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SUBJECT: FSU Leach Student Recreation Center - Radon Evaluation

The Leach Student Recreation Center (Leach) at Florida State University (FSU) has been evaluated for radon content due to indoor air quality questions that have been raised regarding other buildings on the FSU campus. From July 10 to 12, 2023, radon measurements were collected at twenty one (21) locations at Leach. The 48-hour charcoal canister placement and collection were conducted under the supervision of a state-certified radon contractor, in accordance with standard protocols of the United States Environmental Protection Agency (USEPA) and the Florida Department of Health (FDOH). Two of the radon values were greater than the 4 picoCurie/liter (pCi/L) USEPA Action Level (4.4 and 4.5 pCi/L), while the remaining results ranged from below the detection limit at 0.4 pCi/L to 0.9 pCi/L. Results for the July 2023 sampling event and a subsequent retest are summarized in the attached table.

Detectable radon levels are ubiquitous throughout the state, with most areas of Florida exhibiting low radon. Outdoor levels typically are in the 0.4 to 0.5 pCi/L range, and indoor levels regularly range from 1 to 2 pCi/L. Radon comes from decay of natural radium, and elevated indoor radon is related to local geology. Radon often is present in clays, phosphate rock, and igneous rocks, like granite, and can originate from bedrock far below land surface. Because it is a naturally occurring substance, exposure is common and unavoidable.

The data summarized herein reflected a condition that is consistent with many buildings in Florida and throughout the United States, and the radon conditions at Leach did not represent a health concern. However, due to the detections at slightly greater than the Action Level, those two locations at Leach were resampled in August 2023. The attached table has been updated to include the results of the continuous radon measurement (CRM) retests, both of which were below the USEPA Action Level of 4 pCi/L. Based on the results of the August 2023 resampling, further investigation or other action regarding radon at the Leach Student Recreation Center is not deemed necessary at this time.

RADON MEASUREMENTS - Leach Student Recreation Center, Florida State University

Location	Sampling Dates	Number of Samples	Min pCi/L	Max pCi/L	Notes
1st Floor	10 to 12 Jul 2023	21	<0.4	4.5	Two locations > Action Level 4.0 pCi/L
1st Floor (CRM retest of two locations)	22 to 24 Aug 2023	Both results < 4 pCi/L (3.1 and 3.5 pCi/L); average of two tests for each location < 4 pCi/L; 1st floor cleared (no habitable spaces on 2nd floor)			

pCi/L = picocuries per liter

Shaded results indicate the retest clearance sampling.