



March 8, 2021

Steven Griffin
Electric Conduit Construction
816 Hicks Drive
Elburn, IL 60119

RE: Thorium Monitoring 350-360 E. Ohio St.
CDOT Permit #1406873

Dear Mr. Griffin:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during the excavation and installation of a utility pole foundation at 350-360 E. Ohio Street in Chicago, Illinois. The monitoring was performed by Mark Dewald, SAHCI Health Physics Technician, on March 3, 2021.

Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 134542) with attached Ludlum Model 44-10 2"x2" NaI Detector (w/ 6" collimated lead shield). The instrument was last calibrated on July 28, 2020. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 7,228 counts per minute (cpm).

The background count rate for this location was measured as 1,584 cpm (average).

Soil Gamma Scans

Gamma surface scans were performed using the Ludlum Model 2221 Scaler / Ratemeter described above. Survey data was collected by lowering the detector into the excavation and recording the highest count rate for the floor and walls to a maximum excavation depth of 9 feet below ground surface. Soil was loaded directly into a vacuum 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 1,500 cpm to 3,200 cpm. No count rates were found at any time that exceeded the threshold limit of 7,228 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.

Glenn Huber, CHP
President

Radiation Survey Form

Location/ Project ID: 256-360 E. Ohio St. ECC

Date: 03/03/21

Technician: Mark Dewald

Inst Model: Ludlum 2221

Serial No. : 134542

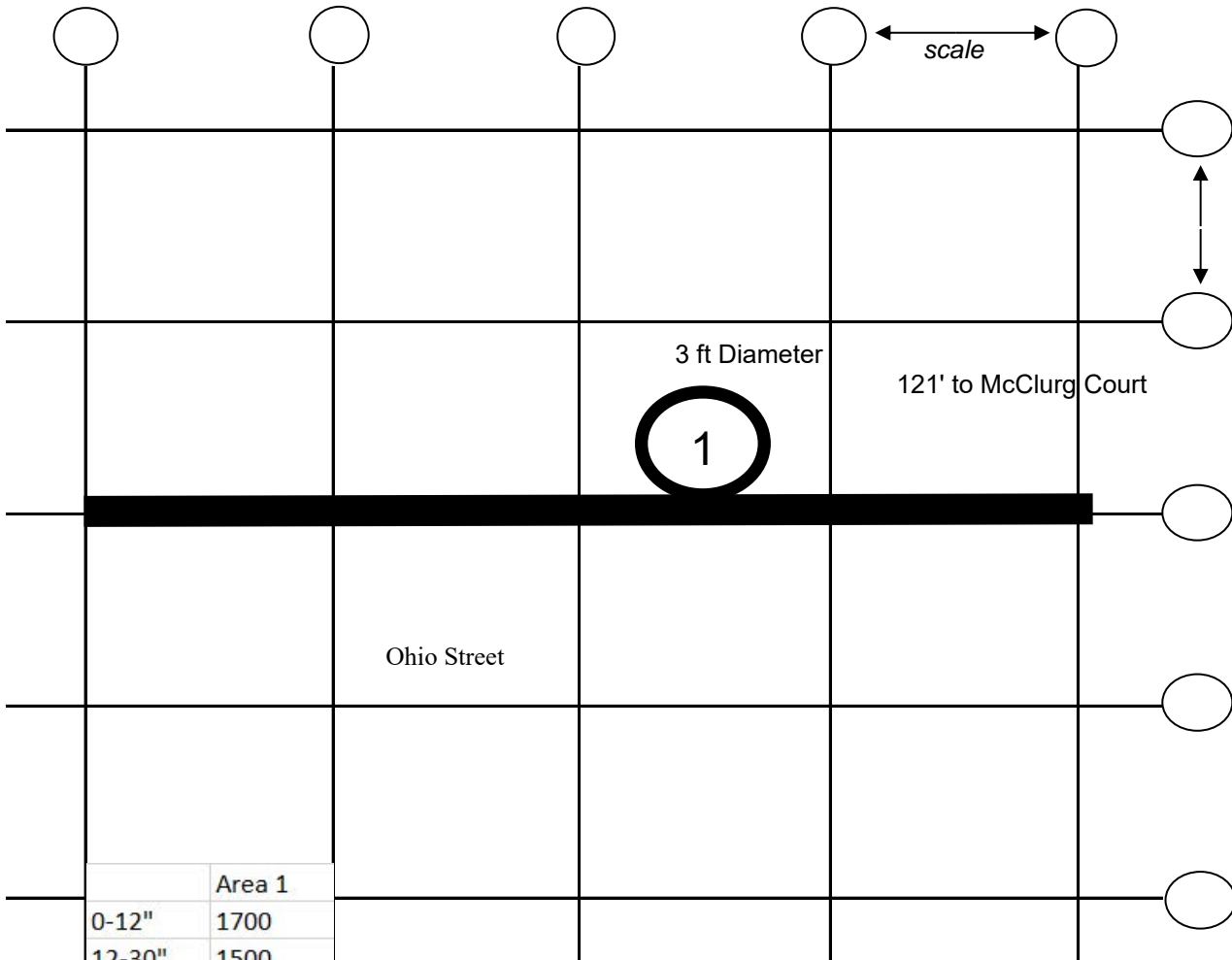
Probe Type: 1"x1" NaI / 2"x2" NaI
Shielded / Not Shielded

Lift Elevation: Surface to -9' BGS

Background 1,584 cpm

Action Level: 7,228 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.



	Area 1
0-12"	1700
12-30"	1500
30-48"	1600
48-66"	2400
66-84"	2500
84-102"	3200
102-120"	2400
108-126"	2100

= Excavated area