



AECOM  
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March 9, 2023

Ms. Courtney Crenshaw  
Commonwealth Edison  
One Lincoln Center  
Oakbrook Terrace, IL 60181

RE: Streeterville Thorium Monitoring Results – Conduit Package Repair  
Permit Nos.: CDOT1777871 & CDOT1778377  
Permit Addresses: 435 N Lower Michigan Ave.

Dear Ms. Crenshaw:

Pursuant to conditions specified in the Right-of-Way (ROW) forms (attached) issued by the City of Chicago Department of Public Health (CDPH), radiation monitoring was required to be performed at the above referenced site. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance on February 20, 2023, for an excavation to repair an existing conduit package to reinstall cable.

The monitoring did not indicate that the fill soils were above the removal action level established by the U.S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA removal action level for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g) total radium (Ra-226 + Ra-228). Gamma radiation count measurements for the project were recorded using a Ludlum Model 2221 survey meter and a shielded 2 x 2 inch NaI probe (Model 44-10). For the instrument used (Ludlum S/N: 172039) the gamma count threshold indicative of the 7.1 pCi/g removal action level was approximately 7,652 counts per minute (cpm) shielded.

The excavation was located 10-feet west of the east curb of N Lower Michigan Avenue and 10 feet south of MH0367140. The excavation was 10-feet long, 6 feet wide and had a maximum depth of 72-inches below ground surface (bgs). The trench was monitored as a single section for the gamma monitoring (refer to tabulated results). Field gamma measurements within the opening did not exceed the instrument threshold previously stated and the maximum counts for the lifts ranged from 1,330 cpm to a maximum reading of 1,995 cpm (refer to Tabulated Results). The background gamma counts of nearby soils were measured at 1,099 cpm shielded. Based on field observations, there was no indication of the presence of radiologically-contaminated fill and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium.

A PDF copy of this letter will be forwarded via email to the CDPH and Verneta Simon (USEPA) to fulfill the requirements of the CDPH. Copies of the CDPH form, photographs, and the tabulated gamma results are included as attachments to this report.

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Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Daniel Domino  
Environmental Engineer II



Steven C. Kornder, Ph.D.  
Senior Project Geochemist

cc: Ahmad Nur, Chicago Department of Public Health  
Verneta Simon, USEPA  
Scott Glombicki, ComEd

Attachments: CDPH Permit Form with Map  
Tabulated Gamma Results and Photograph

**CDPH PERMIT FORMS**



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

FORM NO. CDPH.ROW.03 (STREETERVILLE Right-of-Way)

Notice is hereby given that the site you have requested a permit for is recorded with the City of Chicago Department of Public Health (CDPH) as potentially having environmental contamination on the site and adjacent right-of way. This environmental contamination could present a threat to human health and safety in connection with work performed at the site, or in the adjacent right-of-way, if proper safeguards are not employed.

A file containing detailed information regarding the aforementioned environmental contamination is available for review at CDPH at 333 S. State St., Room 200, Chicago, Illinois 60604 during normal business hours (8:30AM-4:30PM, Monday through Friday). Contact (312) 745-3152 for an appointment. This file must be reviewed and the remainder of this form completed before the permit can be issued if the ground is exposed or excavated. Please note that for some locations, additional health and safety procedures may be required by law.

Please complete the following:

I have reviewed and understand the documents, maintained by CDPH, regarding environmental contamination of the site and adjacent right-of-way. Further, I will ensure that all work at the subject site and adjacent right-of-way, and any monitoring required including but not limited to radiation monitoring, will be performed in a manner that is protective of human health and the environment and in compliance with all applicable local, state, and federal laws, rules, and regulations, especially those pertaining to worker safety and waste management. I will ensure that the results of any radiation monitoring and/or surveying conducted shall be provided to the CDPH and the United States Environmental Protection Agency within two (2) weeks of their completion. If any elevated levels of radioactive material are detected, I will immediately contact the United States Environmental Protection Agency at (800) 424-8802.

Applicant Name (print): Timothy Kuhn

Signature: Tim Kuhn

Site Address and Work Location (Describe exact site location and attach map):

435 N Lower Michigan Ave. Chicago

Nature of Work: Street opening on behalf of ComEd for below grade conduit and cable repair work.

Company Name, Address, Phone No.: Intren, 18202 W. Union Rd. Union IL 60180

General / Prime Contractor Name, Address, Phone No.: ComEd, 3500 N California Ave. Chicago 60618, 847-651-8829

Include subcontractor information if applicable

Safety Officer / Phone No. Intren, Matt Forkel, 224-281-8579

Radiation Contractor / Phone No. (if applicable) AECOM, Steve Kornder, 262-515-7700

Check if City Department Work [ ] Department Name:

CDOT Permit No.: DOT1777871

Today's Date: 01-25-2023 Expected Start Date: 01-26-2023 CDPH Approval / Date ahmad nur 01/27/2023

Please return this completed form to the Chicago Department of Transportation, Division of Infrastructure Management, Public Way Permit Office, City Hall - Room 905, 121 N. LaSalle St., Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday)

For CDPH Use Only

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## PHOTOGRAPHS AND TABULATED GAMMA RESULTS

## Gamma Survey Results ComEd

### Survey Equipment

CDOT No:	1777871
Ludlum 2221 S/N:	172039
Ludlum Probe S/N	PR174406
Cutoff (cpm)	7,652
Background (2/20/23) (cpm)	1,099
Personnel:	D. Domino
Dates of Screening:	2/20/2023

### Survey Results

Location	Section	Depth (inches)	Maximum Readings (cpm)
435 N Lower Michigan Ave.	1	0-8	pavement
		8	1,330
		26	1,910
		44	1,831
		62	1,995

**PICTURE 1: SOUTHWEST-FACING VIEW OF EXCAVATION AT 435 N LOWER MICHIGAN AVE.**





**PICTURE 2: NORTH-FACING VIEW OF COMPLETED EXCAVATION AT 435 N LOWER MICHIGAN AVE.**

