



AECOM
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March 6, 2015

Mr. Mike Jasek
Project Manager, Lakefront Trail Improvement
F.H. Paschen
5515 N. East River Road
Chicago, IL 60656

RE: Radiological Survey of Right-of-Way Utility Excavation
Navy Pier Flyover / Lakefront Trail Improvement
AECOM Project No. 60318016

Dear Mr. Jasek:

Pursuant to requirements of the United States Environmental Protection Agency USEPA and conditions specified in permits issued by the City of Chicago Department of Public Health (CDPH), radiation monitoring is required to be performed for the above referenced project when construction activities will disturb fill soils that has not been previously screened for thorium. AECOM Technical Services, Inc. (AECOM) has been contracted to provide the required radiation surveillance and reporting.

The last report (dated November 19, 2014) provided notification that screening activities would be conducted intermittently as required. No excavation activities that required radiological screening were performed between November 19, 2014, and March 3, 2015. AECOM provided radiation surveillance on March 4, 2015, for excavation activities conducted to install an electrical service line.

Surveying was performed within the trench, on the spoil removed from the trench (est. at 1-foot by 69-foot) and within a sidewalk area south of East Illinois Street near the northeast corner of the Site (see sketch). A portion of the sidewalk slab was removed from an 11 x 11-foot section near the southeastern section of the trench excavation. Backfill was primarily urban fill material consisting of brown-black sands with trace bricks, cinders and clays. The gamma monitoring revealed no indication of fill soil above the clean-up value established by the USEPA for the Streeterville area of Chicago.

The USEPA cleanup value for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g) total radium (Ra-226 + Ra-228). Gamma radiation count measurements were made using Ludlum Model 2221 survey meter and an unshielded 2 x 2 inch NaI probe (Model 44-10). For the instrument used, the gamma count threshold equivalent to the 7.1 pCi/g cleanup value is 18,279 counts per minute (cpm) unshielded (6,282 cpm shielded). The field gamma background for the area was measured at approximately 7,467 cpm unshielded for the soils observed in the vicinity of the work area

As indicated above, the field gamma measurements within the excavation area did not exceed the stated instrument threshold. Gamma readings for the trench area generally ranged from 5,200 to 5,600 cpm with a maximum of 5,800 cpm. Gamma readings for the sidewalk area, where the pavement was removed, ranged from 8,400 to 9,400 cpm with a maximum of 9,900 cpm unshielded. Thus, there was no indication of the presence of radiologically-contaminated material and/or an exceedance of the USEPA cleanup value of 7.1 pCi/g total radium. A copy of the field sketch documenting the area where work was performed has been included as an attachment.

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

Regards,



Brian R. Schmidt
Project Scientist II



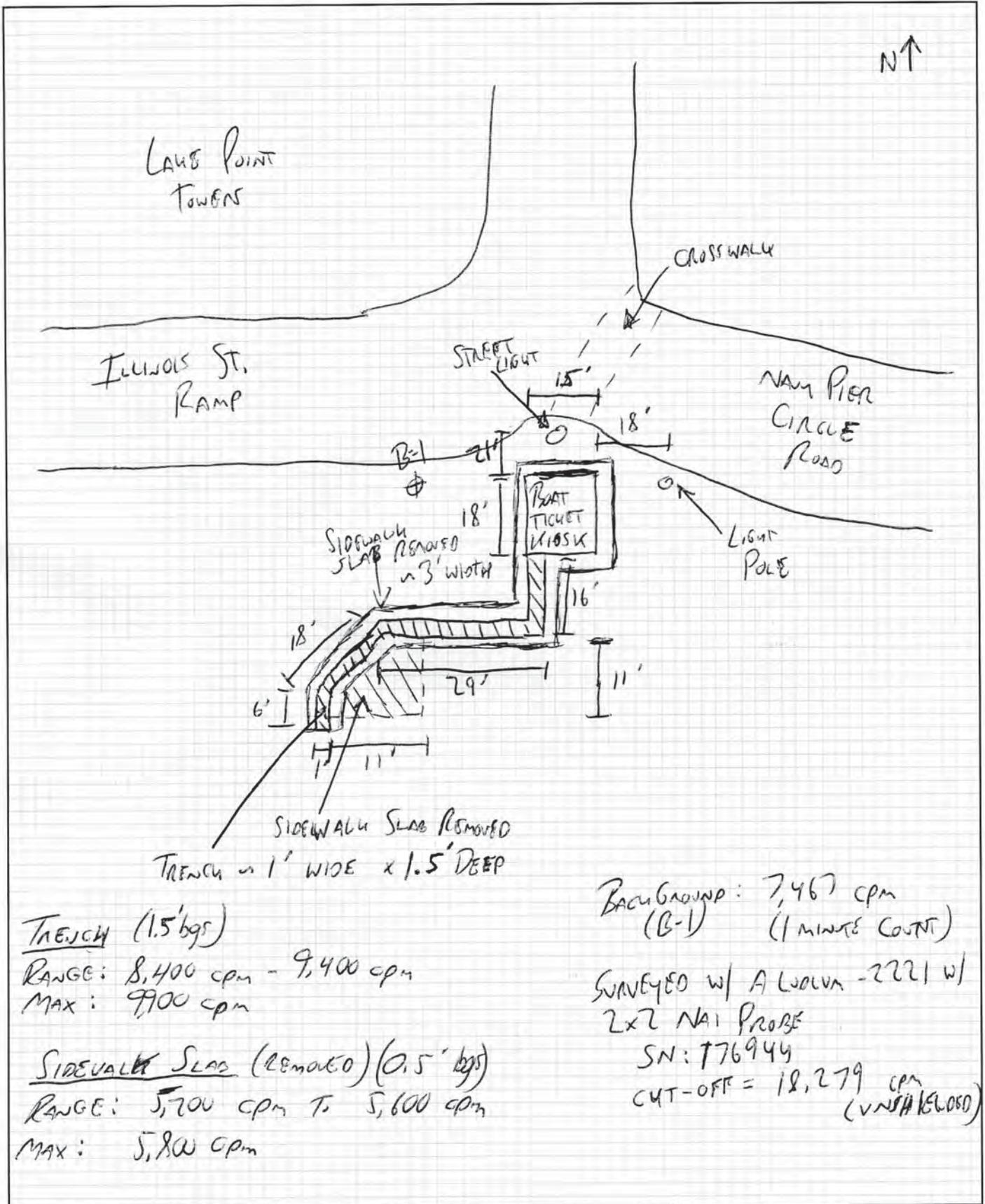
Steven C. Kornder, Ph.D.
Senior Project Geoscientist

cc: Michael Herbert, F.H. Paschen

Attachment: Sketch

SKETCH

JOB TITLE NAVY PIER KEYOVER PROJECT ROW - RAD INVESTIGATION
 JOB NO. 60318016 CALCULATION NO. _____
 ORIGINATOR BRIAN SCHMIDT DATE 3/4/15
 REVIEWER STEVE KENNEDY DATE 3/4/15
 SCALE N/A SHEET NO. 1 OF 1



TRENCH (1.5' bgs)
 RANGE: 8,400 cpm - 9,400 cpm
 MAX: 9900 cpm

SIDEWALK SLAB (REMOVED) (0.5' bgs)
 RANGE: 5,700 cpm TO 5,600 cpm
 MAX: 5,800 cpm

BACKGROUND: 7,467 cpm
 (B-1) (1 MINUTE COUNT)
 SURVEYED w/ ALUOLIN -2221 w/
 2x2 NA1 PROBE
 SN: 176944
 CUT-OFF = 18,279 cpm
 (UNSAFE LEVEL)