



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

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July 14, 2010

Llano County Environmental & Emergency Services
Attn: Ronald Moore, Administrator
Courthouse Annex
100 W. Sandstone Street
Suite 200A
Llano, TX. 78643

Dear Mr. Moore:

This letter is to inform you that we have completed our review of the information regarding Technical Assistance 10-037, radioactive granite at the Llano County Park Boat Ramp on Lake Buchanan. The Texas Department of State Health Services (DSHS) completed radiation surveys in the park, on the boat ramp, and in the granite surrounding the boat ramp.

Radioactive background levels in the parking lot were approximately 15-18 $\mu\text{r/hr}$. Levels at three feet above the granite were 14-28 $\mu\text{r/hr}$ and levels at ground level on the granite were 20-66 $\mu\text{r/hr}$. The radiation levels down the middle of the road and boat ramp were approximately 10-12 $\mu\text{r/hr}$. In Accordance with Texas Administrative Code 282.259(d)(5)(C), material used for building construction, industrial processing, sand blasting, metal casings, or other NORM in which the radionuclide content has not been concentrated to higher levels than found in its natural state is exempt from licensing or regulations. The rocky granite radiation levels are no higher than what is typical of granite found in the Texas Hill Country.

An area such as the granite rocks which is 2-3 times the park background poses no health risk to the public. Average exposure to Texas citizens from natural background radiation is about 125 millirem per year, or 125,000 microrem. In actuality, the public would be spending a limited amount of time on the rocky granite. Assuming an individual remained on the granite for an eight hour period (not likely) that person would receive between .12 and .23 millirem. These doses do not represent a hazard to individuals using this facility. If you have any questions regarding this information, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Chris Moore".

Chris Moore
Radiation Control Program
Texas Department of State Health Services
1100 W. 49th Street