



AECOM
303 E. Wacker Drive, Suite 1400
Chicago, Illinois 60601

312-939-1000 tel
312-939-4198 fax

June 24, 2022

Mr. Kyle Carlson
Peoples Gas Light & Coke Co.
Environmental Services Department
200 E. Randolph Street, 24th Floor
Chicago, IL 60601

RE: Streeterville Thorium Monitoring Results – Gas Main Installation
Permit No.: DOT1668649
Permit Addresses: 240–300 N. Michigan Ave (Lower Michigan Ave.)

Dear Mr. Carlson:

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 May 17, May 18, and June 21, 2022, for an excavation to install a 6-inch plastic gas main through the intersection to tie-into the existing 30-inch steel gas main (refer to maps included with CDPH forms). The excavation was approximately 3 feet by 15 feet, with an additional excavation of 9 feet by 10 feet, both to a depth of 60-inches below ground surface (bgs).

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 meters and shielded 2 x 2 inch NaI probes (Model 44-10). For the instruments used the gamma count threshold indicative of the 7.1 pCi/g removal action levels were approximately 7,652 (S/N: 172039) and 6,726 (S/N: 176944) counts per minute (cpm) shielded.

The excavation of the trench on May 17 and May 18, 2022, was completed in three sections, located in the intersection of Lower Michigan Avenue and South Water Street. Field gamma measurements within this opening did not exceed the instrument threshold previously stated. The first excavation ranged from 907 cpm to a maximum reading of 4,900 cpm. The second excavation ranged from 1,100 cpm to a maximum reading of 1,900 cpm. The third excavation ranged from 3,000 cpm to a maximum reading of 4,700 cpm. No exposed soil was present at this site, so the background gamma count was determined by measuring nearby concrete surfaces. The background gamma count was 1,193 cpm. 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.

The excavation of the trench on June 21, 2022, was expanded off the north end of the previously dug and screened trench. Field gamma measurements within this opening did not exceed the instrument threshold previously stated. The trench expansion measured 9 feet by 10 feet. Readings were taken at 12-inch intervals in four quadrants, one in each quadrant of the square excavation. Quadrant 1 was in the northwestern quadrant with the rest following in clockwise numbering. The excavation readings for the four quadrants ranged from 1,482 cpm to a maximum reading of 2,561 cpm. Since there was not exposed surface soil in the vicinity of the excavation, the background gamma count was determined by measuring it within the adjacent previously dug trench at 3 feet bgs. The background gamma count was 3,474 cpm. 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.

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

Regards,



Maggie Nutter, EIT
Environmental Engineer



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

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

Attachments: CDPH Permit Form and Map
Tabulated Gamma Results and Photographs

CDPH PERMIT FORM



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): Evan Rosendahl Signature: Evan P Rosendahl

Site Address and Work Location (Describe exact site location and attach map): 240-300 N Michigan Ave (Lower Michigan Ave)

Nature of Work: Open cut 6" plastic gas main through intersection to tie-into existing 30" steel gas main

Company Name, Address, Phone No.: Peoples Gas, 200 E Randolph (773)794-6948

General / Prime Contractor Name, Address, Phone No.: MEADE ELECTRIC 625 Willowbrook Center Parkway Willowbrook, IL 60527 (312) 550-6111 Include subcontractor information if applicable

Safety Officer / Phone No. JOSEPH McHUGH (312) 285-7315

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

Check if City Department Work [] Department Name:

CDOT Permit No.: DOT1668649

Today's Date: 4/19/22 Expected Start Date: 5/9/22 CDPH Approval / Date ahmad nur 04/19/2022

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

PHOTOGRAPHS AND TABULATED GAMMA RESULTS

**Gamma Survey Results
People's Gas**

Survey Equipment

CDOT No:	1668649
Ludlum 2221 S/N:	172039
Ludlum Probe S/N	PR174406
Cutoff (cpm)	7,652
Background (cpm)	1,193
Personnel:	D. Domino
Date of Screening:	5/17/2022 – 5/18/2022

Survey Results

Location	Excavation	Depth (inches)	Maximum Readings (cpm)
240 – 300 N Michigan Ave (Lower Michigan Ave)	1	0-12	concrete
		12	3908
		30	4900
		48	3800
	2	0-12	1700
		18	1900
		36	1800
	3	0-12	3800
		18	4700

Gamma Survey Results People's Gas

Survey Equipment

CDOT No:	1668649
Ludlum 2221 S/N:	176944
Ludlum Probe S/N	RN21187
Cutoff (cpm)	6,726
Background (cpm)	3,474
Personnel:	M. Nutter
Date of Screening:	6/21/2022

