



February 4, 2017

Matt Welton
Western Utility Contractors, Inc.
2565 Palmer Ave.
University Park, IL 60466

RE: 0 – 36 W. Illinois St. Thorium Monitoring 1/19/17 – 1/24/17
CDOT Permit #745452

Dear Mr. Welton:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during excavation for a fiber optic conduit installation at 0-36 W. Illinois St. in Chicago, Illinois. The monitoring was performed by Steven Kowalczyk and Brian Schmidt, SAHCI Health Physics Technicians, on January 19, 2017 through January 24, 2017.

Instrumentation

Surface gamma scans were performed using Ludlum Model 2221 Scaled / Ratemeters (serial no. 126496 and 127242) with attached Ludlum Model 44-10 2"x2" NaI probes (w/ 6" collimated lead shield).

Serial number 126496 was calibrated on October 14, 2016. The USEPA action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 7,029 counts per minute (cpm). The average background count rate for this instrument at this location was determined to be 1,807 cpm.

Serial number 127242 was calibrated on August 8, 2016. The USEPA action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 6,738 counts per minute (cpm). The average background count rate for this instrument at this location was determined to be 1,993 cpm.

Soil Gamma Scans

Gamma surface scans were performed using the Ludlum Model 2221 Scaler / Ratemeters described above. Survey data was collected by entering the excavation after each 18-inch lift and recording the highest count rate for the floors and walls to a maximum excavation depth of 38 inches. All soil was 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 3,700 cpm. No count rates were found at any time that exceeded the threshold limits of 6,738 cpm and 7,029 cpm.

Additional Monitoring

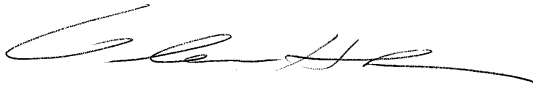
Since no count rates were identified above the 7.1 pCi/gram threshold limit, no additional soil sampling, air monitoring, or personnel monitoring were performed.

Regulatory Notification of Survey Completion

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: 0-36 W. ILLINOIS ST. - UTILITY INSTALLATION - ROW ROAD SURVEY - CHICAGO, IL

Date: 1/19-20/2017

Technician: BRIAN SUMMIT

Inst Model: Lucum - 2221

Serial No.: 126496

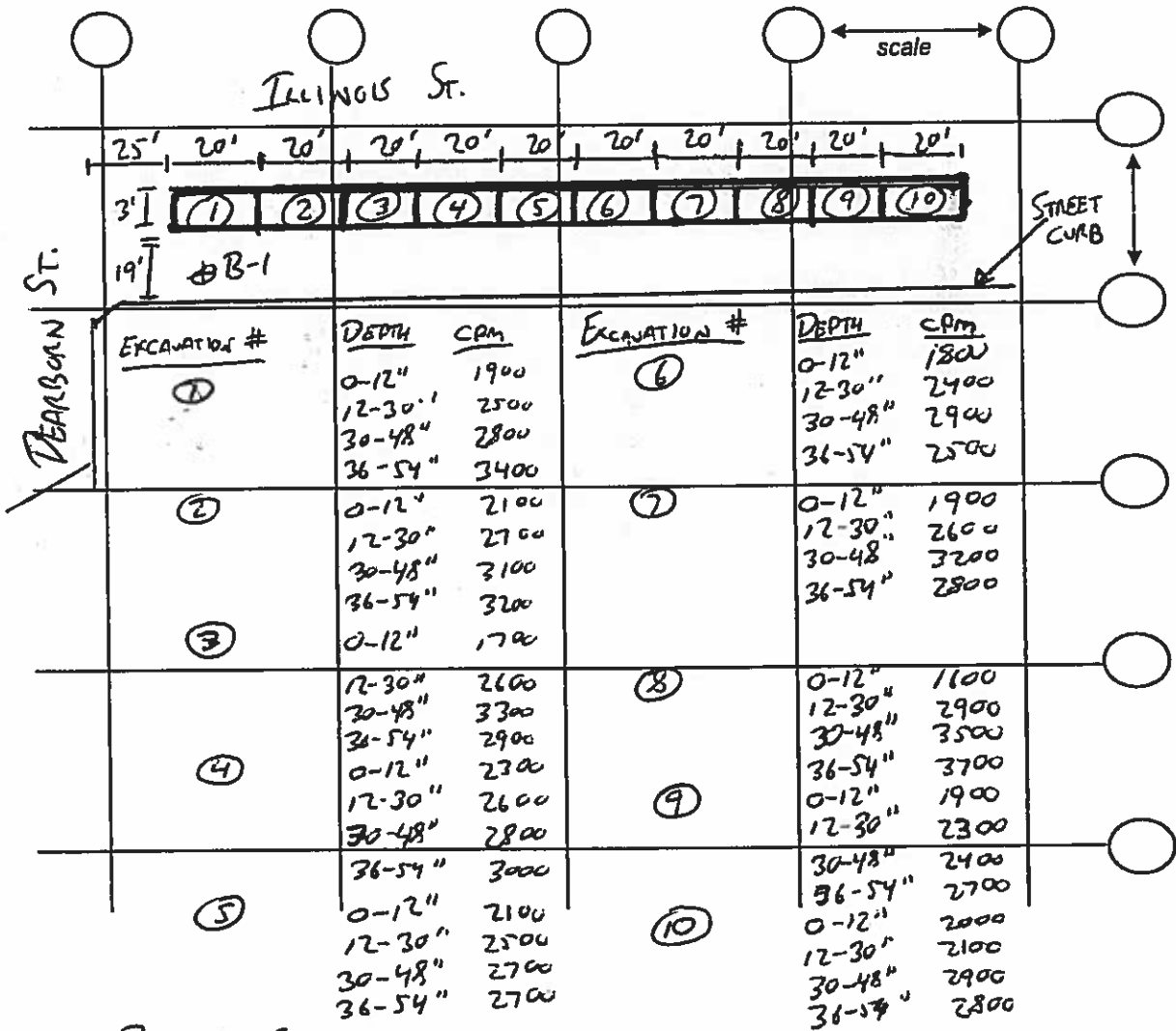
Probe Type: 1"x1" NaI / 2"x2" NaI
Shielded / Not Shielded

Lift Elevation: 0-36"

Background 1807 cpm

Action Level: 7029 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.



B-1 = Background = 1807 cpm (1 MW COUNT)

Radiation Survey Form

Location/ Project ID: Western Utilities Illinois St.

Date: 1/23/17 - 1/24/17

Technician: Steven Kowalczyk

Inst Model: Ludlum 2221

Serial No.: 127242 Probe SN: 168144

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

Lift Elevation: Surface - 38"

Background 1995 cpm

Action Level: 6,738 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.

