



March 30, 2023

Sam Stemper
J.F. Brennan Company, Inc.
818 Bainbridge Street
La Crosse, WI 54603

981447

RE: Thorium Monitoring – 108 N. Streeter Dr.
Dig Ticket: 601319308

Dear Mr. Stemper:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during the installation of two borings for micropiles at 108 N. Streeter Dr. in Chicago, IL. Monitoring was performed on March 28, 2023, by Brian Schmidt, SAHCI Health Physics Technician.

Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 126496) with attached Ludlum Model 44-10 2"x2" NaI Detector (w/ 6" collimated lead shield). The instrument was both calibrated on May 3, 2022. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 7,819 counts per minute (cpm).

The average background count rate for this location was 1,939 cpm.

Soil Gamma Scans

Gamma surface scans were performed using the Ludlum Model 2221 Scaler / Ratemeter described above. Survey data was collected by scanning the soil spoils generated during the installation of two borings and recording the highest count rate. The spoils from the two borings were scanned from the surface to 13 feet below ground surface.

Additionally, per USEPA request, a surface scan was performed on the 10 foot by 10 foot work area surrounding each boring. Work area surface surveys were performed both before boring was started at each location, and again after the 13 foot depth was reached.

The maximum gamma count rate for each location was recorded on the attached Radiation Survey Form. The count rates ranged from 2,100 cpm to 3,000 cpm.

No count rates were found at any time that exceeded the threshold limit of 7,819 cpm.

Additional Monitoring

Since no count rates were identified above the 7.1 pCi/gram threshold limit, no additional soil sampling, air monitoring, or personnel monitoring were performed.

I will be providing a copy of this report to both the City of Chicago Department of Public Health and US Environmental Protection Agency, as required.

Thank you for your assistance with this project. If you have any questions or need additional information, please call me at (815) 485-6161.

Sincerely,
Stan A. Huber Consultants, Inc.

A handwritten signature in black ink, appearing to read 'Glenn Huber', written in a cursive style.

Glenn Huber, CHP
President

Radiation Survey Form

Stan A. Huber Consultants, Inc.

Location: 108 N. Streeter (Chicago Locks)

Technician: Brian Schmidt

Date: 3/28/23

Instrument: Ludlum Model 2221 (#126496)
 w/ Ludlum Model 44-10 NaI (6" shielded)
 BKG = 1,939 cpm 7.1 pCi/g = 7,819 cpm

