



AECOM  
100 S. Wacker Drive, Suite 500  
Chicago, Illinois 60606

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

February 15, 2016

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

RE: Radiological Survey of Gas Main Relocation – Navy Pier Polk Park Fountain Renovation  
Permit No.: DOT580653  
Permit Address: 227-28 East Ontario Street, Chicago, Illinois  
AECOM Project No. 60157647

Dear Mr. Jouras:

Pursuant to conditions specified in a permit (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 February 9, 2016 for a trench excavation to for the installation of a gas service line to a new development.

Surveying was performed on the soil removed at 228 East Ontario Street (see sketch) required to address a new gas line installation. The excavation was approximately a 25 foot trench to a depth of 40 to 60 inches below ground surface (bgs). The trench was excavated to a depth of 40 inches bgs at the southern end to the trench and sloped to the north to approximately 60 inches 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 instrument used, the gamma count threshold indicative of the 7.1 pCi/g cleanup value is 18,318 (S/N: 126497) counts per minute (cpm) unshielded.

The field gamma measurements within the excavation during the excavation process did not exceed the instrument threshold previously stated and ranged from a minimum of 5,400 cpm to a maximum of 10,000 cpm unshielded. The general subsurface stratigraphy was composed of urban fill and fine tan sand backfill commonly associated with gas line installations. 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 and a field sketch documenting the area where work was performed, have been included as attachments.

As part of the permit conditions, this letter has been forwarded to:

Chicago Department of Public Health  
Attention: Ms. Rahmat Begum  
333 South State Street, Room 200  
Chicago, Illinois 60604

Permit No.: DOT580653  
Permit Address: 227-28 E. Ontario Street  
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Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Andrew Kozak  
Environmental Engineer



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

cc: Rahmat Begum, Chicago Department of Public Health  
Verneta Simon, USEPA

Attachments: Permit

**PERMIT**

Permit # DOT580653

**DOT Public Way Opening  
Opening in the Public Way**



City of Chicago  
Department of Transportation  
(312) 744-4652

Received Date: January 16, 2016 5:32 am

**100433  
ISSUED**

PEOPLES GAS  
200 E RANDOLPH ST  
CHICAGO, IL 60601

NIEVES, MARISOL (312)240-4857

**PERMIT DATES**

February 03, 2016 through March 01, 2016

**PERMIT DETAILS**

**Public Way Opening for the purpose: NEW SERVICE**

**Excavation may commence on February 03, 2016 - NO SOONER**

**227 - 228 E ONTARIO ST - Number of Openings: 1**

**Curb Lane, Parkway, Sidewalk, and Traffic Lane**

**35 Ft (L) x 4 Ft (W) x 3 Ft (D)**

**Subcontractors:**

NPL CONSTRUCTION  
4554 W NORTH AVE  
CHICAGO, IL 60639  
(773)772-8920

**Restrictions:**

1. If Arterial Street Inside CBD, Then Start no earlier then 8:00 A.M. and end no later then 8:00 P.M.
2. Contractor must notify DIGGER at 312-744-7000 no less then 48 hours (exclusive of Saturdays, Sundays and Holidays) but no more then 14 calendar days in advance of the start of the excavation or demolition, unless the excavation date was provided with the application and remains unchanged. Prior to 26 calendar days the Contractor must notify DIGGER to renew the dig date! It is the Excavator's responsibility to request refreshing of marks when needed, but no longer than 28 calendar days after the last requested date. When applicable, all excavation areas are to be clearly marked in safety white paint prior to calling DIGGER. White paint is not required for joint meets or emergency work. Excavators requesting dig tickets are responsible for the protection of utility markings at the job site. Any markings of underground utilities utilizing utility colors must be done by facility owners or authorized agents only.
3. A copy of the permit must remain on-site for inspector's review.
4. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
5. Contractor must secure plating over all openings in the roadway and secure all sidewalk/parkway openings during non-working hours until such time when the road surface is restored.
6. No work in or use of the public right of way is to be done when a special event is taking place. It is up to the applicant to determine if an event is scheduled. To obtain a listing of programs or events within the City of Chicago please dial 311 when you are within the City boundaries.
7. 8am to 8pm. All work is within the Pepper Construction site. Must maintain two WB lanes at all times.
8. Autograph Hotel owners and Pepper Construction is responsible for the restoration of the project.

