



February 11, 2021

Jared Szajkowski
Western Utility Contractors
2565 Palmer Ave.
University Park, IL 60484

RE: 431-437 N. Dearborn St. Thorium Monitoring 2/4/21 and 2/9/21
CDOT Permit: 1406534

Dear Mr. Szajkowski:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during the excavation for repair of a manhole at 431-437 N. Dearborn St. in Chicago, Illinois. The monitoring was performed by Brian Schmidt, SAHCI Health Physics Technician, on February 4 and February 9, 2021.

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 July 28, 2020. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for instrument serial number 132844 is 7,592 counts per minute (cpm).

The average background count rate this location was measured at 1,815 cpm.

Soil Gamma Scans – Manhole Repair

Gamma surface scans were performed in the excavation using the Ludlum Model 2221 Scaler / Ratemeter detailed above. Survey data was collected by entering the excavation and recording the highest count rate for the floor and walls to a maximum excavation depth of 3 feet below ground surface. All asphalt, concrete, and soil were 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 1,600 cpm to 2,700 cpm. No count rates were found at any time that exceeded the instrument specific count rate threshold limit of 7,592 cpm.

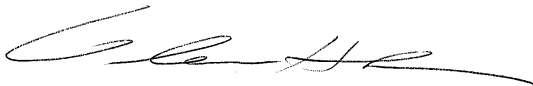
Additional Monitoring

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: WESTERN UTILITY - MANHOLE REPLACEMENT - ROW RADIOLOGICAL SOIL SURVEY
DEARBORN ST. + HUBBARD ST.

Date: 2/4-9/2021 Technician: BAIAN SCHMIOT

Inst Model: LV00M - 2221 Serial No.: 132844

Probe Type: 1"x1" NaI / ~~2"x2" NaI~~ Lift Elevation: 0-36"
Shielded / Not Shielded

Background 1815 cpm Action Level: 7592 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.

