

## **Grandview Hills Elementary - Sub-Slab Venting System (SSVS) Update**

9 January 2009

As of December 2008, the SSVS, which removes sub-slab air from beneath the GHES cafeteria and directly adjoining areas, completed its 9<sup>th</sup> month of continuous, around-the-clock operation. A total of four sub-slab vapor sampling events have now been completed since operation of the system began in March 2008, including the most recent one conducted in October 2008. The results of the October 2008 sampling event indicate that sub-slab vapor concentrations remain below applicable action levels and continue to decline or remain stable as a result of system operation. The laboratory report for the October 2008 sampling event is available at the Weston Solutions, Inc. FTP site\*\*. ([see Document #43 at WESTON FTP site](#))

In accordance with the October 2007 SSVS work plan ([see Document #20 at WESTON FTP site](#)), the District committed to a minimum 3-month operating period, with concurrent monthly sampling, before evaluating continued operation of the system beyond that time. The sampling conducted over the initial 3 months of operation indicated that the sub-slab chemical concentrations at that time were below applicable action levels and had declined substantially compared to pre-operation levels. These data indicated that the SSVS was performing as designed. The initial 3 months of SSVS operation was evaluated in the 29 July 2008 Pre-Occupancy Report ([see Document #40 at WESTON FTP site](#)). Based on this report, both EPA and TCEQ concluded that there were no health concerns related to potential intrusion of sub-slab vapors into the school. As a conservative measure, however, LISD continued to operate the system.

The October 2008 data indicate that the SSVS continues to operate as expected and the specified criteria for system shutdown have been met. As of mid-December 2008, the SSVS had operated for 6 months longer than the minimum time planned, even though sub-slab concentrations have been below action levels since the first few months of operation.

Therefore, Leander ISD turned the SSVS off on 6 January 2009. In accordance with the October 2007 workplan, the system will be shut down for a minimum of 1 month. At the end of one month, the sub-slab vapors will be sampled again to determine whether soil vapor concentrations have changed during the shutdown period. Additional sub-slab vapor sampling events will occur at monthly intervals for 2 more months, at which time the data will be reviewed to determine future operation of the system. If sample concentrations remain below the action levels after 3 months of system shutdown, the system will be shut down permanently. However, the sub-slab vapor extraction equipment and monitoring system may remain in place for future testing and/or operation.

\*\* FTP site username = leander, password = lisD0001. Password is case sensitive (capital D, followed by three zeroes).