**Fees:**

02/03/2016 DOT\_PWO - Degradation Fee

CAPS: BB96  
Amount: \$ 2,500.00

02/03/2016 DOT\_PWO - Street Opening Fee

CAPS: AH04  
Amount: \$ 1,908.00

**Total Fees: \$4,408.00**

**EFFECTIVE DATES OF PERMIT**

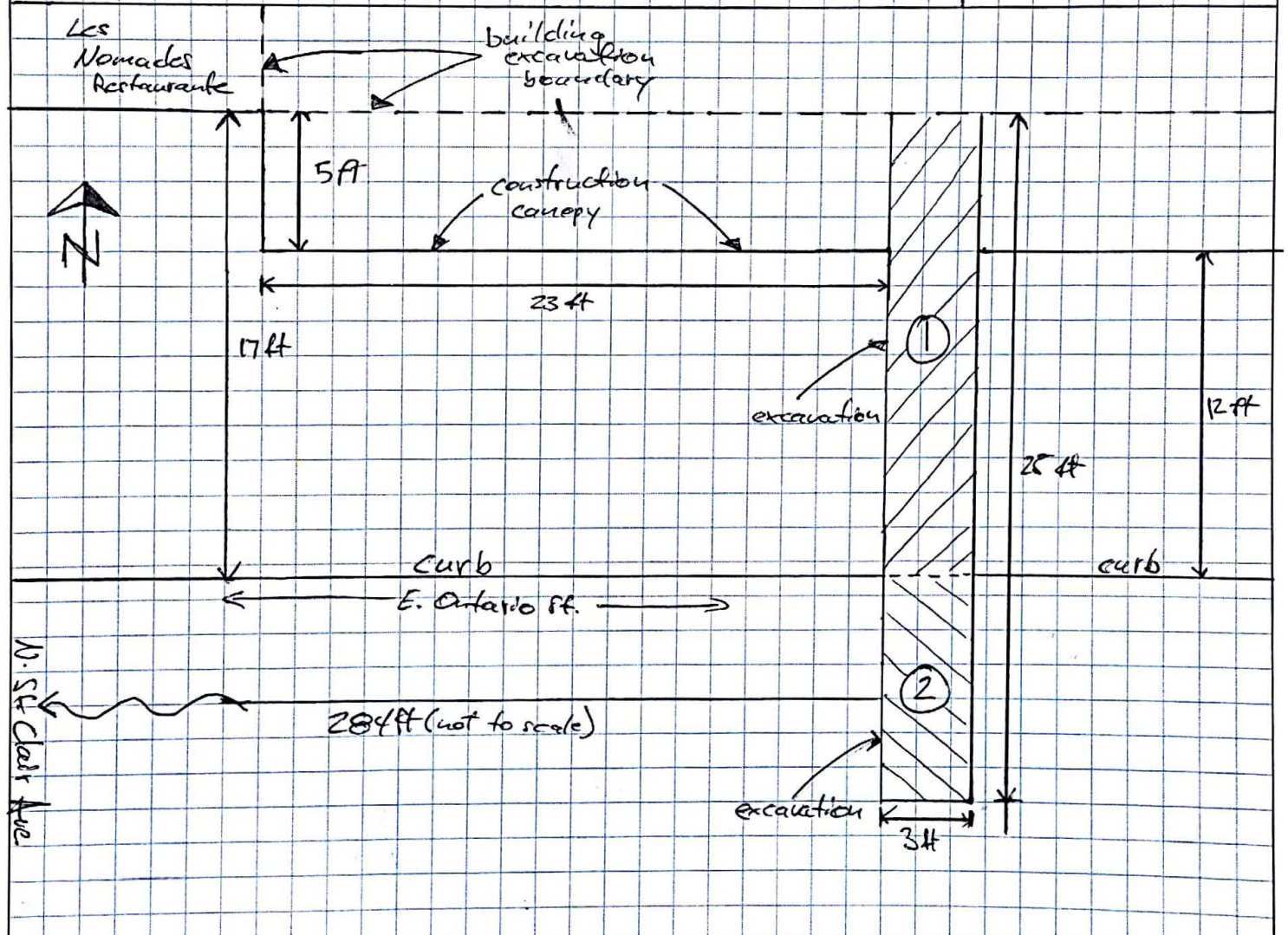
Current: February 03, 2016 through March 01, 2016 ( Input date: January 16, 2016 5:32 am )

**END OF PERMIT**

**SKETCH**

Equipment

Cudlum 2221 S/N: 126497  
 Diabe 3x2 NaI S/N: 171991  
 unshielded: 18,318 cpm  
 shielded: 6,018 cpm  
 background: 7,600 cpm  
 (tree/bush planters along the south side of Ontario)



Readings

① Depth	CPM	② Depth	CPM
0-6" (concrete)	<del>18,318</del>	0-14" (concrete)	
6" (floor scan)	6,000 - 7,200	14" (floor scan)	5,400 - 7,000
24" (floor scan)	5,600 - 8,100	24" (floor scan)	7,100 - 10,100
24-60" (spot scan)	5,400 - 7,100	40" (floor scan)	4,500 - 5,600