



AECOM
303 E. Wacker Drive, Suite 900
Chicago, Illinois 60601

312-938-0300 tel
312-938-1109 fax

February 6, 2015

Mr. Mike Jouras
People's Gas Light & Coke Co.
Environmental Services Department
130 East Randolph, 22nd Floor
Chicago, IL 60601

RE: Radiological Survey of Right-of-Way Utility Excavation
Permit No.: 550768897
Permit Address: 419-20 East Ohio Street
AECOM Project No. 60157647

Dear Mr. Jouras:

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 February 4 and 5, 2015 for an excavation to install a new gas service located at 419-420 East Ohio Street.

Surveying was performed on the soil removed from a 2 to 3-foot by 68-foot trench excavation both within the property boundary as well as within the roadway of East Ohio Street, north of the permitted address (see sketch). The maximum depth of the excavation was approximately 4-feet below ground surface. Backfill in the vicinity of the gas main was primarily urban fill soil and clean tan sand above areas of existing utilities encountered within the excavation. Urban fill found in the Streeterville area typically consists of loose brown-black fine to medium sands with bricks, glass, scrap metal, cinders, etc. The monitoring revealed no indication of fill soil above the clean-up value established by the U. S. Environmental Protection Agency (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 for the project 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 5,742 cpm unshielded as measured at the exposed soil within the property boundary of the construction site in the vicinity of the excavation at the permitted address.

Field gamma measurements greater than twice the background count may be considered anomalous results that potentially indicate contaminated fill soil is in close proximity to the excavation. When results greater than twice background are observed they require more cautious and frequent field screening, but are not necessarily indications of the presence of thorium contaminated fill soil. Specifically, there are naturally materials such as granite, clay and brick that may be above twice background. Although some field gamma measurements within the excavation did exceed twice background in a couple areas, none of these values neared the threshold cut-off value for the field instrument equivalent to the USEPA cleanup value. These measurements, taken with the unshielded probe at the base of the 4-foot excavation (i.e., for the 48-66 inch lift), were likely biased slightly high because of the close proximity to the adjacent trench walls.

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 5,700 cpm to a maximum of 13,500 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 permit, a field sketch documenting work performed and photos 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,



Brian R. Schmidt
Project Scientist II



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

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

Attachments: Permit
Sketch
Photos

PERMIT



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

MEMORANDUM

TO:

✓ Mary Fulghum
USEPA Region V
Lindsay Light II Site, Office of the Regional Counsel
77 W. Jackson Blvd.
Chicago, Illinois 60604

Mr. Vincent S. Oleszkiewicz
Leech Tishman, Fuscaldo & Lampl. LLC
4225 Naperville Road, Suite 230
Lisle, IL 60532

Roy Widman
Tronox LLC
3301 N. W. 150th St.
Oklahoma City, OK 73134

FROM: Raul Valdivia, Ph. D., Chief Engineer
City of Chicago Department of Public Health

SUBJECT: Notification of Permit Application - Lindsay Light II Site

DATE: 7/15/2015 - 419-20 E. Ohio

Pursuant to Condition 10(a) of the Right-of-Way Agreement dated September 27, 1999, this is to inform you that a permit has been applied for with the City of Chicago Department of Transportation to conduct subsurface activities at the subject right-of-way. The applicant has contacted this Department and has reviewed additional information regarding potential contamination at the subject site (see attached form DOE.ROW.01).

If you have any questions, please do not hesitate to call me at (312) 744-5711.

Attachment

cc: ✓ Mort Ames, City of Chicago Department of Law (via fax 742-3832)
✓ Eugene Jablonowski, USEPA (via fax 312-353-9281)

Last updated March 15, 2010



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

FORM NO. CDPH.ROW.03 (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): Maria G. Oliver

Signature: Maria G. Oliver

Site Address and Work Location (Describe exact site location and attach map): 419-20 E. Ohio St.

Nature of Work: New Sewer Installation

Company Name, Address, Phone No.: Peoples Gas, 200 E. Randolph (312) 240-4692

General / Prime Contractor Name, Address, Phone No.: Ed Condon (773) 542-7954

Include subcontractor information if applicable)

Safety Officer / Phone No. _____

Radiation Contractor / Phone No. (if applicable) Steve Koruder, AECOM, (262) 515-7700

