



October 7, 2016

Bill Zebrauskas
Western Utility Contractors, Inc.
2565 Palmer Ave.
University Park, IL 60466

RE: 420 E. Ohio St. Thorium Monitoring

Dear Mr. Zebrauskas:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during excavation for a conduit repair project at 420 E. Ohio St. in Chicago, Illinois. The monitoring was performed by Glenn Huber on October 3, 2016.

Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaled / Ratemeter (serial no. 127242) with attached 2"x2" NaI probe (unshielded). The instrument was calibrated on August 8, 2016. The USEPA action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 18,098 counts per minute (cpm).

The average background count rate for this location was found to be 5,126 cpm.

Soil Gamma Scans

Gamma surface scans were performed using the Ludlum Model 2221 Scaler / Ratemeter described above. Survey data was collected by entering the excavation after each 18 inch lift and recording the highest count rate for the floors and walls to an excavation depth of 1.5 feet. A portion of the excavation included an existing utility vault. All soil was loaded directly into a truck for disposal.

The maximum gamma count rate for each lift was recorded on the attached Radiation Survey Form. The count rates in the excavation ranged from 5,000 cpm to 7,200 cpm. No count rates were found at any time that exceeded the threshold limit of 18,098 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.

Regulatory Notification of Survey Completion

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', with a long horizontal flourish extending to the right.

Glenn Huber, CHP
President

Radiation Survey Form

Location/ Project ID: Western Utility Contractors 420 E. Ohio St.

Date: 10/3/16

Technician: Glenn Huber

Inst Model: Ludlum 2221

Serial No. : 127242

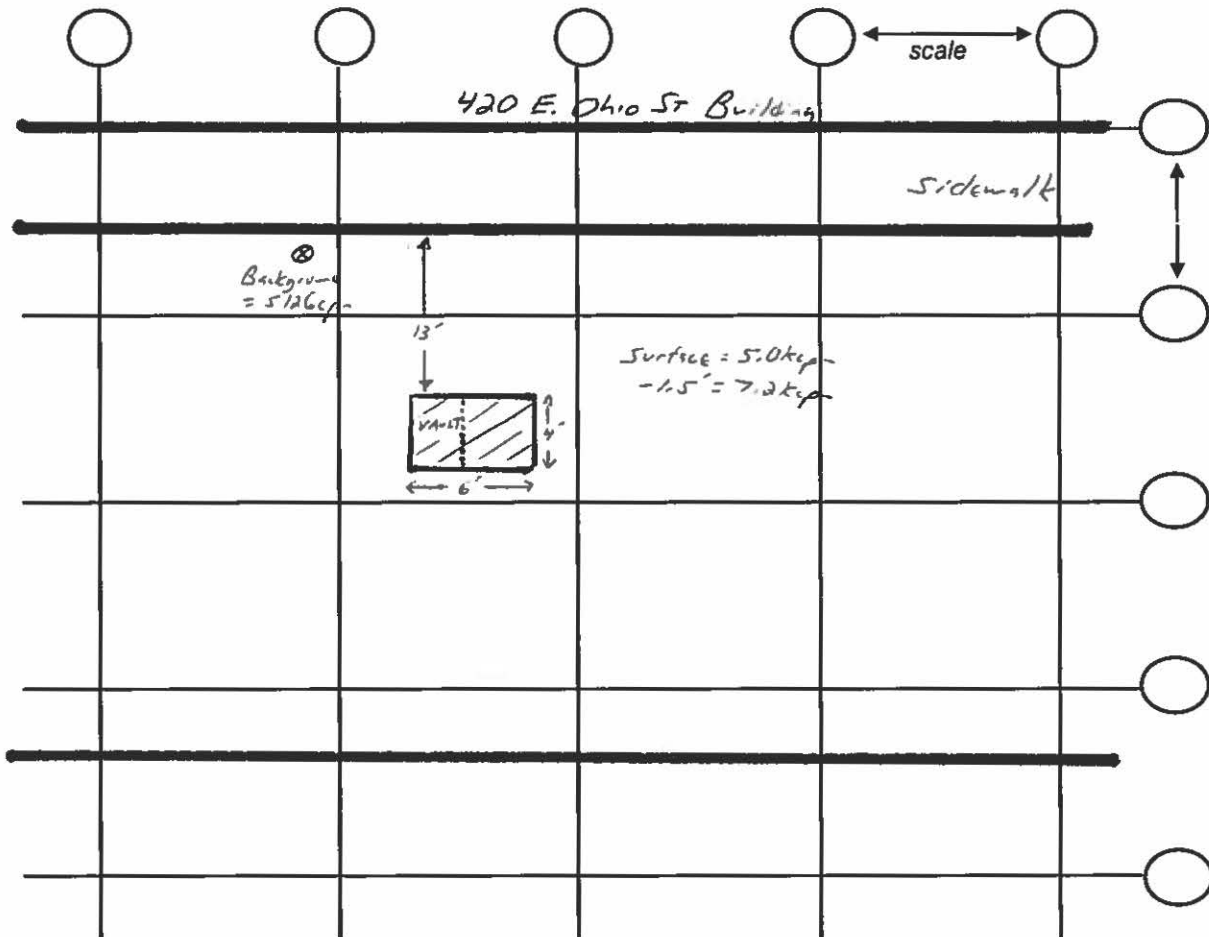
Probe Type: 1"x1" NaI / 2"x2" NaI
Shielded / Not Shielded

Lift Elevation: surface → -1.5'

Background 5126 cpm

Action Level: 18098 cpm

Write grid designations in circles. Record highest counts for grid in cpm. Record 30 second counts at grid intersections (if required). Shade areas of elevated counts and record max cpm.



= excavated area