



January 20, 2026

707820

Angel Camacho
SET Environmental
450 Sumac Road
Wheeling, Illinois 60090

RE: Thorium Monitoring – City of Chicago Department of Water Management
CDOT Permit: 2199859 402-420 E. North Water Street

Dear Mr. Camacho:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during an emergency excavation for a repair of a leaking Chicago Department of Water Management water main at 402-420 E. North Water St. in Chicago, Illinois. The monitoring was performed by Aaron Morris, contracted SAHCI Health Physicist, on January 12, 2026. All activities were conducted under the guidance of document *SET General Procedure for Thorium Monitoring*.

Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 132844) with attached Ludlum Model 44-10 2"x2" NaI Detector (w/ 6" collimated lead shield). The instrument was calibrated on May 6, 2025. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 7,141 counts per minute (cpm).

The average background count rate for this location was 2,221 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 surface and walls of the excavation to a depth of 60 inches below ground surface. Excavated concrete and soil were loaded directly into a truck for disposal.

The observed gamma count rates ranged from 1,500 to 2,000 cpm and were recorded on the attached Radiation Survey Form. No count rates were found at any time that exceeded the threshold limit of 7,141 cpm. Photographs of the excavation location are included as an attachment to this report.

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: 402-420 E. North Water St. DWM Water Leak Repair

Date: 1/12/26

Technician: Aaron Morris

Inst Model: Ludlum 2221

Serial No. : 132844

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

Lift Elevation: Surface to -60" Below Slab

Background 2,221 cpm

Action Level: 7,141 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.



