



AECOM
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979770

February 7, 2023

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 Service Line Retirement
Permit No.: CDOT1771269
Permit Addresses: 210-225 E Grand 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 January 30 and 31, 2023, for an excavation to install a new gas service line at the above project address (refer to map included with CDPH form).

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: 326720) the gamma count threshold indicative of the 7.1 pCi/g removal action level was approximately 7,197 counts per minute (cpm) shielded.

The excavation was located 10-feet north of the south curb of E. Grand Ave. The excavation was 65-feet long, extending south across E. Grand Ave. The excavation was, on average, 43-inches wide to a maximum depth of 62-inches below ground surface (bgs). The 65-foot trench was divided into six sections of approximately equal length for the gamma monitoring (refer to tabulated results). The sections were numbered from 1 to 6 starting at the south end of the trench. Field gamma measurements within these opening did not exceed the instrument threshold previously stated and the maximum counts for the lifts ranged from 1,246 cpm to a maximum reading of 3,468 cpm (see Table 2). The background gamma counts of nearby soils were measured at 2,691 cpm and 2,346 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.

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

Regards,



Cassidy Redding
Air Quality Scientist I



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

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

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): Maria G Oliver Signature: Maria G Oliver

Site Address and Work Location (Describe exact site location and attach map): 210-25 E Grand Ave

Nature of Work: New Service Installation

Company Name, Address, Phone No.: Peoples Gas, 200 E Randolph St, (312) 240-4692

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

Safety Officer / Phone No. Kyle Carlson 414-221-4076

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

Check if City Department Work [] Department Name:

