



July 30, 2020

959526

Thomas Gorski
IHC Construction Companies, LLC.
1500 Executive Dr
Elgin, IL 60123

RE: Thorium Monitoring 402-440 N. St. Clair St.
CDOT Permit #1254161

Dear Mr. Gorski:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during the excavation around a 12 foot wide drop shaft structure at 402-440 N. St. Clair Street in Chicago, Illinois. The monitoring was performed by Jeremy Kieser, SAHCI Health Physicist, on July 20, 2020.

Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 127242) with attached Ludlum Model 44-10 2"x2" NaI Detector (w/ 6" collimated lead shield). The instrument was last calibrated on August 6, 2019. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 6,673 counts per minute (cpm).

The background count rate for this location was measured as 1,830 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 around the drop shaft structure and recording the highest count rate for the floor and walls to a maximum excavation depth of 3 feet below ground surface. Soil was loaded directly into a truck for offsite 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 1,700 cpm to 2,100 cpm. No count rates were found at any time that exceeded the threshold limit of 6,673 cpm.

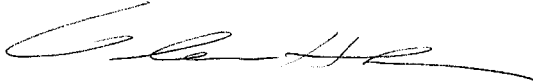
Additional Monitoring

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

Glenn Huber, CHP
President

Radiation Survey Form

Location/ Project ID: DOT 1254161

Date: July 20, 2020

Technician: Jeremy Kueser

Inst Model: 2221

Serial No.: 127242

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

Lift Elevation: Surface to 3ft

Background 1830 cpm

Action Level: 6673 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.

