



AECOM  
303 E. Wacker Drive, Suite 1400  
Chicago, Illinois 60606

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June 1, 2022

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

RE: Streeterville Thorium Monitoring Results – Gas Service Installation  
Permit No.: DOT1665429  
Permit Addresses: 450 – 479 E Wacker Lower

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 24 through May 25, 2022, for 135-feet of trenching at the referenced address to install a new gas service (refer to map included with CDPH forms). The trench was 5-feet wide by 28-inches below ground surface (bgs). An excavator was used to remove the fill soils.

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 the gamma count threshold indicative of the 7.1 pCi/g removal action level is 7,652 (S/N: 172039) counts per minute (cpm) shielded.

The excavation at this site extended across the City Auto Impound Yard approximately 11 feet west of the eastern property boundary fence. Measurements were recorded at nine sections each approximately 18-foot in length beginning at the south end of the excavation and tracking north. No gamma measurements recorded in these excavations exceeded the instrument threshold previously stated. The background gamma count of nearby soils was measured at 1,596 cpm. Gamma measurements at the site ranged from 541 to 3,289 cpm. The excavation then moved to the Lower Wacker union joint location where the new gas line was joined with the existing service line, at the north end of the trench. Three additional readings were taken within the trench spanning 23 feet in length. Gamma measurements at the union joint ranged from 564 to 3,604 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 forms, 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,



Eric Sulita, P.E.  
Environmental Engineer III



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

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

Attachments: CDPH Permit Forms and Maps  
Photographs and Tabulated Gamma Results

**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): Maria G. Oliver Signature: Maria G Oliver

Site Address and Work Location (Describe exact site location and attach map): 450-479 E Lower Wacker Drive

Nature of Work: New Service Installation

Company Name, Address, Phone No.: Peoples Gas, 200 E. Randolph St

General / Prime Contractor Name, Address, Phone No.: William Krueger, 773-475-3734 Include subcontractor information if applicable

