



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

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

January 18, 2017

Mr. Pete Sylvester  
Great Lakes Plumbing & Heating  
4521 W. Diversey Ave.  
Chicago, Illinois 60639

RE: Radiological Survey of Water Main Disconnect  
Permit No.: DOT746116  
Permit Address: 237 E. Ontario St., Chicago, Illinois  
AECOM Project No. 60522862

Dear Mr. Sylvester:

Pursuant to conditions specified in a permit (see attached) issued by the City of Chicago Department of Public Health (CDPH), radiation monitoring was required to be performed at the above referenced site. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance on January 9, 10, and 11, 2017 for a water main disconnect.

Surveying was performed within the excavation and on the spoil removed at 237 E. Ontario Ave. (refer to sketch). The excavation involved removal of concrete and additional trench excavations. Tishman Construction sub-contractor (Great Lakes Plumbing & Heating) removed concrete sidewalk approximately 10-feet long by 7-feet wide. The additional trench excavation was within the removed concrete area and was approximately the same dimensions to a depth of 5.5 and 8-feet below ground surface (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 removal action level is 17,253 (S/N: 172039) counts per minute (cpm) unshielded.

The field instrument gamma background for the area was measured at approximately 7,800 to 8,200 cpm unshielded. The field gamma measurements within the excavations and of the spoil during the excavation process did not exceed the instrument USEPA threshold previously stated and ranged from a minimum of 4,800 cpm to a maximum of 8,300 cpm unshielded. 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: Mr. Terry Sheahan  
333 South State Street, Room 200  
Chicago, Illinois 60604

Permit Address: 237 E Ontario St.  
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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 Geochemist

cc: Terry Sheahan, Chicago Department of Public Health  
Verneta Simon, USEPA  
Andrew Hellerman, Tishman Construction

Attachments: 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): Great Lakes Plumbing Heating Peter Sylvester Signature: Peter Sylvester

Site Address and Work Location (Describe exact site location and attach map): 237 E. Ontario excavate for water disconnect in the sidewalk 15' North of the North property line 35' East of West Property line

Nature of Work: Disconnect existing water service

Company Name, Address, Phone No.: Great Lakes Plumbing Heating 4521 W. Diversy Ave Chicago IL 60639 773 489-0400

General / Prime Contractor Name, Address, Phone No.: Tishman Construction Co. of Illinois 100 S. Wacker Dr 6th floor  
*Include subcontractor information if applicable*

Safety Officer / Phone No. Mark Gott 847 626-4125

Radiation Contractor / Phone No. and email address (if applicable) Aecom 262-515-7700 Steve.korndes@aecom.com

Check if City Department Work  Department Name: \_\_\_\_\_

CDOT Permit No.: Application # DOT 746116

Today's Date: 12/28/2016 Expected Start Date: 1/3/2017 CDPH Approval / Date: Sheehan 12-29-16

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)

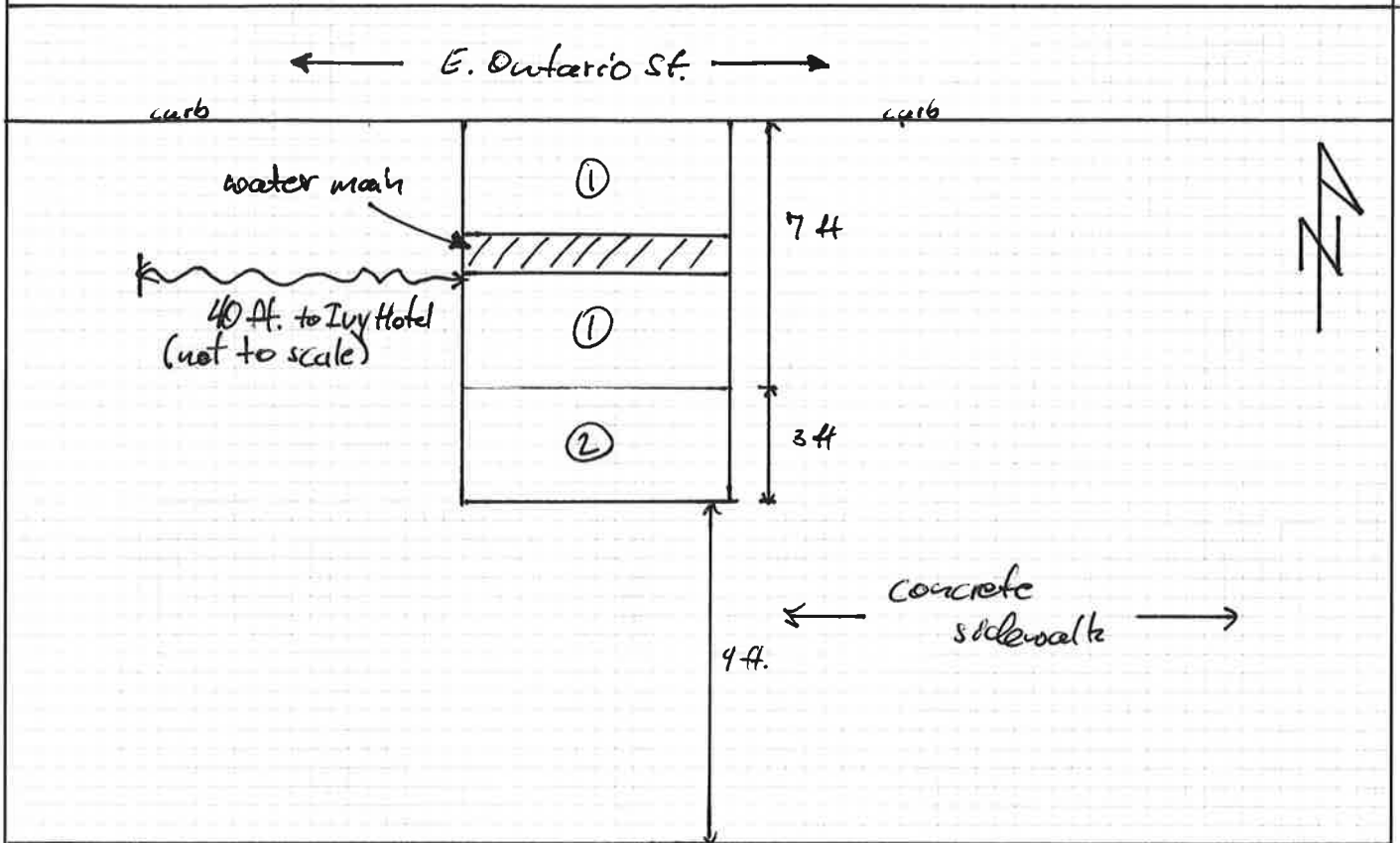
For CDPH Use Only



**SKETCH**

Survey Equipment

Ludlum 2221 S/N : 172039  
 Probe 2x2 NaI S/N : 174496  
 unshielded: 17,253 cpm  
 shielded: 7,018 cpm  
 background: 7,800-8,200 cpm  
 personnel: A. Kozak



Ivy Hotel

243 E. Ontario St (Property Building)

Survey Readings

<u>Section</u>	<u>Depth</u>	<u>Readings</u>	<u>Section</u>	<u>Depth</u>	<u>Readings</u>
①	0" (concrete)	—	②	0" (concrete)	—
	6"	6,100 - 6,900		6"	6,100 - 7,200
	22"	7,000 - 7,900		6" - 66" (soil)	7,300 - 8,200
	22" - 66" (soil)	6,400 - 7,400			
	66" - 96" (soil)	4,800 - 8,200			
	96"	7,600 - 8,300			