



AECOM
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Chicago, Illinois 60606

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November 7, 2019

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

RE: Streeterville Thorium Monitoring Results – Service Line Installation
Permit No.: DOT1157678
Permit Address: 211 N. Harbor Dr., Chicago, Illinois
AECOM Project No. 60157647.126

Dear Mr. Prasad:

Pursuant to conditions specified in the permits (see attached) issued by the City of Chicago, radiation monitoring was required to be performed at the above referenced site. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance on October 25 and 28, 2019 for a trench excavation to install a new service line.

Surveying was performed within the excavation as the fill was removed at approximately 40 feet east of the intersection of N. Harbor Dr. and N. Harbor Service Dr. Refer to the attached annotated drawing for the approximate location of the excavation. The excavation was conducted to install a new gas service line. The work consisted of a several connected trenches leading into the Site from an existing in gas service line within N. Harbor Service Dr. The trench was approximately 50-feet long with varying depths between 1.5-feet to 4-feet 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 Ludlum Models 2221 survey meter and an unshielded 2 x 2 inch NaI probe (Model 44-10). For the instruments used, the gamma count threshold indicative of the 7.1 pCi/g removal action level were 6,818 (S/N: 326720) and 6,620 (S/N:172039) counts per minute (cpm) shielded. The field background measurement for the instrument was 1,700 to 2,000 cpm observed at a nearby lawn area.

The field gamma measurements within the trenches during the excavation process did not exceed the instrument threshold previously stated and ranged from a minimum of 1,100 cpm to a maximum of 2,900 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 copy of the permit, annotated drawing documenting the area where work was performed, and the tabulated gamma results are included as attachments.

As part of the permit conditions, a PDF copy of this letter is being forwarded to Terry Sheahan (CDPH) and Verneta Simon (USEPA) to fulfill the requirements of the CDPH.

Permit No.: DOT1157678
Permit Address: 211 N. Harbor Dr.,
Page 2

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

Regards,



Andrew Kozak
Geologist



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

cc: Terry Sheahan, Chicago Department of Public Health
Verneta Simon, USEPA

Attachments: Permit
Annotated Drawing and Gamma Results

PERMIT



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): WILLIAM KRUEGER

Signature: William Krueger

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

211 N. HARBOR DRIVE, WORK WILL BE IN A
22'X5'X4' TRENCH AT 734' SE E FIELD BD.
AND AT 18' NE SW

Nature of Work: GAS SERVICE

Company Name, Address, Phone No.: PEOPLES GAS 4201 W. 36TH ST CHICAGO IL, 773-475-3734

General / Prime Contractor Name, Address, Phone No.: KS ENERGY 3816 CARNATION ST. FRANKLIN PK IL, 7082369202
Include subcontractor information if applicable

