

January 25, 2018

Mr. Larry Koch
Related Midwest
350 W Hubbard, Suite 300
Chicago, IL 60654

RE: Radiological Survey of Sidewalk and Planter Installations
Permit Address: 451 E Grand Ave., Chicago, Illinois
Permit: DOT1044551
AECOM Project No. 60442737

Dear Mr. Koch:

Pursuant to conditions specified in a permit 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 December 21, 2018 for installation of a light-base foundation and the associated electrical conduit. The near surface fill within the sidewalk ROW had been previously screened, so the radiological screening was only necessary for the subsurface and foundation installation.

Surveying was performed within the excavation and on the spoil removed at 510 N. Peshtigo Ct. (refer to annotated drawing). The excavation was located within the sidewalk right-of-way, along the north side of E. Grand Ave. and directly west of the intersection of E. Grand Ave. and N. Peshtigo Ct. The excavation consisted of a light-base approximately 2-feet wide to a depth of 54-inches below ground surface (bgs) and an associated conduit trench approximately 40-feet long, 2-feet wide to a depth of 30-inches 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 a Ludlum Models 2221 survey meter and an unshielded 2 x 2 inch NaI probe (Model 44-10) with a long probe cord. For the instrument used during the screening, the gamma count threshold indicative of the 7.1 pCi/g removal action level was 6,456 (S/N: 172039) counts per minute (cpm) shielded. The field instrument background gamma reading collected for fill soil in the vicinity of the excavation area was 1,800 cpm.

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 1,500 cpm to a maximum of 4,200 cpm shielded. 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 annotated drawing and tabulated results documenting the work have been included as attachments.

As part of the permit conditions, a PDF copy of this letter has been emailed to:

Chicago Department of Public Health
Attention: Mr. Terry Sheahan
333 South State Street, Room 200
Chicago, Illinois 60604

Permit Address: 451 E Grand Ave.
Permit: DOT144551
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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: Verneta Simon, USEPA

Attachments: Permit
Annotated Drawing and Results

PERMIT



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

FORM NO. CDPH.ROW.03

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 33 N. LaSalle St., Suite LL-120, Chicago, Illinois 60602 during normal business hours (8:30AM-4:30PM, Monday through Friday). Contact (312) 744-3152 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): Steve Hoffman Signature: Steve Hoffman

Site Address and Work Location (Describe exact site location and attach map): 451 E GRAND Ave

Nature of Work: INSTALL DEO EQUIPMENT

Company Name, Address, Phone No.: CITY LIGHTS LTD.

General / Prime Contractor Name, Address, Phone No.: _____

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

Radiation Contractor / Phone No. (if applicable) AE Com 262-515-7700

Check if City Department Work Department Name: DEO

CDOT Permit No.: DOT 1044551

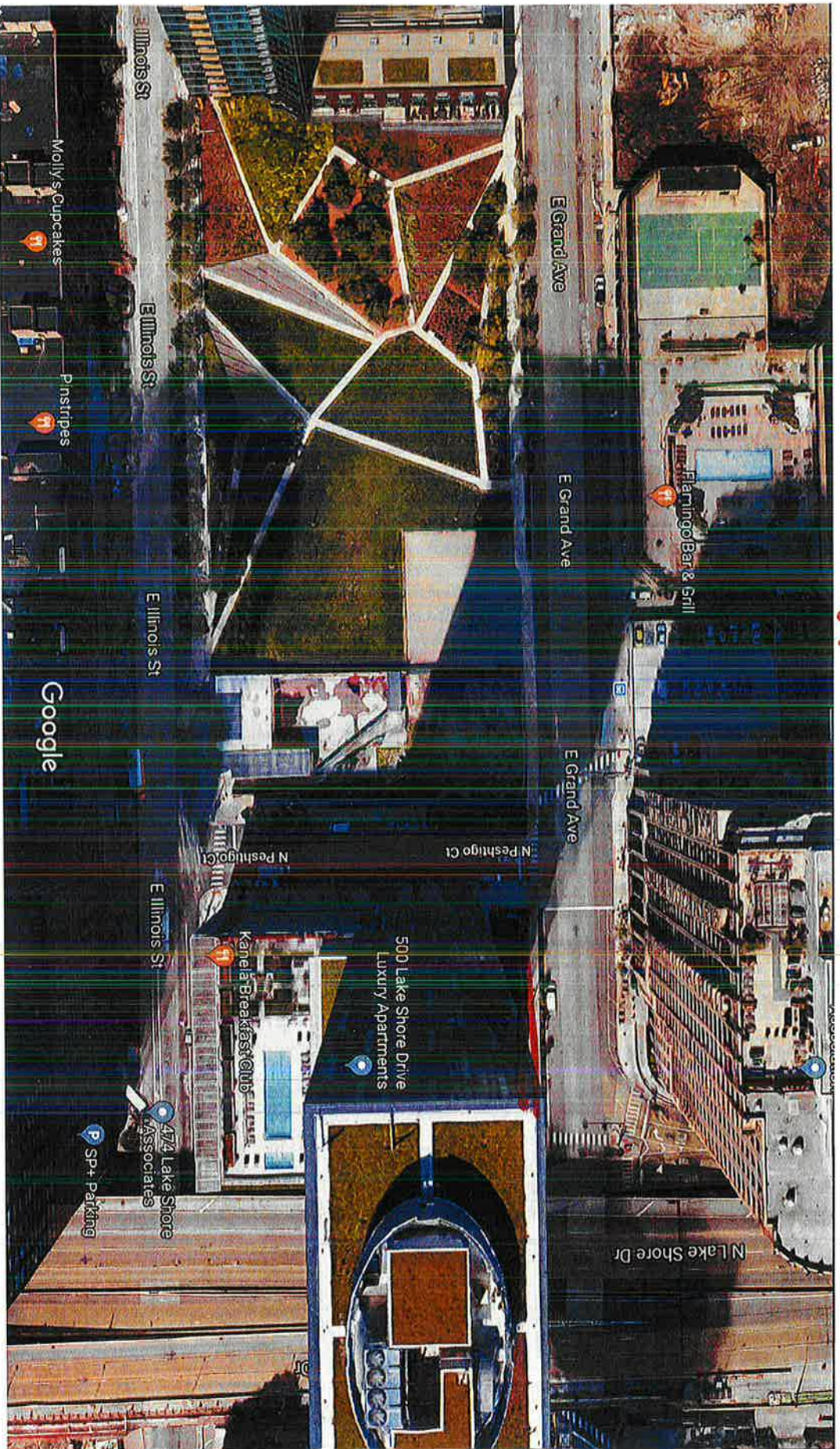
Today's Date: 12-17-18 Expected Start Date: 12-19-18 CDPII Approval / Date: J Sheahan 12/18/18

