



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

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

September 11, 2015

Ms. Michele Pisterzi  
AT&T  
2427 Union Street  
Blue Island, Illinois 60406

RE: Radiological Survey of Right-of-Way Utility Excavation  
Permit No.: 571882591  
Permit Address: 326-336 N. Columbus Drive  
AECOM Project No. 60163572

Dear Ms. Pisterzi:

Pursuant to conditions specified in a permit (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 monitoring on September 9 and 10, 2015 for utility excavation.

Surveying was conducted in 18-inch lifts for soil removed from an approximately 10-foot wide by about 15-foot long trench excavation to a depth of 6 feet in the Right of Way (ROW) at the above referenced address (refer to annotated sketch). The excavation was located south E. Wacker Dr. on the western side of the lowest level of N. Columbus Dr. The U.S. Environmental Protection Agency (USEPA) cleanup value for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g) total radium (Ra-226 + Ra-228). The monitoring revealed no indication of soil above the cleanup value established by the USEPA for the Streeterville area of Chicago.

Gamma radiation count measurements for the project were made using a Ludlum Model 2221 survey meter and an unshielded 2 x 2 inch sodium iodide (NaI) probe Model 44-10. For the instrument used, the gamma count indicative of the USEPA 7.1 pCi/g cleanup value was 18,276 counts per minute (cpm) unshielded. The field instrument gamma background for the area was measured at approximately 4,589 cpm unshielded. Field gamma measurements greater than twice the field background represent potential anomalous results that require more cautious and frequent field screening, but are not necessarily indications of the presence of thorium contaminated fill soil. Although none were observed for this project, gamma readings above 18,276 cpm would be considered a potential indication of the presence of radiologically contaminated fill soil.

The field gamma measurements within the excavation and of the spoil materials generated during the excavation process did not exceed the field instrument threshold equivalent to the USEPA cleanup value and ranged from a minimum of 4,400 cpm to a maximum of 6,200 cpm unshielded. Thus, there was no indication of the presence of radiologically-contaminated fill soil and/or an exceedance of the USEPA cleanup value of 7.1 pCi/g total radium.

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

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

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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 Geoscientist

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

Attachments: CDOT Permit  
Sketch

**PERMIT**

**Permit # 571882591**

A006B4Y  
AMENDED  
Steve K@ Aecom  
SONOMA  
Steve T.  
Matt S L. Vasquez  
Raleigh  
Terine  
Blanca S.



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

Received Date: Aug 6, 2015 9:54:13  
SBC ILLINOIS  
2427 UNION  
BLUE ISLAND, IL 60406  
MICHELE 708-824-2817

**ACTIVITY HOURS**

Start no earlier than 9:00 A.M. Stop no later than 4:00 P.M. - Parking  
Work Vehicle - Maint (Curb-Traffic Lane)

**DATES**

Aug 6, 2015 through Sep 19, 2015

**ACTIVITIES**

**Parking Work Vehicle - Maint (Curb-Traffic Lane):** Dig #: TBD

A WORK VEHICLE vehicle will be using 50 feet in the Curb and Traffic Lanes  
for Maintenance.

Vehicle License Number N/A and State issued N/A.

229 - 249 N COLUMBUS DR

ASE WORK  
MH ACCESS - TO ROD / ROPE & PLACE FOR ASE WORK  
CONTRACTOR: ATT / SONOMA  
JOB NO# A006B4Y / REQ 2015-1390

OK J MCDONALD  
250 - 326 N COLUMBUS DR

301 - 303 E WACKER DR

**Street Opening (Curb Lane & Traffic Lane):****Dig #: TBD**

There will be 1 opening(s) in the public way for the purpose: EXPOST AND RPR CONDUIT.

10 Feet x 15 Feet x 5 Feet

Excavation may commence on - NO SOONER.

229 - 249 N COLUMBUS DR

JOB # A006B4Y

250 - 299 N COLUMBUS DR

ENVIRONMENTAL SIGN OFF FROM RAHMAT BEGUM ON SEPTEMBER  
1ST, 2015  
OK JMAC.

300 - 336 N COLUMBUS DR

301 - 303 E WACKER DR

**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. All traffic control will be the responsibility of the contractor and must comply with all MUTCD standards.
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. Work permitted only between 9:00 AM and 4:00 PM.
7. Restore all lanes to normal operation during non-working hours.
8. Must use flagmen and/or arrow boards to maintain traffic operations through the work zone.
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.

**Restrictions:**

10. 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.
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. 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 renewal the dig date!
13. 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.
14. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
15. Permanent base pavement restoration to follow within 5 days after the completion of underground work.
16. All pavements and pavement markings are to be restored in accordance with CDOT Construction Standards.
17. All street openings must be restored with concrete base to grade.
18. Work to be performed as per plans and specifications.
19. Streets recently resurfaced must be restored to proper standards (resurface to nearest 1/4 pt, see CDOT Construction Standards for further details).
20. **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](mailto: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.

