/2012	No significant winds are expected early, breezy late.	LOW

PM-10 & PM-2.5 (PARTICLES)

PM-10 (COARSE PARTICLES):

Description – The term “particulate matter” (PM) includes both solid particles and liquid droplets found in air. Many manmade and natural sources emit PM directly or emit other pollutants that react in the atmosphere to form PM. Particles less than 10 micrometers in diameter tend to pose the greatest health concern because they can be inhaled into and accumulate in the respiratory system. Particles with diameters between 2.5 and 10 micrometers are referred to as “coarse”.

Potential health impacts – PM can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases, such as asthma and chronic bronchitis.

Exposure reduction measures – During high-wind or other events that prompt a forecasted **MODERATE** or **HIGH** risk of transported dust over the Green Valley area, sensitive persons should remain indoors and close windows and doors.

Units of measurement – Micrograms per cubic meter (ug/m3).