Safety Officer / Phone No. Danielle Clopton (312) 240-6674

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

Check if City Department Work ☐ Department Name: _____

CDOT Permit No.: DOT#1157678

Today's Date: 9/19/2019

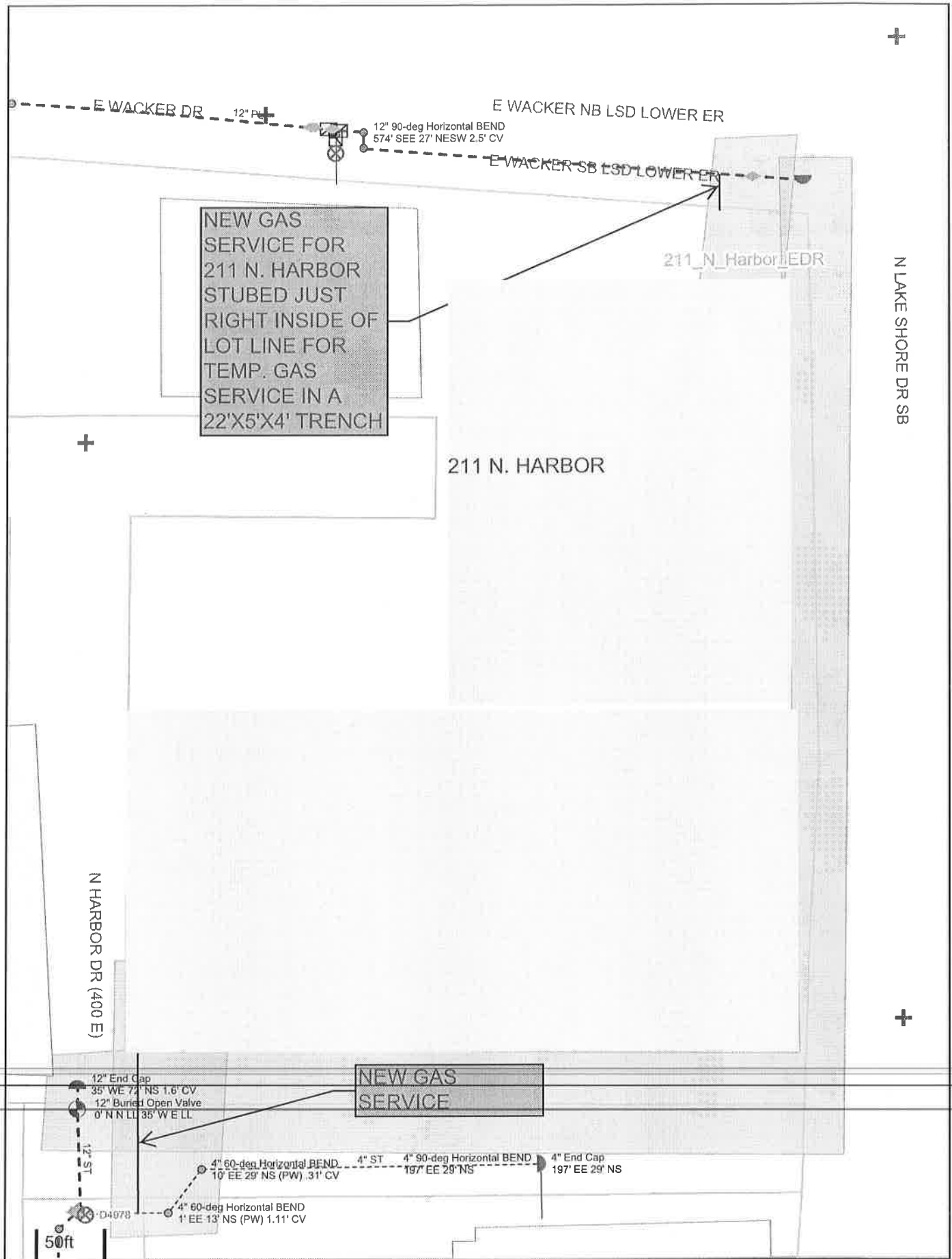
Expected Start Date: 10/16/2019

CDPH Approval / Date

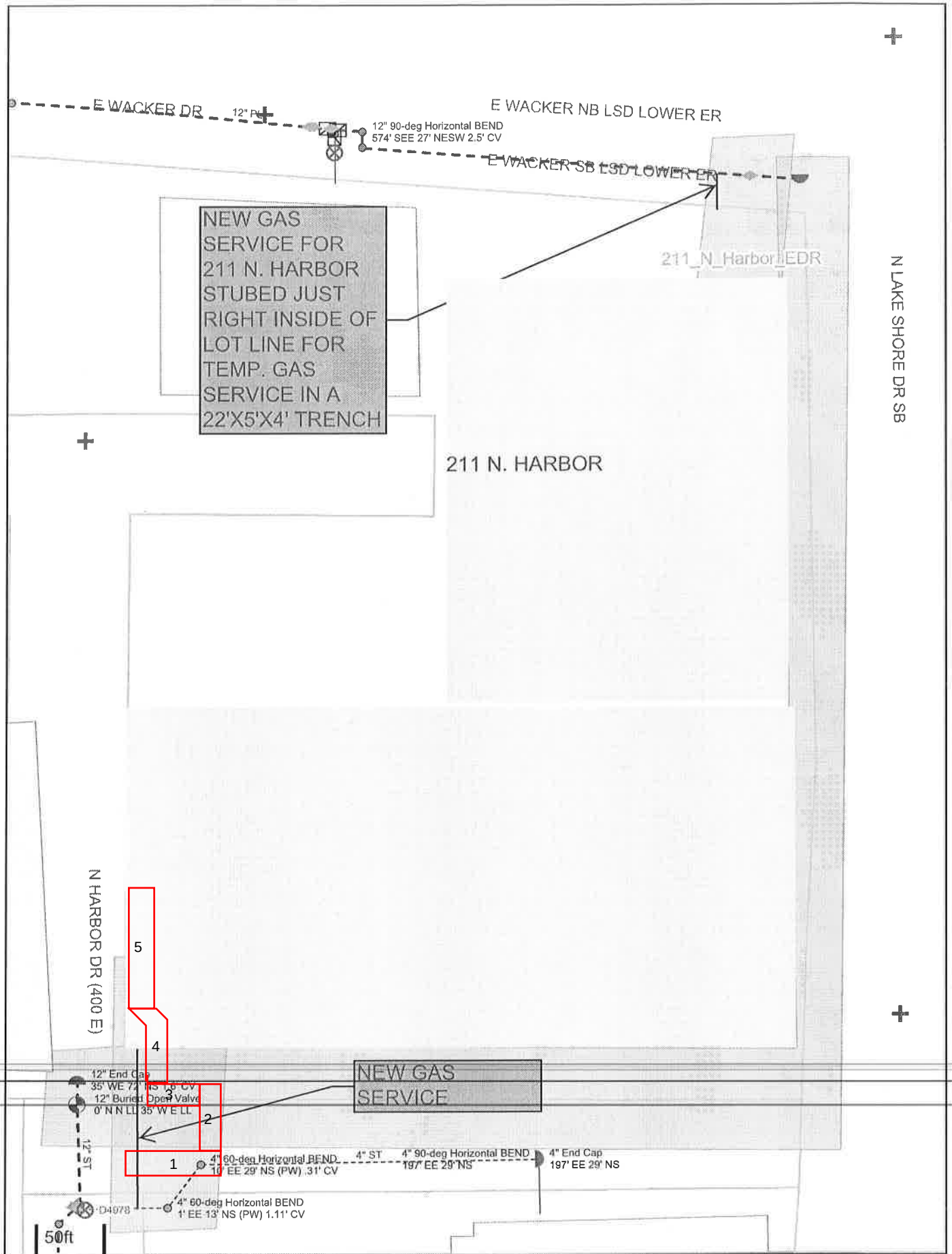
Sheahan 9-23-19

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



ANNOTATED DRAWING AND GAMMA RESULTS



Gamma Survey Results
People's Gas

Survey Equipment

Location:	211 N Harbor Dr.
Ludlum 2221 S/N:	326720, 172039
Probe 2x2 NaI S/N:	360158, PR174406
Cutoff:	6818 cpm, 6620cpm
Background:	1700-2000 cpm
Personnel:	A. Kozak, K. Korczak
Date of Screening:	10/28/19-10/30/19

Survey Results

Location	Depth (inches)	Readings (Long Cord - cpm)
1	0-18	concrete/asphalt
	18-36	1,900
2	0	1700-2100
	18	1900-2400
	36	2200-2700
	36-48 (spoil)	1400-2200
	48	2200-2900
3	0	1100-2100
	18	1800-2500
	36-48 (spoil)	1400-2400
4	0	-
	18	1200-2300
	36	1600-2900
5	0	-
	12	1600-2100
	30	1900-2500
	36-48 (spoil)	1400-2600