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



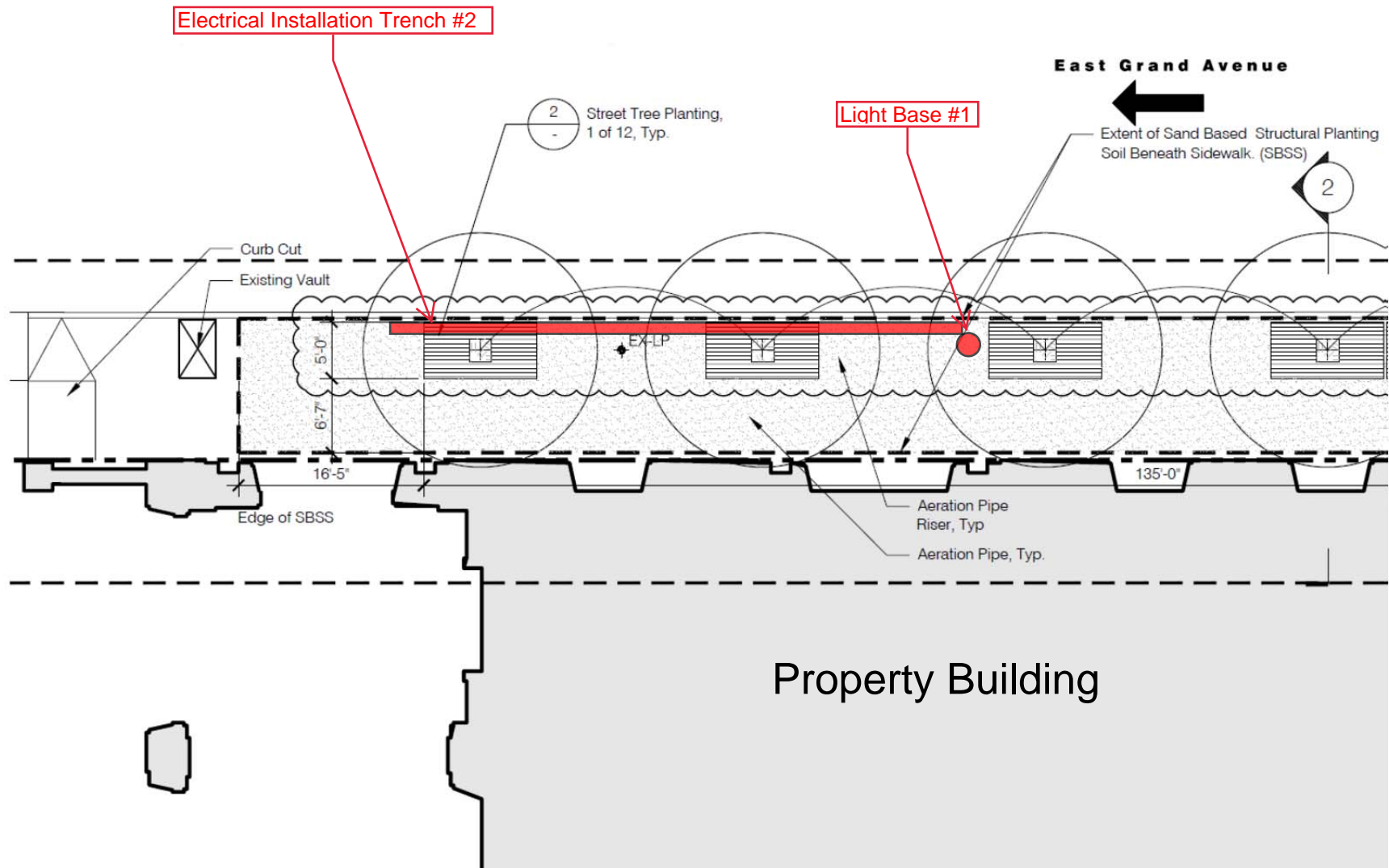
behind fence at 451 E Grand - DEC 31



Google

Imagery ©2018 Google, Map data ©2018 Google 50 ft

ANNOTATED DRAWING



Survey Results
Related Midwest
510 N. Peshtigo Ct.
City Lights - Lightbase Installation

Survey Equipment

Ludlum 2221 S/N:	172039
Probe 2x2 NaI S/N:	PR174406
shielded:	6,456 cpm (long cord)
background:	1,700 cpm
Personnel:	D. Damino
Date of Screening:	12/21/2018

Survey Results

Section	Depth (inches)	Readings (CPM)
1	0	1,500 - 2,400
	18	1,800 - 1,900
	36	2,200 - 2,400
	54	1,900 - 2,400
2	0-18	prior screening 1,400 - 2,800
	18-30	1,700 - 4,200