



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

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

April 19, 2016

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

RE: Radiological Survey of Right-of-Way Utility Excavation
Permit No.: DOT594818
Permit Address: 226-237 E. Ontario St.
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 March 7, 2016 for a trench excavation to repair a communications service package duct bank.

Surveying was conducted in 18-inch lifts for fill soil removed from an approximately 4-foot wide by about 6-foot long trench excavation to a depth of 3-feet in the Right of Way (ROW) at the above referenced address (see sketch). The U.S. Environmental Protection Agency (USEPA) removal action level 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 removal action level 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 removal action level was 17,015 counts per minute (cpm) unshielded. The field instrument gamma background for the area was measured at approximately 6,405 cpm unshielded. Although none were observed for this project, 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.

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 removal action level and ranged from a minimum of 6,000 cpm to a maximum of approximately 9,000 cpm unshielded. Thus, there was no indication of the presence of radiologically-contaminated fill soil and/or an exceedance of the USEPA removal action level 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 # DOT594818

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



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

Received Date: February 20, 2016 6:55 am

**a002775
ISSUED**

AT&T (SBC IL)
2427 UNION
BLUE ISLAND, IL 60406

MICHELE PISTERZI (708)824-2817

PERMIT DATES

February 19, 2016 through March 11, 2016

PERMIT DETAILS

Public Way Opening for the purpose: to expose and rpr conduit

Excavation may commence on February 19, 2016 - NO SOONER

226 - 237 E ONTARIO ST - Number of Openings: 1

Curb Lane and Traffic Lane

4 Ft (L) x 6 Ft (W) x 6 Ft (D)

Service Request Details:

Address	Purpose	Posting Dates	Posting Times	SR Number
226 - 237 E ONTARIO ST	ROOM TO WORK	03/04/2016 - 03/10/2016	08:00 - 08:00	16-01243502

Subcontractors:

SONOMA UNDERGROUND SERVICES INCORPORATED
103 FORD DRIVE
NEW LENOX, IL 60451
(815)555-7894

Restrictions:

1. If Arterial Street Outside CBD, Then Start no earlier then 9:00 A.M. and end no later then 4:00 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 renewal 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. If Non-Arterial Street Outside CBD, Then Start no earlier then 7:00 A.M. and end no later then 3:00 P.M.
5. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
6. 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.
7. 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.
8. 9am to 4pm must maintain one WB lane at all times.

Duplicate. Extending work dates into Feb.

Fees:

03/01/2016 DOT_PWO - Degradation Fee

CAPS:	BB96
Amount: \$	2,500.00

Total Fees: \$2,500.00

EFFECTIVE DATES OF PERMIT

Current: February 19, 2016 through March 11, 2016 (Input date: February 20, 2016 6:55 am)

END OF PERMIT

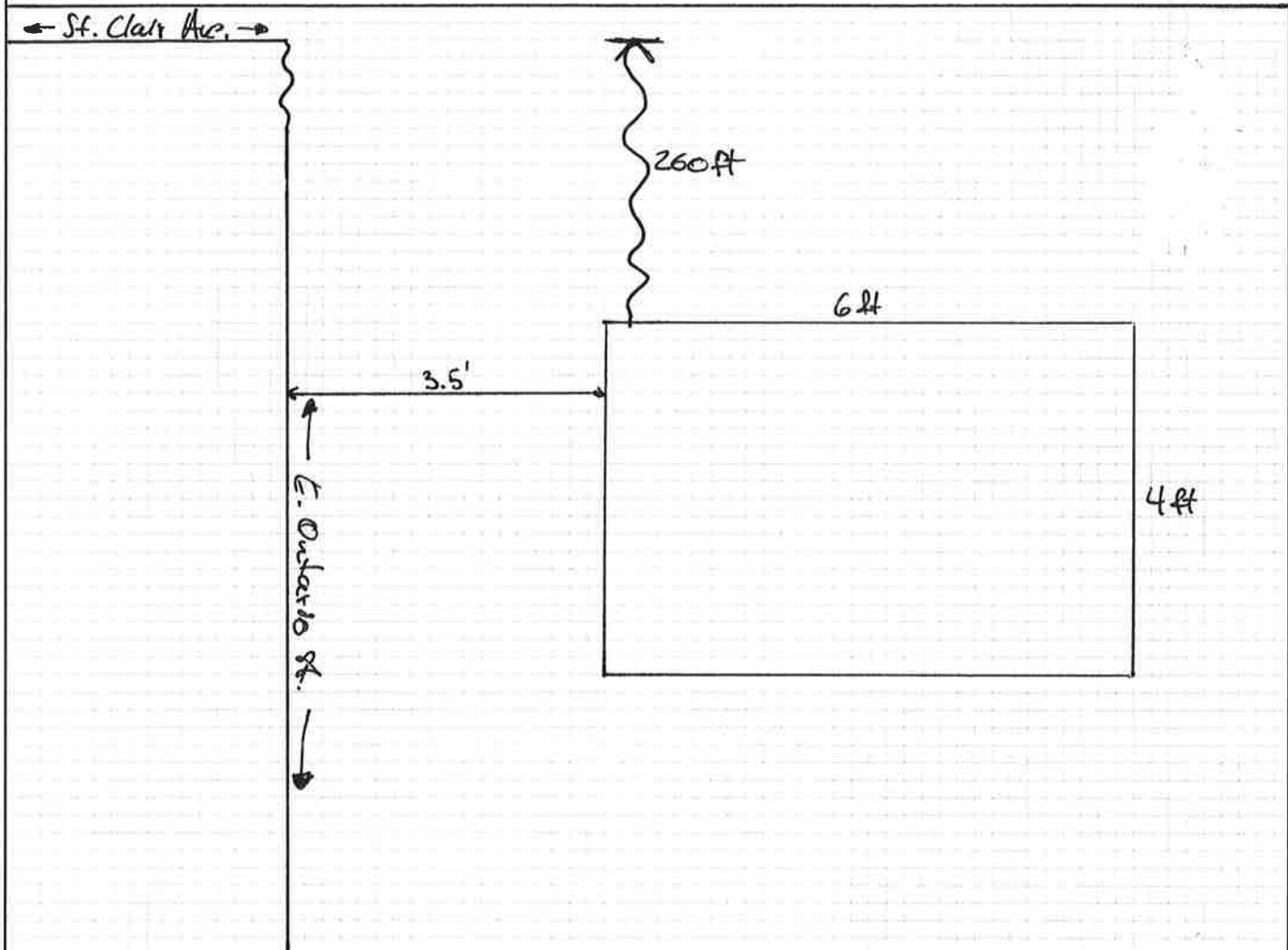
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SKETCH

JOB TITLE HT&T - 228 E. Ontario St., Chicago, IL
 JOB NO. 60163572 CALCULATION NO. _____
 ORIGINATOR Andrew Kozak DATE 3/7/16
 REVIEWER Steve Koruder DATE 4/14/16
 SCALE 5 squares = 1 foot SHEET NO. 1 OF 1

Survey Equipment

Ludlum 2221 S/N: 172039
 Probe 2x2 NaI S/N: PR 174496
 unshielded: 17,015 cpm
 shielded: 6,004 cpm
 background: 6,405 cpm
 (lawn area)



Readings

<u>Depth</u>	<u>Readings (CPM)</u>
0-14" (Asphalt/Concrete)	_____
14" (floor scan)	6,000 - 7,000 cpm
32" (floor scan)	6,000 - 9,000 cpm