Check if City Department Work ☐ Department Name: _____

DOT Permit No.: 550768897

Today's Date: 1/15/15 Expected Start Date: 1/19/15

CDPH Approval / Date Kalmatunisi Bear
1/15/2015

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)

or CDPH Use Only

SKETCH

integrus

Locate

Map Facility

Search Address

419 E Ohio

Ex 91 100 100 100 100

Address Location



Address Range

400 - 485 E OHIO

N. Fairbairn St.

N. McHenry St.

N. Lake Shore Dr.

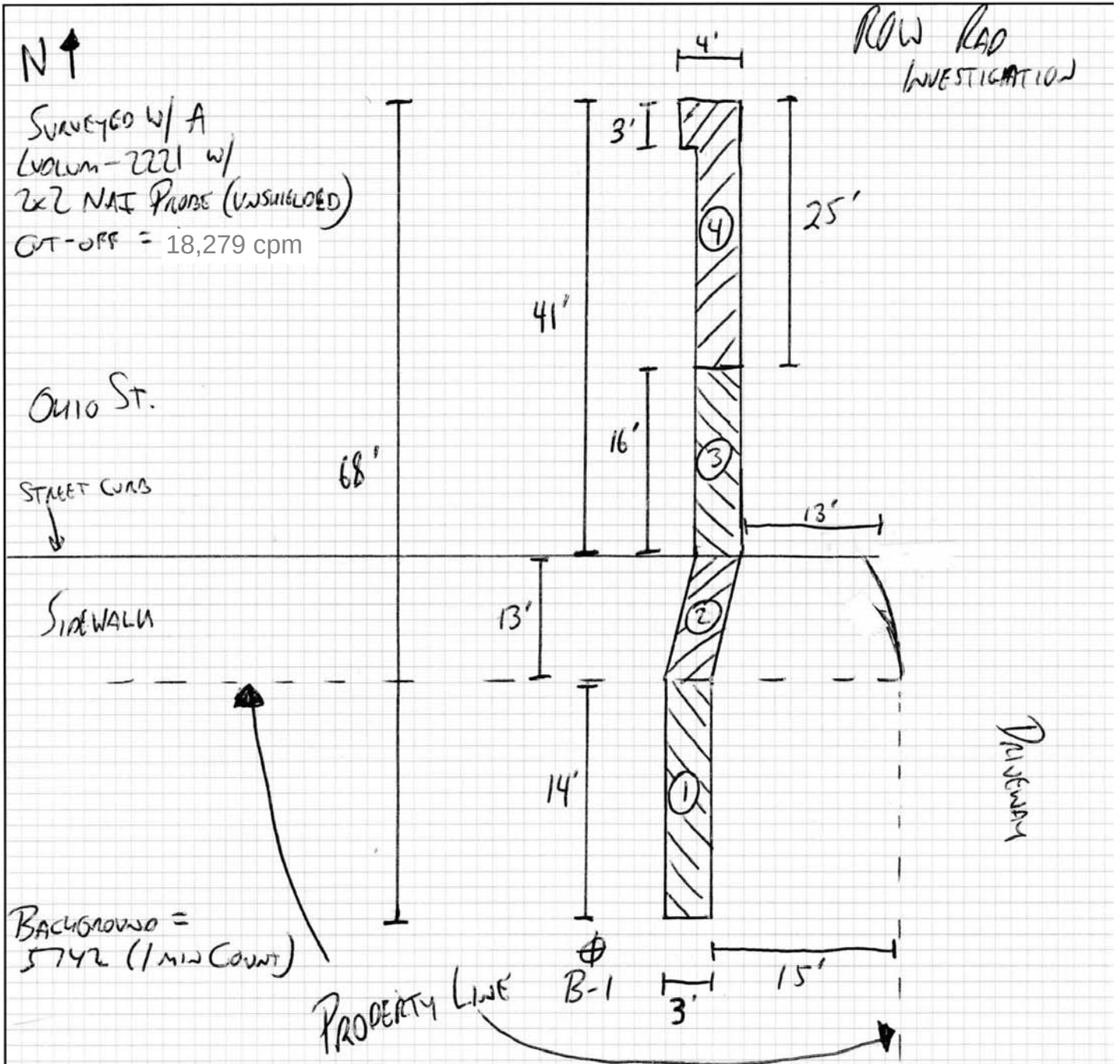
420 E OHIO ST

*419 E Ohio St

E GRAND AVE (528 N)

SKETCH

JOB TITLE INTEGRITY - SYS N. McGraw Court - SERVICE INST
 JOB NO. 60157645 T.53 CALCULATION NO. -
 ORIGINATOR BRIAN SCHMITT DATE 2/4-5/2015
 REVIEWER STEVE KONDER DATE 2/6/2015
 SCALE N/A SHEET NO. 1 OF 1



LOCATION	DEPTH	CPM
①	0-18" -	7500
	18-36" -	9900
	36-54" -	11600
	48-66" -	10100
②	0-18" -	7400
	18-36" -	10800
	36-54" -	12500
	48-66" -	10400

LOCATION	DEPTH	CPM
③	0-18" -	6500
	18-36" -	10100
	36-54" -	12100
	48-66" -	10400
④	0-18" -	5700
	18-36" -	11100
	36-54" -	13500
	48-56" -	11700

PHOTOGRAPHS

Photos - 419-20 E Ohio Street Service Installation

