



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

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

October 18, 2017

Mr. Mickey Snider
Wang Engineering, Inc.
1145 N. Main St.
Lombard, IL 60601

RE: Soil Borings – Navy Pier
Permit No.: Digger#600327123
Permit Address: N. Streeterville Dr., Chicago, Illinois
AECOM Project No. 60312502

Dear Mr. Snider:

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 September 8, 2017 for soil borings.

Surveying was performed on the fill soil removed at N. Streeterville Drive (see sketch) required to address soil borings. The work consisted of two, eight inch diameter soil borings. The borings were completed to a depth of 12 feet below ground surface (bgs). The soil was screened after removal by the auger. See attached sketch for the location of the excavation.

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 a shielded 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 7,374 (S/N: 172039) counts per minute (cpm) shielded.

The field gamma measurements within the excavation during the excavation process did not exceed the instrument threshold previously stated, and ranged from a minimum of 2,300 cpm to a maximum of 4,300 cpm unshielded. The general subsurface stratigraphy was composed of urban fill. 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.: #600327123
Permit Address: N. Streeterville Dr.
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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 - Private Property)

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. This environmental contamination could present a threat to human health and safety in connection with work performed at the site, 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. Further, I will ensure that all work at the subject site, 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 CDPH and the United States Environmental Protection Agency (USEPA) 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): Navy Pier, Inc. Signature: [Signature]

Site Address and Work Location (Describe exact site location and attach map): N. Streeterville Drive
See attached for exact locations

Nature of Work: Soil Borings 8" ϕ borings to 12' below grade

Company Name, Address, Phone No.: Wang Engineering, Inc. 145 N. Main St. Lombard, IL (630) 553-9920

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

Safety Officer / Phone No. (Include subcontractor information if applicable) Mickey Finder (630) 913-5928 ext 1029

Radiation Contractor / Phone No. and email address (if applicable) AECOM Steve Kander (262) 515-7100

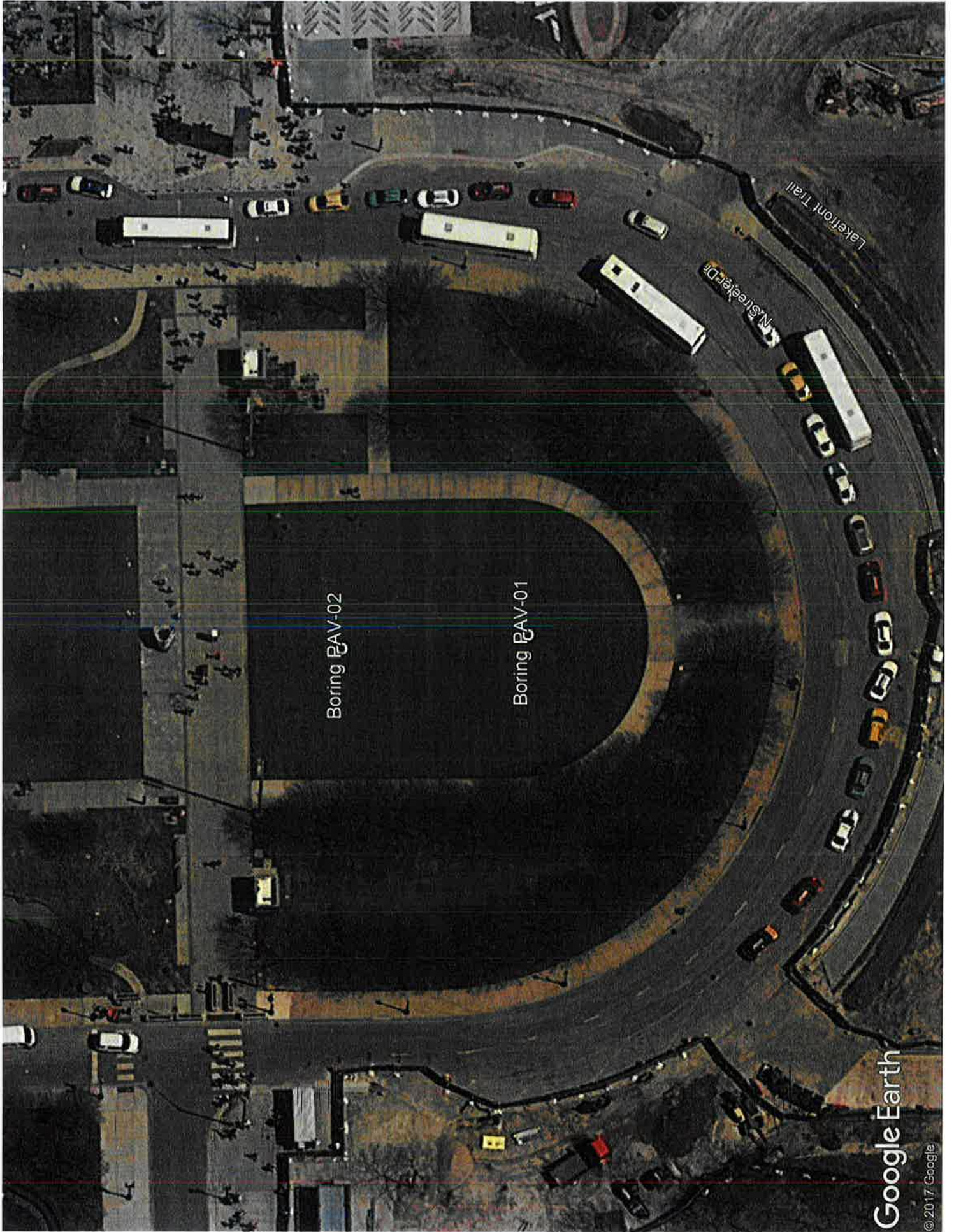
Check if City Department Work Department Name: _____

