



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

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

February 27, 2018

Mr. Karl Hafencher  
ComEd  
Two Lincoln Centre, 7th Floor  
Oakbrook Terrace, IL 60181

RE: Radiological Survey of Right-of-Way Utility Excavation  
Permit No.: DOT917403  
Permit Address: 520-600 N. Rush St., Chicago, IL  
AECOM Project No. 60493426

Dear Mr. Thomas:

Pursuant to conditions specified in the Chicago Department of Public Health (attached), gamma surveying was required to be performed at the above referenced site. AECOM Technical Services, Inc. (AECOM) provided the required surveying on February 19 and 20, 2018 for several emergency trench excavations to repair sections of a blocked electrical conduit.

Surveying was conducted at the above referenced address during the trench excavation in the Right-of-Way (ROW). The excavation consisted of three separate trenches between E. Ohio St. and E. Grand Ave., along the west side of N. Rush St. (refer to sketch). The three trenches were similar in dimensions, approximately 6-feet wide by 10-feet long, and to a depth of 30 to 48-inches below ground surface (bgs).

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). 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 removal action level of 7.1 pCi/g was 18,551 counts per minute (cpm) unshielded and 7,374 cpm shielded. The field instrument gamma background for the area was measured at approximately 2,700 to 3,200 cpm shielded. 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 excavations 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 1,300 cpm to a maximum of 2,800 cpm shielded. Refer to the attached sketch for the readings at the individual excavations. In any case, 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: Mr. Terry Sheahan  
333 South State Street, Rm. 200  
Chicago, Illinois 60604

Permit No.: DOT917403  
Permit Address: 520-600 N. Rush St.  
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  
Tim Bulthaupt, ComEd

Attachments: CDPH Permit  
Sketch

**PERMIT**



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

(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): Max Nowak Signature: [Handwritten Signature]

Site Address and Work Location (Describe exact site location and attach map): 520-600 N Rush St

Nature of Work: Repair-Emergency to blocked conduit on the west side of N Rush St from E Ohio St going south to Grand Ave - manhole to manhole digging to unblock conduit Emergency dig numbers 600410299

Company Name, Address, Phone No.: ComEd, 1 Lincoln Center, Oakbrook Terrace, IL 60181, 630-576-6427

General / Prime Contractor Name, Address, Phone No.: MEADE ELECTRIC CO., INC. (708)588-2500 9550 W 55th St Ste A Countryside IL 60525-3641 ATTN: Mat Taylor 708-588-6068

Include subcontractor information if applicable) Safety Officer / Phone No. AECOM - STEVE KORNDER, 262-515-7700

Radiation Contractor / Phone No. and email address (if applicable) AECOM - STEVE KORNDER, 262-515-7700

Check if City Department Work [ ] Department Name:

CDOT Permit No.: DOT917403

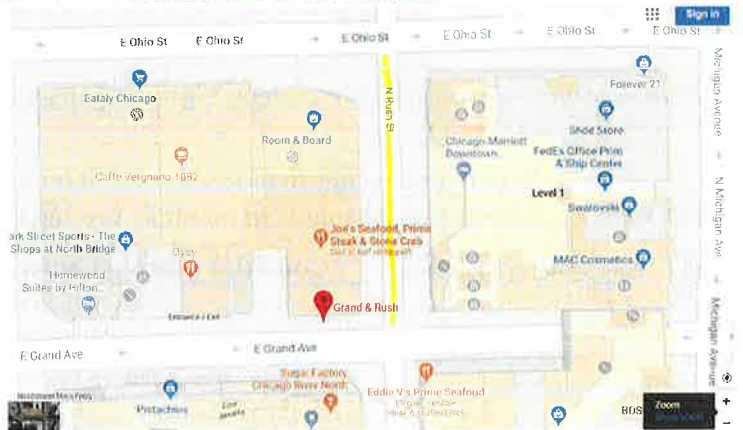
Today's Date: 2/20/2018 Expected Start Date: 2/19/2018 - Emergency basis digs called CDPH Approval / Date [Handwritten Signature]


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

**APPLICATION NUMBER DOT917403**

Description: EMER CONDUIT REPAIR / Blocked ComEd conduit lines



	<p style="text-align: center;"><b>Ticket Number:</b> 600410299</p> <p style="text-align: center;"><b>EMERGENCY</b></p> <p style="text-align: center;">NOTE: Emergency Dig Tickets are only valid until the emergency situation is resolved!</p>
<b>GENERAL INFORMATION</b>	
<b>Dig Number</b>	600410299
<b>Permit Number</b>	
<b>Public Right of Way?</b>	Yes
<b>Private Property?</b>	No
<b>Amended Dig Notice?</b>	Yes
<b>Activity Comment</b>	LOCATE ON THE WEST SIDE FROM OHIO FROM THE MANHOLE GOING SOUTH TO GRAND, MANHOLE TO MANHOLE
<b>Extension Comments</b>	-
<b>CONTACT INFORMATION</b>	
<b>Contact Person Name</b>	ESTEBAN
<b>Contact Person Phone Number</b>	(708)259-1037
<b>Company Name</b>	MEADE ELECTRIC CO., INC.
<b>DATE INFORMATION</b>	
<b>Dig Notice Creation Date</b>	Feb 19, 2018 08:51 am
<b>Dig Date</b>	Feb 19, 2018 11:00 am
<b>Dig Notice Expiration Date</b>	Feb 24, 2018
<b>Less than 48 Hours Notice?</b>	Yes
<b>LOCATION INFORMATION</b>	
<b>Latest Locations</b>	520 - 600 N RUSH ST
<b>Distributed To</b>	City of Chicago (CoC) Crown Castle - UG Electrical Century Link Rogers Telecom/Gabe's Technical Service WOW (HBK) Crown Castle CDPH Peoples Gas Peoples Gas Central Verizon (MCI) Sunesys, LLC Comcast Cable (29) ComED North Enwave (MDE Thermal) Chicago AT&T (SBC IL)
<b>Revisions</b>	678326

**SKETCH**

Survey Equipment

Ludlum 2221 S/N: 172039  
 Probe 2x2 NaI S/N: PR174406  
 unshielded: 18,551cpm  
 shielded: 7,374cpm  
 source block: 26K-29K  
 background: 2,700-3200cpm (shielded)  
 personnel: A Kozak

Gamma Readings

<u>Section</u>	<u>Depth</u>	<u>Readings (CPM)</u>
①	0" (asphalt)	—
	12" (sub-base)	1,300 - 1,700
	30"	1,400 - 2,400
②	0" (asphalt)	—
	12" (sub-base)	1,400 - 1,700
	30"	1,800 - 2,500
	48"	1,600 - 1,900
③	0" (asphalt)	—
	12" (sub-base)	1,500 - 1,700
	30"	1,600 - 2,300
	48"	1,900 - 2,800

Notes:  
 All readings called with a shielded probe

