



AECOM
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Chicago, Illinois 60606

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April 25, 2016

Mr. Don Castanoli
Central Lawn Sprinklers
239 King Street
Elk Grove Village, IL 60007

RE: Radiological Survey of Right-of-Way Utility Excavation
Permit No.: DOT605528
Permit Address: 338 Lower North Michigan Avenue
AECOM Project No. 60494019

Dear Mr. Castanoli:

AECOM Technical Services, Inc. (AECOM) conducted radiological surface gamma survey of a trench excavation located at 338 Lower North Michigan Avenue, Chicago, Illinois. The survey was completed on April 12, 2016. The attached figure and sketch provide the approximate location and outline of the area surveyed.

Surveying was performed on the soil removed from a trench to address an upgrade to Michigan Avenue irrigation system. The excavation was a combination of two adjoining trenches with total approximate dimensions of 14-feet long, 6 to 10-feet wide, and 4 to 7-feet deep (refer to sketch).

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 made using Ludlum Model 2221 survey meter and an unshielded 2 x 2 inch NaI probe (Model 44-10). The gamma count threshold indicative of the 7.1 pCi/g removal action level is 18,278 counts per minute (cpm) unshielded.

The field gamma measurements during the excavation process did not exceed the instrument threshold previously stated. During the excavation the gamma survey reading of the ranged from a minimum of 6,200 cpm to a maximum of 7,600 cpm unshielded. Thus, there was no indication of the presence of radiologically-contaminated material 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: Ms. Rahmat Begum
333 South State Street, Room 200
Chicago, Illinois 60604

Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Andrew Kozak
Geologist

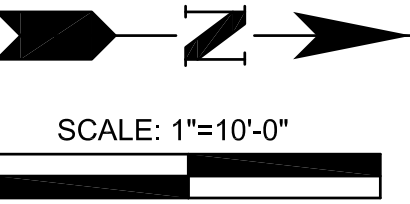


Steven C. Kornder, Ph.D.
Senior Project Geoscientist

cc: Rahmat Begum, Chicago Department of Public Health
Verneta Simon, USEPA

Attachments: Permit
Field Sketch

FIGURE



 CITY WATER MAIN
 WATER TAP, 2" SERVICE
 WATER METER IN VAULT
 WATER VALVE, 2"
 RPZ BACKFLOW PREVENTER, 2" FEBCO 825YA
 WATER SERVICE LINE

1. REFER TO SHEET 5 FOR DECK PENETRATION DETAILS.

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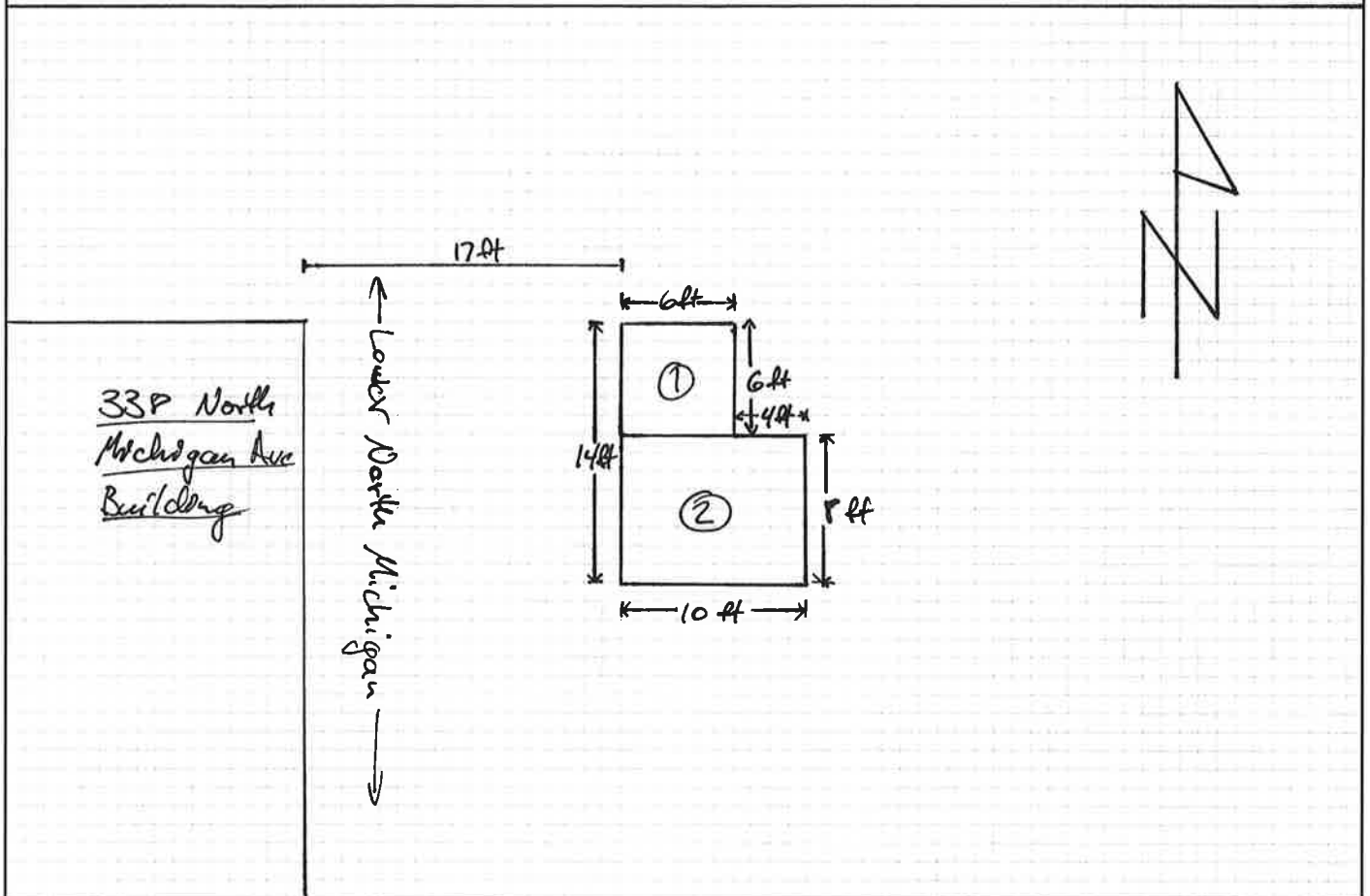
DESIGNED BY: KAM	OUC FILE # 2015-66777
DRAWN BY: KAM	PROJECT # CLS 15769
CHECKED BY: JC	SCALE: 1"=10'-0"
DATE: 08/05/2015	SHEET NO. 3 OF 5

SKETCH

JOB TITLE Central Sprinklers - 538 Lower N. Michigan Ave.
 JOB NO. 60494019 CALCULATION NO. _____
 ORIGINATOR Andrew Kozak DATE 4/12/16
 REVIEWER Steve Koruder DATE 4/19/16
 SCALE 1 square = 1 foot SHEET NO. 1 OF 1

Survey Equipment

Lucium 2221 S/N: 176944
 Probe 2x2 NaI S/N: RN21192
 unshielded: 19,278
 shielded: 6,123
 background: 5,600
 source block: 23,000



Readings

Depth	CPM
0-14"	Concrete/Asphalt
14"	< 6,200
14"-32"	< 7,100
32"-48"	< 6,800
48"-60"	< 6,900
60"-78"	< 6,900
78" (floor slab)	< 7,600