Safety Officer / Phone No. Joseph McHugh (312) 285-7315

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

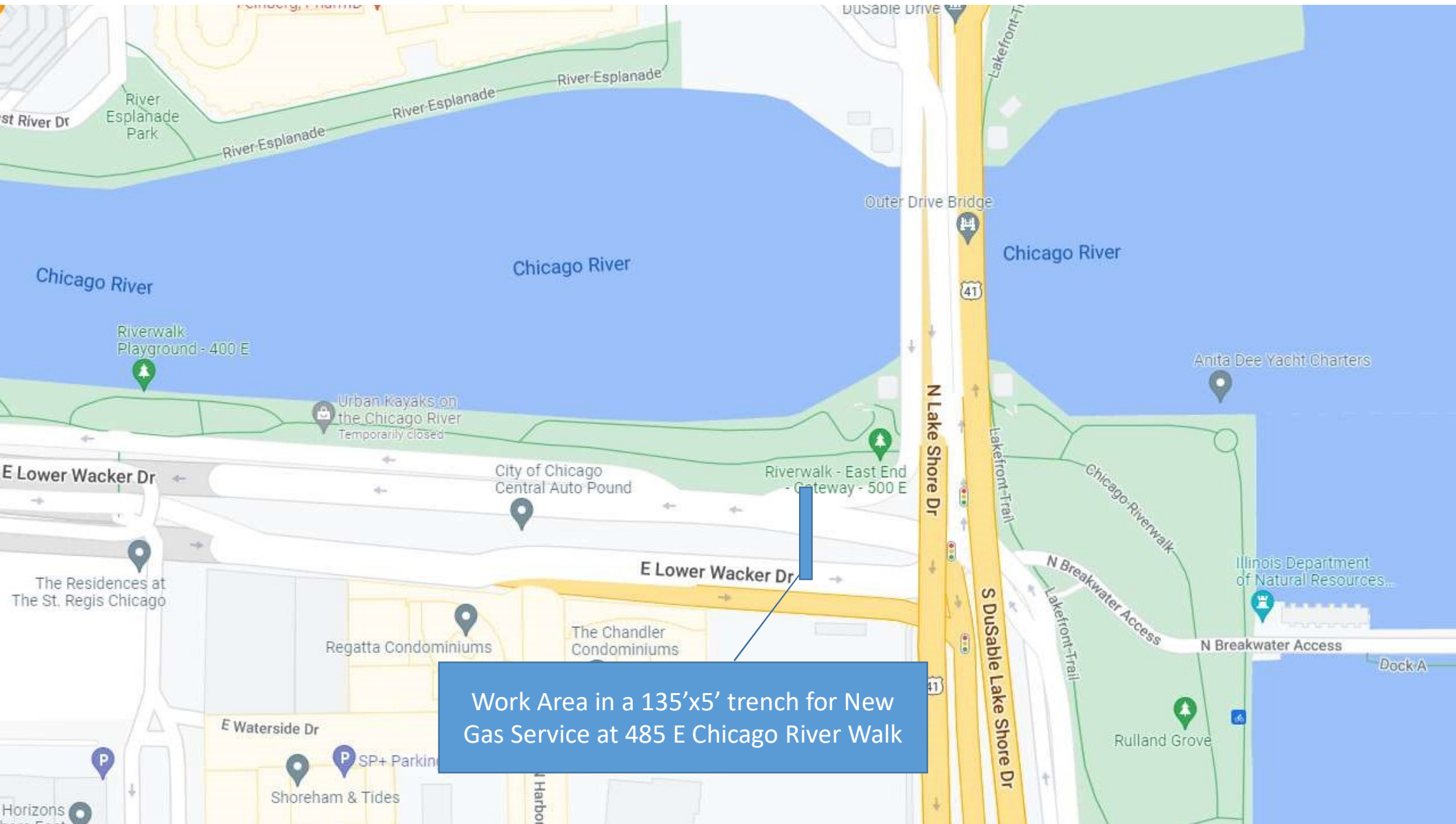
Check if City Department Work [ ] Department Name: n/a

CDOT Permit No.: DOT1665429

Today's Date: 4/20/2022 Expected Start Date: 4/22/2022 CDPH Approval / Date ahmad nur 04/20/2022

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



Work Area in a 135'x5' trench for New Gas Service at 485 E Chicago River Walk

## PHOTOGRAPHS AND TABULATED GAMMA RESULTS

## Gamma Survey Results - People's Gas

### Survey Equipment

CDOT Nos:	1665429
Ludlum 2221 S/N:	172039
Ludlum Probe S/N	PR174406
Cutoff (cpm)	7652
Background (cpm)	1440 - 1596
Personnel:	M. Sandstrom and D. Domino
Date of Screening:	5/24/2022

### Survey Results

Location	Excavation	Depth (inches)	Maximum Readings (cpm)
485 East Chicago Riverwalk	1	0-8	Concrete
		8	1252
		20	2053
		28	2506
	2	0-8	1763
		20	1922
		28	2015
	3	0-8	1024
		20	2432
		28	3289
	4	0-8	1038
		20	1815
		28	2083
	5	0-8	1484
		20	2518
		30	3002
	6	0-8	1130
		20	2206
30		2412	
Lower Wacker union joint	1	0-6	Concrete
		6	2642
		18	3406
		20	3604
	2	0-6	1942
		18	2207
		30	2483
	3	0-6	1425
		18	2064
		30	2384

**PICTURE 1: VIEW OF THE CUT TRENCH AREA PRIOR TO EXCAVATION AT 485 EAST CHICAGO RIVERWALK**





**PICTURE 2: VIEW OF THE COMPLETED CORROSION PROTECTION EXCAVATION AT 485 EAST CHICAGO RIVERWALK**



**PICTURE 3: VIEW OF THE UNION JOINT AREA OF THE EXCAVATION AT 485 EAST CHICAGO RIVERWALK**

