
HSWMR

Hazardous Substance & Waste Management Research, Inc.

2976 Wellington Circle West
Tallahassee, Florida 32309
Phone: (850) 681-6894
Fax: (850) 906-9777
www.hswmr.com

FROM: Dr. Christopher M. Teaf
President & Director of Toxicology

TO: Laymon Gray
Associate Director
Environmental Health & Safety
Florida State University

DATE: 21 August 2023 (*updated from 10 August 2022*)

SUBJECT: FSU Wildwood Hall North - Radon Evaluation (*Annual Follow-up Testing*)

The Wildwood Hall North residence hall building (Wildwood North) 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. Initial radon testing was conducted from May 3 to May 5, 2022, from six (6) locations at Wildwood North. The 48-hour charcoal canister measurements were collected by 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). Each of the six radon values exceeded the 4 picoCurie/liter (pCi/L) USEPA Action Level (range 4.1 to 11.8 pCi/L).

The initial May 2022 sampling results for Wildwood North suggested that further evaluation should be conducted to determine the appropriate degree and methods for mitigation.

In July 2022, the University proactively contracted for installation of a subslab depressurization radon mitigation system in Wildwood North. The system was completed in late July 2022 and post-mitigation clearance sampling was conducted from August 6 to August 9, 2022, in accordance with USEPA and FDOH protocols. All post-mitigation sampling results were below the USEPA Action Level. Based on the initial exceedances of the Action Level, the mitigation system installation, and post-mitigation clearance testing, Wildwood North was placed on the annual maintenance and monitoring program with respect to radon, in accordance with FDOH guidance and FSU policy.

That agency guidance and FSU policy dictate that annual follow-up testing be conducted in the areas of previously elevated (greater than the Action Level) radon levels. The 2023

annual testing for Wildwood North was completed from May 10 to 12 at six locations. All 2023 annual testing results were less than the USEPA Action Level of 4 pCi/L. The attached table summarizes the initial testing from May 2022, the results of the August 2022 post-mitigation clearance testing, and the 2023 annual follow-up testing.

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.

RADON MEASUREMENTS - Wildwood Hall North, Florida State University

Location	Sampling Dates	Number of Samples	Min pCi/L	Max pCi/L	Notes
1st Floor	3 to 5 May 2022	6	4.1	11.8	All results > Action Level 4.0
1st Floor (post-mitigation)	6 to 9 August 2022	6	1.4	1.8	No results > Action Level 4.0

Annual Follow-Up Testing

2023 (May 10-12): 6 of 6 samples < 4 pCi/L (range 0.7 to 1.1 pCi/L)

pCi/L = picocuries per liter

Shaded results indicate the post-mitigation clearance sampling.