



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

312-939-1000 tel
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August 1, 2016

Mr. Alex Ohlson
City Lights, Ltd.
9993 Virginia Avenue
Chicago Ridge, IL 60415

RE: Radiological Survey of a CIP Foundation Installation
Permit No.: DOT824552
Permit Address: 635-651 N. Michigan Ave., Chicago, Illinois
AECOM Project No. 60513867

Dear Mr. Ohlson:

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 27, 2017 for an excavation related to the installation of city information posts (CIP) foundations.

Surveying was performed within two separate excavations and on the spoil removed at 635-651 N. Michigan Ave. (refer to sketch). The excavations involved removal of concrete and an associated fill material. City Lights removed a section of concrete 12-feet long by 10-feet wide. The area was excavated to approximately 8 to 10-inches below ground/pavement 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 17,193 (S/N: 326720) counts per minute (cpm) unshielded. The field instrument background gamma reading collected for soil in the vicinity of the excavation area was 6,000 to 7,000 cpm unshielded.

The field gamma measurements within the excavations and of the spoil during the excavation process did not exceed the instrument threshold previously stated and ranged from a minimum of 5,300 cpm to a maximum of 8,800 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 No.: DOT824552
Permit Address: 635-651 N. Michigan Ave.
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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

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): Alex Ohlson Signature: Alex Ohlson

Site Address and Work Location (Describe exact site location and attach map): 635-651 N Michigan

Nature of Work: Install CIP Foundation

Company Name, Address, Phone No.: City Lights, Ltd. 9993 Virginia Ave Chicago Ridge, IL 773-626-9162

General / Prime Contractor Name, Address, Phone No.: JC Decaux 312-823-7251

Include subcontractor information if applicable
Safety Officer / Phone No. Steve Hoffman 773-617-5050

Radiation Contractor / Phone No. and email address (if applicable) AECOM 312-373-7700 Steve.Kornder@aecom.com

Check if City Department Work Department Name: _____

CDOT Permit No.: DOT824552

Today's Date: 7/6/17 Expected Start Date: ASAP CDPH Approval / Date: J Shealton 7-6-17

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)

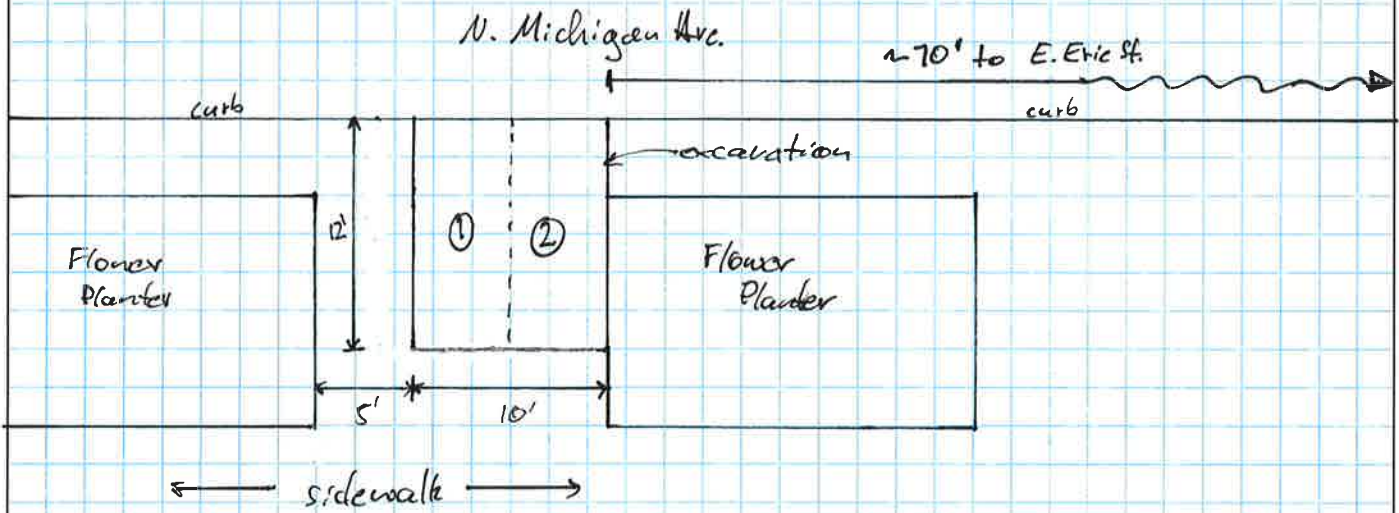
For CDPH Use Only

SKETCH

JOB TITLE City Lights 685-651 N. Michigan Ave.
 JOB NO. 60513867.500 CALCULATION NO. _____
 ORIGINATOR A. Kozak DATE 7/27/17
 REVIEWER S. Koruder DATE 7/28/17
 SCALE 1 square = 2 feet SHEET NO. 1 OF 2

Survey Equipment

Ludlum 2221 S/N : 326720
 Probe 2x2 NaI S/N : PR360158
 unshielded : 17,193 cpm
 shielded : 7,097 cpm
 background : 6,000-7,000 cpm
 personnel : A. Kozak



building boundary
 Share Fronts

Survey Readings

<u>Section</u>	<u>Depth</u>	<u>CPM</u>	<u>Section</u>	<u>Depth</u>	<u>CPM</u>
①	0" (concrete)	5,300 - 7,000	②	0"	5,300 - 7,000
	10"	6,700 - 8,800		10"	6,200 - 8,200