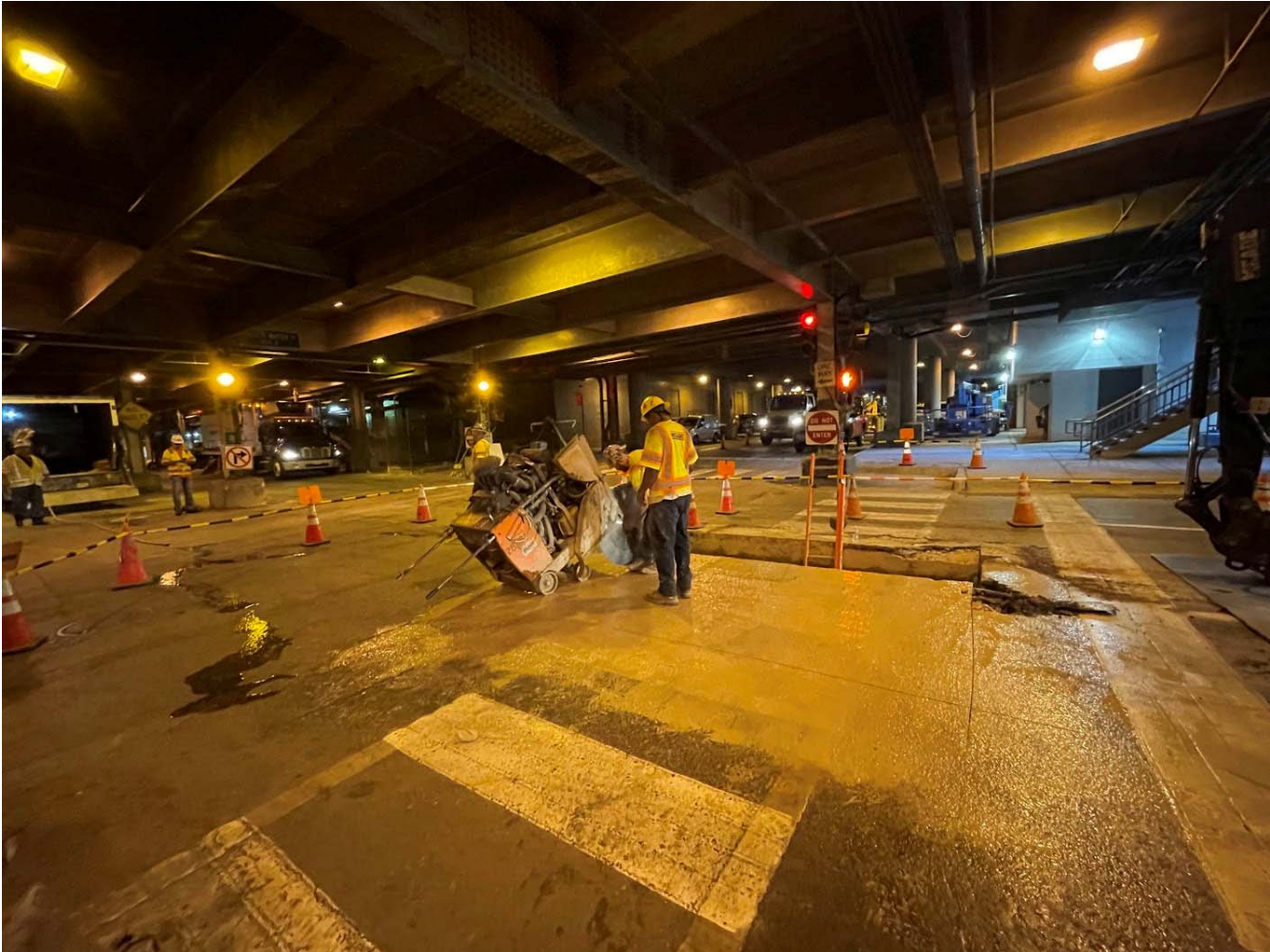
Survey Results

Location	Excavation	Depth (inches)	Maximum Readings (cpm)
240 – 300 N Michigan Ave (Lower Michigan Ave)	1	0-12	Concrete
		18	1763
		30	1845
		42	1688
		54	1560
		60	1482
	2	0-12	Concrete
		18	1923
		30	1800
		42	1881
		54	2016
		60	2019
	3	0-12	Concrete
		18	1974
		30	2173
		42	2012
		54	1897
		60	2489
	4	0-12	Concrete
		18	2233
30		2008	
42		1962	
54		1596	
60		2561	

PICTURE 1: VIEW OF THE TRENCH LOOKING SOUTH DOWN LOWER MICHIGAN AVENUE AFTER CONCRETE REMOVAL (MAY 17, 2022)



PICTURE 2: VIEW OF THE CUT CONCRETE EXPANDING TO THE EAST OF THE PREVIOUSLY DUG TRENCH ON THE NORTHWEST CORNER OF LOWER MICHIGAN AVE AND SOUTH WATER ST LOOKING NORTHWEST (JUNE 21, 2022)



PICTURE 3: VIEW OF THE COMPLETED EXCAVATION ON LOWER MICHIGAN AVE TO ACCESS GAS MAIN LOOKING SOUTHEAST (JUNE 21, 2022)

