

February 19, 2025

706876

Matthew Ziegler  
AT&T  
4533 W. Roscoe St.  
Chicago, Illinois 60641

RE: Thorium Monitoring – AT&T 118-139 E. Erie St.  
CDOT Permit: 2035992

Dear Mr. Ziegler:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during excavation for repair of an AT&T conduit located at 118-139 E. Erie St. in Chicago, Illinois. The excavation was performed by HEI Contractors and the monitoring was performed by Mark Dewald, SAHCI Health Physicist, on February 6, 2025.

#### Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 126497) with attached Ludlum Model 44-10 2"x2" NaI Detector (w/ 6" collimated lead shield). The instrument was calibrated on May 7, 2024. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 6,669 counts per minute (cpm).

The average background count rate for this location was 1,844 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 and recording the highest count rate for the floor and walls to a maximum depth of 66 inches below ground surface. All asphalt, concrete, and soil were loaded directly into a truck for disposal.

The maximum gamma count rate for each 18-inch lift was recorded on the attached Radiation Survey Form. The count rates in the excavation ranged from 1,400 cpm to 2,100 cpm. No count rates were found at any time that exceeded the threshold limit of 6,669 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.



Glenn Huber, CHP  
President

## **Radiation Survey Form**

**Location/ Project ID:** 118-139 E. Erie St. Excavation - HEI

**Date:** 2/6/2025

**Technician:** Mark Dewald

**Inst Model:** Ludlum 2221

**Serial No.:** 126497

**Probe Type:** 1"x1" Nal 2"x2" Nal  
Shielded Not Shielded

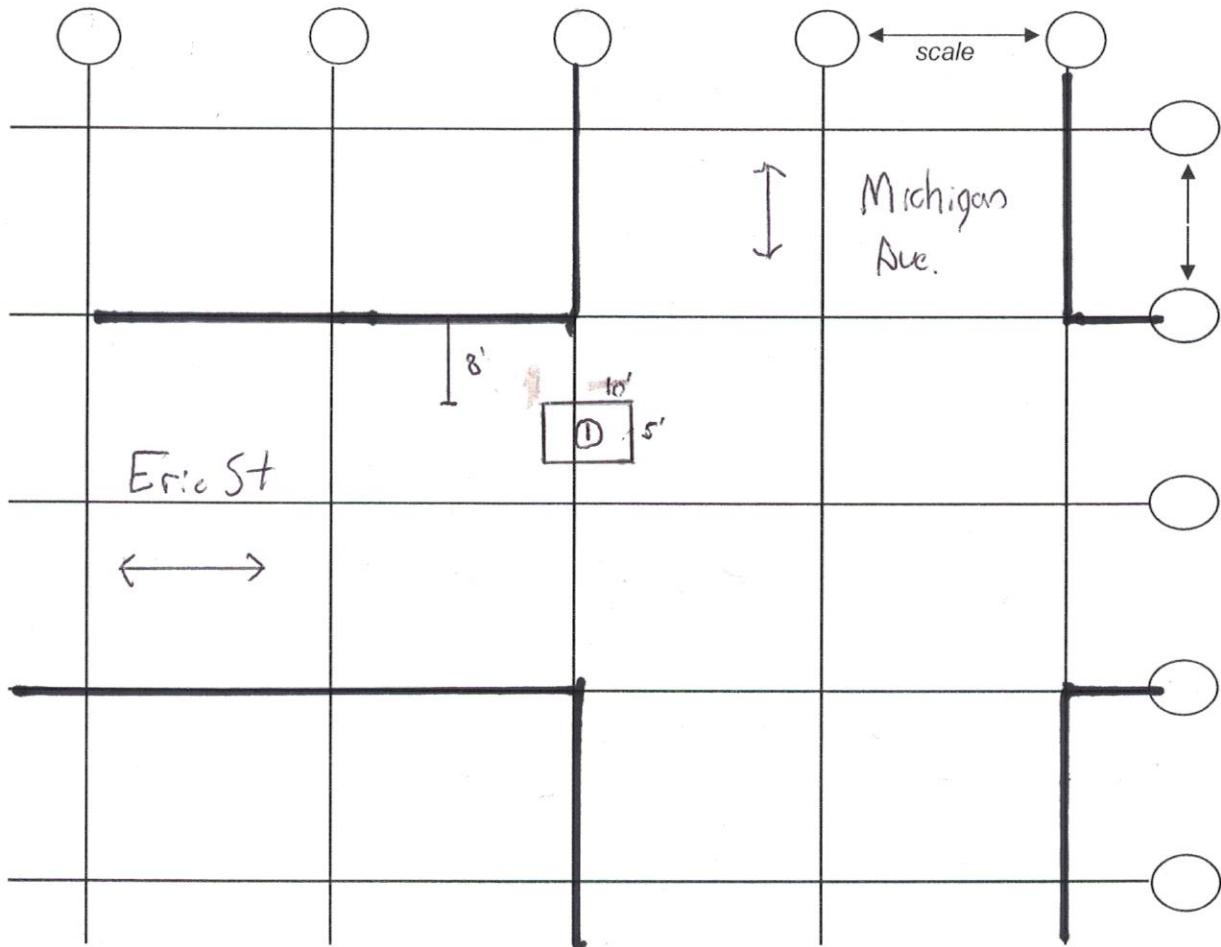
**Lift Elevation:** Surface to -66" BGS

Background 1,844 cpm

Action Level: 6,669 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.

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	0-12"	12-30"	30-48"	48-66"	66-84"
Area 1	1400	1500	1800	2100	1700