CDOT Permit No. or Developer Services No.: DIGGER # 600327123

Today's Date: 8/28/17 Expected Start Date: 9/4/17 CDPH Approval / Date: [Signature] 8/29/17

Please return this completed form along with maps showing exact site location to CDPH at 333 S. State St., Room 200, Chicago, Illinois 60604 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday)

For CDPH Use Only



Boring PAV-02

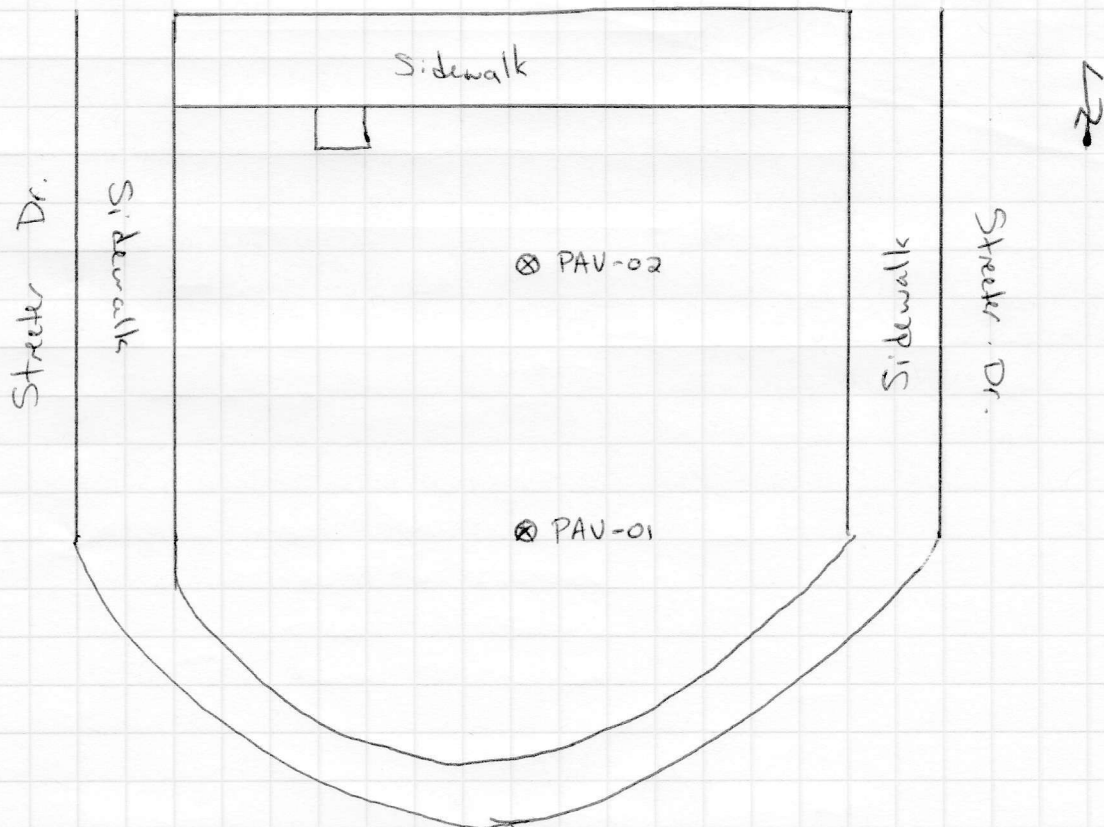
Boring PAV-01

SKETCH

Job Title: Navy Pier Pavilion

Originator: K. Korczak

Date: 10-10-17



Equipment: Ludlum 2221 S/N: ~~PR~~ 2039

Probe 2x2 NaI S/N: PR174406

unshielded: 18,551 cpm

shielded: 7,374 cpm

	<u>DEPTH</u>	<u>CPM (Shielded)</u>
PAV-01	surface	2300-2557
	1-7' (spoil)	2600-3049
	7-12' (spoil)	2500-3000
PAV-02	surface	2400-2600
	1-3' (spoil)	2800-4300
	3-12' (spoil)	2600-3013