



January 29, 2024

988523

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

RE: Thorium Monitoring – AT&T 153-165 E. Erie St.
CDOT Permit: 1906690

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 at 153-165 E. Erie St. in Chicago, Illinois. The monitoring was performed by Mark Dewald, SAHCI Health Physics Technician, on January 23, 2024.

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 9, 2023. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 6,043 counts per minute (cpm).

The average background count rate for this location was measured at 1,846 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 on the floors and walls to a depth of 30 inches below ground surface. Material excavated below 30 inches to a maximum depth of 48 inches was surveyed as it was stockpiled at the surface. All asphalt, concrete, and soil were loaded 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 1,600 cpm to 3,300 cpm. No count rates were found at any time that exceeded the threshold limit of 6,043 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

Location/ Project ID: 153-165 E. Erie St. AT&T Conduit Repair - HEI

Date: 1/23/2024

Technician: Mark Dewald

Inst Model: Ludlum 2221

Serial No. : 126497

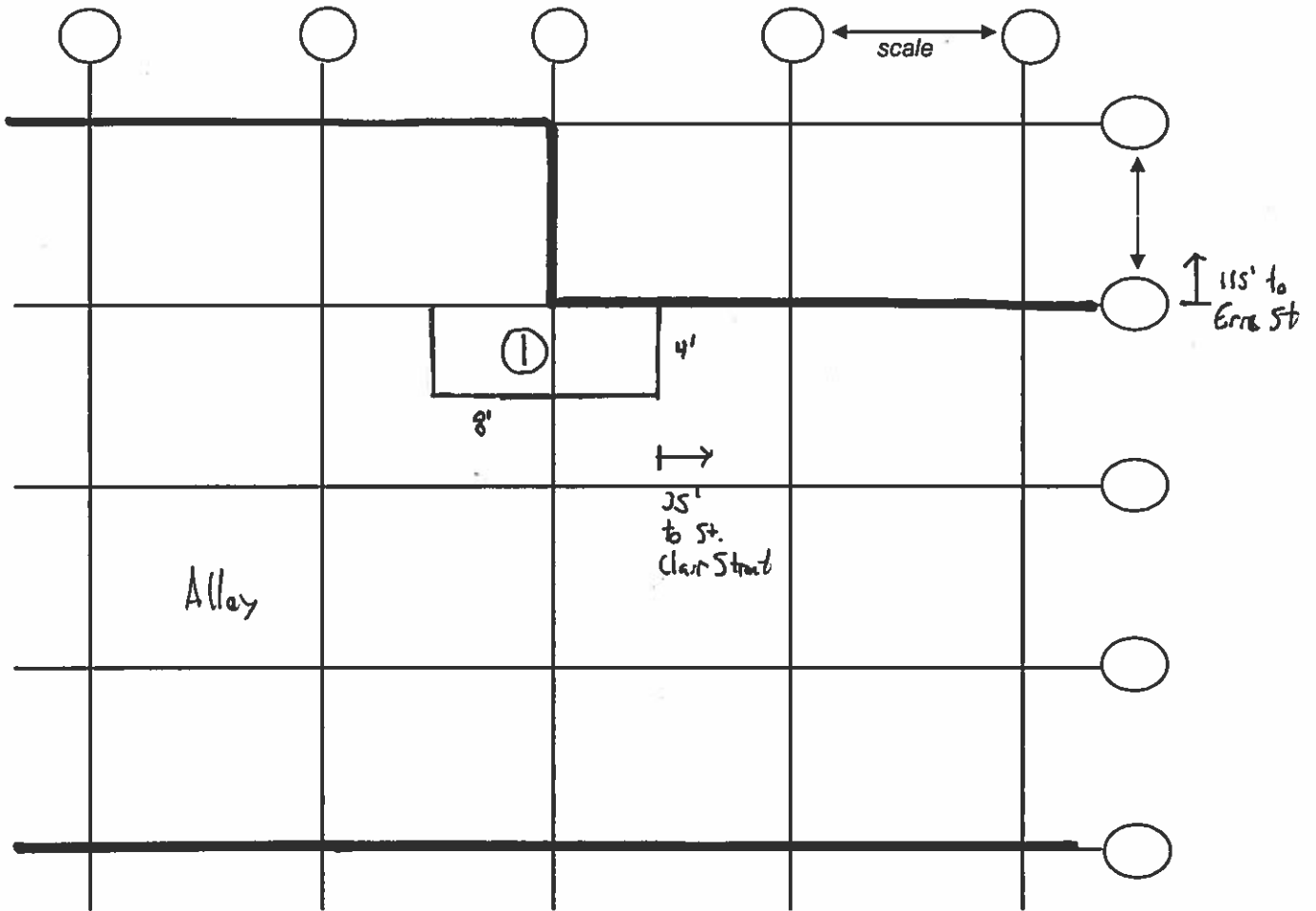
Probe Type: 1"x1" NaI 2"x2" NaI
 Shielded Not Shielded

Lift Elevation: Surface to -48" BGS

Background 1,846 **cpm**

Action Level: 6,043 **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.



	0-18"	12-30"	30-48"	48-66"
Area 1	1600	2800	3300	2400

