

Stan A. Huber Consultants, Inc.

Health Physics and Radiation Safety Services

200 North Cedar Road - New Lenox, Illinois 60451-1751 - (800) 383-0468 or (815) 485-6161 - FAX (815) 485-4433 - Email sahci@sahci.com - Home Page www.sahci.com

June 29, 2021

Angel Camacho SET Environmental 450 Sumac Road Wheeling, Illinois 60090

RE: Thorium Monitoring – 355 E. Chicago Riverwalk Tree Planting

City of Chicago Dept. of Assets, Information, and Services (AIS)

CDOT Permit: 1543411

Dear Mr. Camacho:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during the replacement of 4 trees at the Chicago Riverwalk (355 E. Riverwalk). The monitoring was performed by Brian Schmidt, SAHCI Health Physics Technician, on June 11, 2021. All activities were conducted under the guidance of document *SET General Procedure for Thorium Monitoring*.

<u>Instrumentation</u>

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 126497) with attached Ludlum Model 44-10 2"x2" Nal Detector (w/ 6" collimated lead shield). The instrument was calibrated on May 5, 2021. The US Environmental Protection Agency (USEPA) action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 6,383 counts per minute (cpm).

The average background count rate for this location was measured at 2,084 cpm.

Soil Gamma Scans

Gamma surface scans were performed using the Ludlum Model 2221 Scaler / Ratemeter described above. Survey data was collected by monitoring the spoils generated during the tree replacement and recording the highest count rate for each location.

The maximum gamma count rate for each boring was recorded on the attached Radiation Survey Form. The count rates in the excavation ranged from 2,400 cpm to 3,200 cpm. No count rates were found at any time that exceeded the threshold limit of 6,383 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

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Stan A. Huber Consultants, Inc. Radiatio	n Survey Form		
Location/ Project ID: CHRISTY WEER-	RIVERWALL - THEE LITTALLATION - RADIOLOGICAL SULVEY		
Date: 6/11/2021	Technician: Brian Schmot Serial No.: 176497 Lift Elevation: Surface (0-18")		
Inst Model: Luncum - 2221			
Probe Type: 1"x1" Nal / 2"x2" Nal Shielded Not Shielded			
Background 2084 cpm	Action Level: 6383 cpm		
Write grid designations in circles. Record highest corat grid intersections (if required). Shade areas of elev	unts for grid in cpm. Record 30 second counts ated counts and record max cpm.		
CONCRETE AREA	98' 10' 81' 14' 00 02 40 7' 14' 10' 81' PENEE LINE		
TARE ID RAJGE MAN			
2) 2100-2400 320 2) 2000-2300 240 3) 1800-2500 250	σ ο		
7200-2400 260			