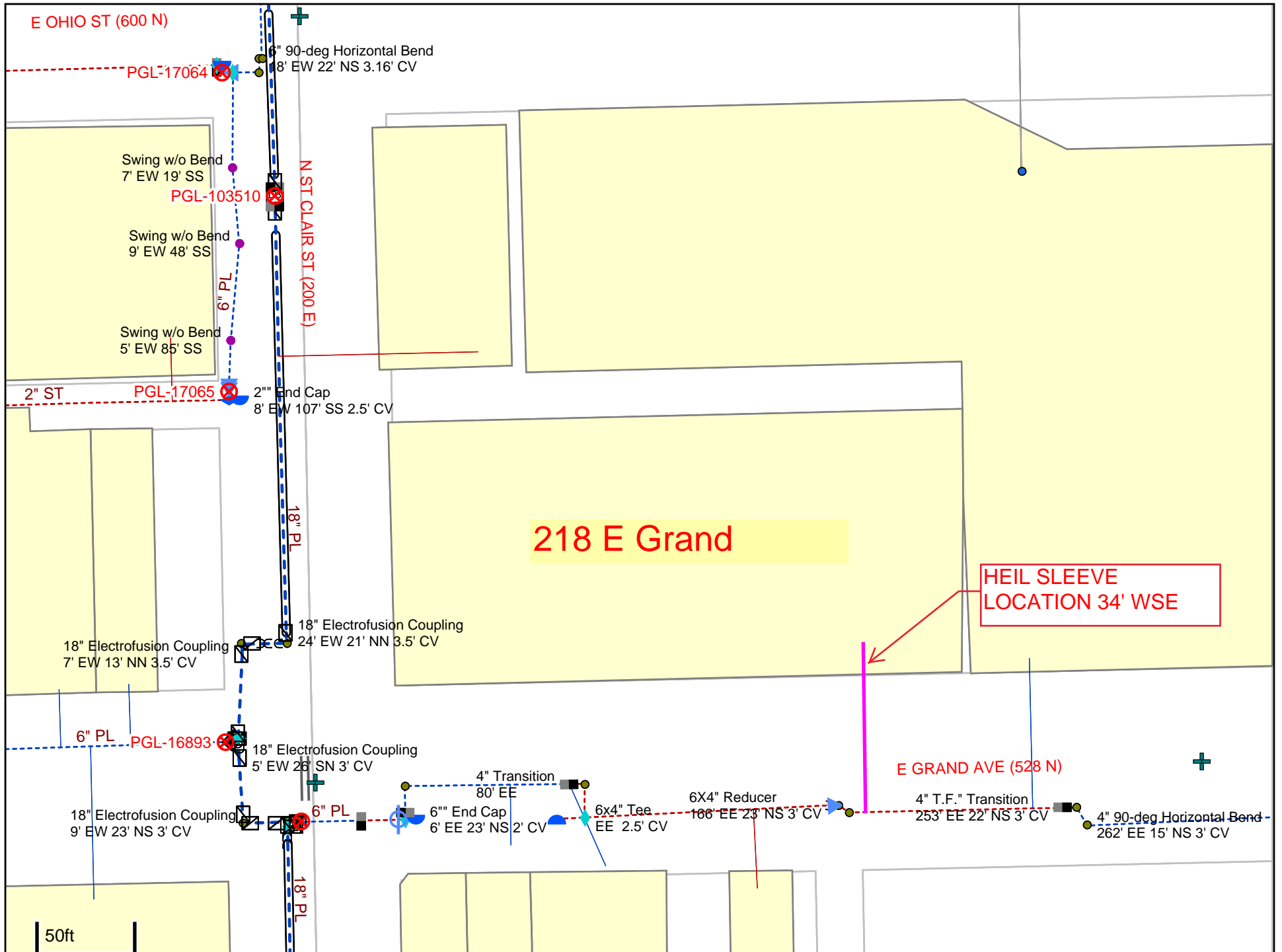
CDOT Permit No.: DOT1771269

Today's Date: 1/5/23 Expected Start Date: 1/9/23 CDPH Approval / Date ahmad nur 01/05/2023

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

Peoples Gas / North Shore Gas NaviGate



PHOTOGRAPHS AND TABULATED GAMMA RESULTS

Gamma Survey Results People's Gas

Survey Equipment

CDOT No:	1771269
Ludlum 2221 S/N:	326720
Ludlum Probe S/N	PR360158
Cutoff (cpm)	7,197
Background (1/30/23) (cpm)	2,691
Background (1/31/23) (cpm)	2,346
Personnel:	C. Redding
Dates of Screening:	1/30/23 and 1/31/23

Survey Results

Location	Section	Depth (inches)	Maximum Readings (cpm)
612-621 N. Rush St.	1	0-20	Asphalt
		20	1,998
		30	1,405
		50	1,246
		55	1,325
	2	0-20	Asphalt
		20	1,918
		38	2,963
		46	2,452
		48	2,243
		49	2,986
		55	3,094
	3	0-16	Asphalt
		16	3,145
		20	3,262
		35	3,209
		38	3,301
		50	3,245
		62	3,109
	4	0-20	Asphalt
		20	2,614
		34	2,800
		41	2,982
		48	3,204
	5	0-10	Asphalt
		10	1,967
		18	2,240
		28	2,455
38		1,872	
39		1,781	
50		3,468	
6	0-1	Gravel fill (on construction site)	
	17	2,486	
	31	3,119	
	34	3,161	

PICTURE 1: NORTH-FACING VIEW OF SECTIONS 1 AND 2 AT 210-225 E. GRAND AVE.



PICTURE 2: SOUTH-FACING VIEW OF COMPLETED EXCAVATION OF SECTION 3 AT 210-225 E. GRAND AVE.



PICTURE 3: NORTH-FACING VIEW OF COMPLETED EXCAVATION OF SECTION 4 AT 210-225 E. GRAND AVE.



PICTURE 4: NORTH-FACING VIEW OF COMPLETED EXCAVATION OF SECTION 5 AT 210-225 E. GRAND AVE.



PICTURE 5: WEST-FACING VIEW OF COMPLETED EXCAVATION OF SECTION 6 AT 210-225 E. GRAND AVE.