21. 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.
22. It is the responsibility of the applicant to fund Traffic Control Aides if the City deems it necessary due to heavy congestion situations.
23. 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.
24. All metal plates used for public way construction or placed within the right-of-way must indicate Ownership!
25. Maintain vehicular traffic at all times.
26. Maintain pedestrian traffic at all times.

**Restrictions:**

27. Cranes must be operated by a licensed crane operator.

Affected CUAN Sites: 7, 15, 18, 20, 21, 22, 24, 28, 29, 31, 34, 35, 36, 38, 53, 61, 68, 70, 73, 79, 86, 141, 147, 157

**EFFECTIVE DATES OF PERMIT**

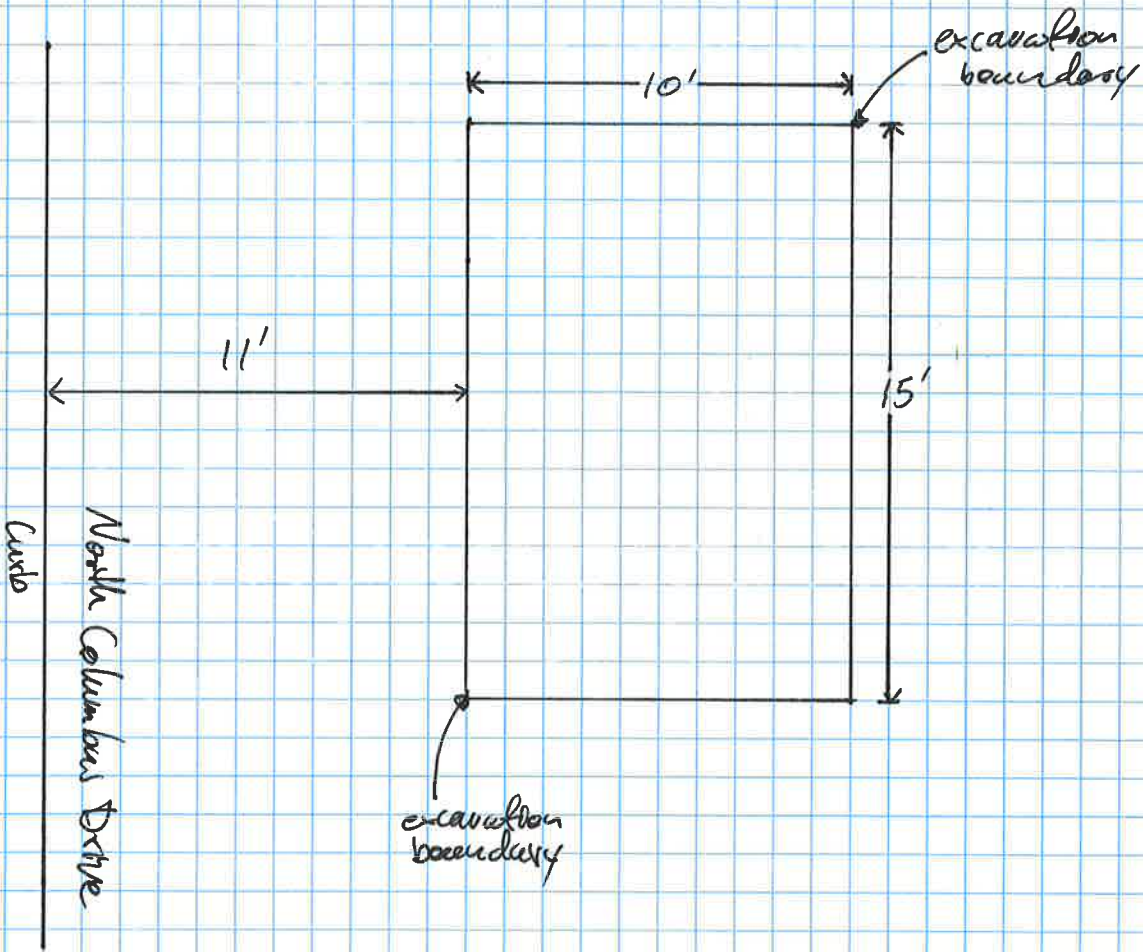
Current: Aug 06, 2015 through Sep 19, 2015 ( Input date: Sep 02, 2015 4:02:36 p.m. )  
Previous: Aug 06, 2015 through Sep 04, 2015 ( Input date: Aug 06, 2015 9:54:13 a.m. )

**END OF PERMIT**

## SKETCH



Survey Equipment  
 Ludlum-2221, Probe 2x2 NaI  
 S/N: 176944  
 S/N: RN21187  
 unshielded: 18276 cpm  
 Background: 4589 cpm (concrete surface)



Survey Readings

<u>Depth</u>	<u>Readings (cpm)</u>
0-18"	4800-5500
18-36"	5700-6100
36-54"	4900-6200
54-72"	5000-6200