



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

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

August 2, 2015

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

RE: Radiological Survey of Right-of-Way Utility Excavation
Permit No.: 563494079
Permit Address: 399 E Monroe St
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 July 2, 2015 for an excavation on the street to install sacrificial anodes to the existing Peoples Gas line in order to prevent corrosion.

Surveying was performed on the soil removed from a vacuum excavated borehole at 399 E. Monroe near the intersection of Lake Shore Drive (see sketch) to a depth of 4-feet below ground surface (bgs) required for installation of the anode protection on the existing gas service piping. The borehole was approximately 18-inches diameter from 0 to 2.5-feet bgs and 8-inches in diameter from 2.5-feet to 4-feet bgs. For this excavation, a vacuum truck was used to remove the soil. Therefore, the probe had to be lowered into the borehole at 12 to 15-inch intervals. Backfill in the vicinity of the gas main was primarily dark gray clay.

The monitoring did not indicate that the fill soils were above the cleanup value established by the U.S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA cleanup value 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 made using Ludlum Model 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 19,055 counts per minute (cpm) unshielded.

The field instrument gamma background readings for the area were measured at approximately 4,800 cpm unshielded as measured on the sidewalk E. Monroe Street. Field gamma measurements greater than twice the background count may be considered anomalous results that potentially indicate contaminated fill soil is in close proximity to the excavation. However, there are naturally materials such as granite, clay and brick that may be above twice background and the USEPA cleanup value. In addition, the configuration of the excavation may also influence field results and narrow excavations will lead to results that are biased high for unshielded probes. Thus, the biased high in-situ gamma counts observed in this case were the result of an unshielded probe and the small diameter borehole. This was confirmed by the collection of gamma readings taken on soil removed from the excavation. The soil removed from the borehole and set on the street measured gamma counts at 4,800-5,700 cpm. Therefore, gamma measurements taken during the excavation activities did not indicate the potential presence of thorium contaminated fill soil within the excavation.

Permit No.: 563494079
Permit Address: 399 E Monroe St
Page 2

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

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

Regards,



Matthew Kennedy
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 # 563494079

AMENDED



Received Date: May 14, 2015 9:54:5

**INTEGRYS ENERGY GROUP/PEOPLES GAS
200 EAST RANDOLPH
STREET
CHICAGO, IL 60601**

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

BUDZINSKI, LAURA 773-542-7830

ACTIVITY HOURS

**Start no earlier than 9 AM. Stop no later than 4 PM. - Street Opening
(Sidewalk, Parkway, Curb Lane & Traffic Lane)**

DATES

Jun 27, 2015 through Jul 2, 2015

ACTIVITIES

Street Opening

Dig #: TBD

(Sidewalk, Parkway, Curb Lane & Traffic Lane):

There will be 1 opening(s) in the public way for the purpose: CUAN DIG.

1 Feet x 1 Feet x 1 Feet

Excavation may commence on - NO SOONER.

399 E MONROE DR

MEADE ELECTRIC; PGL Stand <88776> CORR WORK

ENVIRONMENT SIGN OFF BY RAHMAT BEGUM 6/19/15

RESTORATION AGREEMENT (KEYHOLE)

OK INSPECTOR G.K 6/22/15

OK M SIMON

Restrictions:

1. A copy of the permit must remain on-site for inspector's review.
2. Permit fees must be paid within 24 hours of the date of issuance. Failure to pay will result in you being considered in violation of the terms and agreement of the permit and subject to any applicable fine and fees as if you never attained a permit. Additionally, you will still be responsible for the cost of the original permit. Monthly billing accounts are not applicable to the 24 hour payment criteria but failure to pay the monthly bill by the due date will result in the same penalties applying.
3. All directional boring must be pre-approved by the Office of Underground Coordination.
4. 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.
5. All traffic control will be the responsibility of the contractor and must comply with all MUTCD standards.
6. Restore all lanes to normal operation during non-working hours.
7. Must use flagmen and/or arrow boards to maintain traffic operations through the work zone.
8. 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.
9. 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.
10. Contractor must notify DIGGER at 312-744-7000 no less than 48 hours (exclusive of Saturdays, Sundays and Holidays) but no more than 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!
11. 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.
12. Pursuit to City Ordinances 8-32-140 through 170 use of pneumatic equipment must not begin before 8:00 A.M. or continue after 8:00 P.M.
13. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
14. Permanent base pavement restoration to follow within 5 days after the completion of underground work.
15. All pavements and pavement markings are to be restored in accordance with CDOT Construction Standards.
16. All street openings must be restored with concrete base to grade.
17. Work to be performed as per plans and specifications.
18. Streets recently resurfaced must be restored to proper standards (resurface to nearest 1/4 pt, see CDOT Construction Standards for further details).
19. **WARNING: THIS WORKSITE(S) CONTAINS PETROLEUM MATERIAL. ANY QUESTIONS PERTAINING TO HANDLING OF MATERIALS, CONTACT THE DEPT. OF ENVIRONMENT AT 312-744-3152.**

Restrictions:

- 20. WARNING: THIS WORKSITE(S) CONTAINS RADIOACTIVE MATERIAL. ANY QUESTIONS PERTAINING TO HANDLING OF MATERIALS, CONTACT THE DEPT. OF ENVIRONMENT AT 312-744-3152.
- 21. This worksite is a MORATORIUM STREET and must be restored to CDOT standards.
- 22. BIKE FACILITY: On streets with bike markings and/or bike signage the CDOT Bike Program can provide existing pavement marking plans and details. Please contact CDOT Bike Program representative Bradley Topol in advance of activity to ensure restoration of pavement markings. Contact at (312) 744-0513 or at CDOTBikes@cityofchicago.org

SHARED LANE YIELD TO BIKES signs must be posted if bike traffic is shared with vehicular traffic. Please see the CDOT Rules and Regulations For Construction in the Public Way for more guidance on bike temporary traffic control.

- 23. 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.
- 24. It is the responsibility of the applicant to fund Traffic Control Aides if the City deems it necessary due to heavy congestion situations.
- 25. Pursuit to City Ordinances 10-20-150 and 10-28-281.3 a re-inspection fee of \$100 may be assessed for each inspection conducted after the initial inspection.
- 26. All metal plates used for public way construction or placed within the right-of-way must indicate Ownership!

Street Opening (Sidewalk, Parkway, Curb Lane & Traffic Lane)

06-26-2015 - Fee Pavement Opening

CBD:	Y	Cost Per EA: \$	454.00	CAPS:	300-84-2135-256
Tiered:	N	# Of EA:	1.00	Late charge: \$.00
Mora:	Y			Amount: \$	908.00

Total Fees: \$ 908.00

Grand Total Fees: \$ 908.00

Affected CUAN Sites: 7, 15, 21, 22, 24, 28, 29, 31, 38, 53, 61, 68, 70, 79, 141, 148, 157

EFFECTIVE DATES OF PERMIT

Current: Jun 27, 2015 through Jul 02, 2015 (Input date: May 18, 2015 8:20:25 a.m.)
Previous: May 14, 2015 through Jul 02, 2015 (Input date: Jun 26, 2015 8:20:17 a.m.)
Previous: May 14, 2015 through Jun 13, 2015 (Input date: May 14, 2015 9:54:05 a.m.)

END OF PERMIT

SKETCH

Job 399 E Monroe

Project No. 60157647 T61

Sheet 1 of 1

Description Rad screening in borehole

Computed by Matt Kennedy

Date 7/2/15

Checked by SCK SCK

Date 8/2/15

Reference

