Monday, October 27, 2003

**Report: LANL Seepage in Rio Grande**

By Adam Rankin  
*Journal Northern Bureau*

A pair of watchdog organizations say they have discovered the first conclusive evidence that very low-level radioactive contamination from Los Alamos National Laboratory is seeping into the Rio Grande.

In a report released today, Concerned Citizens for Nuclear Safety and Washington state-based The RadioActivist Campaign say they are confident that low levels of radioactive cesium-137 they detected along the Rio Grande came from LANL.

The report indicates no immediate human health risk attributable to the low levels of cesium. Cesium-137 is a by-product of nuclear fission and a carcinogen. It is present globally in small concentrations from atmospheric nuclear testing.

Samples taken in 2002 and 2003 from aquatic moss beside a spring in Pajarito Canyon and along Pajarito Stream showed levels of cesium-137 at 0.01 to 6 picocuries per kilogram, the groups reported. Samples of water showed cesium levels 200 to 500 times lower, about 0.01 to 0.1 picocuries per kilogram, the report states.

The federal limit for cesium in drinking water is 200 picocuries per kilogram.

LANL officials, while pledging to follow up on the findings, strongly contest the validity of the report, which relies heavily on the strength of only two samples. They argue that more conclusive evidence is necessary to make such strong allegations, considering the widespread presence of cesium.

"The good news is, as (the) report points out, the alleged detections are far, far below anything that could be considered a risk to human health or the environment," LANL spokesman James Rickman said.

"The bad news is that the report's conclusions are highly questionable for a number of reasons."

The report argues that the cesium migrated through ground water from LANL's mesa-top location to the spring, where it was absorbed...
and concentrated by the moss.

Jon Goldstein, a spokesman for the New Mexico Environment Department, said the state agency has no data to either confirm or deny the report's findings.

"We do have data of radioactive materials in runoff," he said. "This may be linked with that."

He said NMED tested the water in Pajarito Canyon and detected no cesium but would do the tests again.

"Anytime there is a report like this, we pay attention," he said.

The report, titled "Early Warning: A Radioactive Rio Grande," was paid for with money from a $6 million settlement with the Department of Energy maintained as a grant called the Citizen's Monitoring and Technical Assessment Fund.

Norm Buske, the scientist and founder of TRAC who made the measurements, says he is confident he has ruled out all other possible sources for the cesium.

"This is probably the first report of waste from LANL entering the river from the ground water," Buske said. The report functions as an early warning for regulatory agencies and LANL to take action now, before the waste stream becomes unmanageable, he added.

"The public and other agencies should get involved to head this off at the pass, as it were, before we really have a problem," Buske said.

LANL officials contend that the strength of the report fails with scrutiny.

Rickman said numerous scientific studies have shown that cesium does not move readily through ground water because it sticks to rocks and soils, calling into question the likelihood that cesium would migrate several miles through ground water.

Rickman also said the concentrations of cesium cited by the report are far below detection limits of analytical methods at independent laboratories used by LANL.

"The fact that TRAC has cited such magically low detections as fact makes the report and its conclusions suspect," he said.

Joni Arends, with Concerned Citizens for Nuclear Safety, said she hopes the results spur more studies.

"This citizen's monitoring initiative indicates that LANL must be held responsible for its past and current waste sources," she said.