



AECOM
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Chicago, Illinois 60601

312-939-1000 tel
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August 23, 2018

Mr. Anton Collins
Power Construction Company
8750 W. Bryn Mawr Ave, Suite 500
Chicago, IL 60631

RE: Sewer Line Connection - Remediation
Permit No.: 1604905
Permit Address: 465 N. Park Ave. (322-40 E. Illinois St.), Chicago, Illinois
AECOM Project No. 60508241

Dear Mr. Collins:

The information included in this report was submitted to the U.S. Environmental Protection Agency (USEPA) previously and is included with the Completion Report for the adjacent site (465 N Park Dr.). This ROW letter report is being submitted at this time at the request of the USEPA so that it can be included on the Streeterville ROW results website.

Pursuant to conditions specified in a Chicago Department of Public Health (CDPH) permit (attached), radiation monitoring was required to be performed during excavation activities at the above referenced site. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance between September 28 and October 10, 2016 for the trench excavation necessary for the installation of a new sewer line connection for the new development at 465 N. Park Dr.

On September 28, 2016 surveying was performed within the trench and of the spoil removed at 340-322 E. Illinois St. (refer to Figure 1) for the sewer service line connection installation. The excavation was approximately 15-feet long by 5-feet wide with a planned termination depth of 8-feet below ground surface (bgs). In addition, potholing was conducted 15-feet east of the sewer line on October 10, 2016. The potholing excavation was approximately 20-feet long by 7-feet wide with a planned termination depth of 4-feet bgs. The potholing excavation area was related to a telecommunication utility line (AT&T).

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 Model 2221 survey meter and an unshielded 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 7,018 (S/N: 172039) counts per minute (cpm) shielded. The background value for the adjoining Site was determined by averaging six (6) 1-minute counts with resulting background value of 6,901 cpm (unshielded).

On September 28, 2016 during excavations related to the sewer line service connection, elevated gamma readings were identified at approximately 4-feet bgs within the sidewalk right-of-way (ROW). Gamma survey readings were observed as high as 14,000 cpm shielded within the trench. As a result of the elevated gamma readings identified during the sewer connection excavation, potholing was conducted 15-east of the hot spot to determine whether the contamination extended into the planned telecommunication utility line excavation. On October 10, 2016 potholing excavation of the communication utility identified elevated gamma readings at approximately 2-feet bgs with gamma survey readings as high as 9,100 cpm shielded. Both excavations were marked and backfilled with screened fill or 1-inch stone until the remediation activities.

Remediation excavation activities for radiologically-contaminated fill identified at the sewer and telecommunication trenches were initiated on October 15, 2016. Due to close proximity of the two excavations, the remediation combined both into a single remediation excavation. The remediation excavation was approximately 16-feet long, 10-foot wide and approximately 5-feet bgs. During the remediation activities a total of 6 cubic yards (CY) of contaminated fill was removed and placed directly into two 3.5 CY bulk storage bags, which were temporarily stored on the west side of the Site until a majority of the utility work was completed. The contaminated fill was identified between 2 to 4.5-feet bgs. A composite sample was collected for each of the bags, which indicated total radium activities of 14 and 28 pCi/g. (Table 1). The contaminated fill was shipped for disposal in March 2017 to US Ecology in Grand View, Idaho.

Table 1
Gamma Survey and NUTRANL Results

Bag No.	Volume (yd ³)	Weight (lbs)	Nutranl - Total Ra (pCi/g)
465-1	3.0	6,500	14.03
465-2	3.0	6,140	28.72

Excavating equipment used in the excavation of radiologically-contaminated fill was surveyed to confirm the equipment was free of radiological contaminants prior to being released from the Site. Perimeter and personal air monitoring (PAM) were conducted during the remediation. The equipment release surveys and air monitoring indicated no issues.

The base of the excavation, as well as the southern, western and northern sidewalls, were remediated to clean limits. The USEPA collected a verification sample from the base of the excavation at a depth of 5-feet bgs and a second sample from the eastern wall where slightly elevated readings were still observed. This 3-foot high x 5-foot wide area on the eastern wall just south of the temporary ComEd duct bank exhibited readings between 6,500 and 8,000 cpm shielded. The uppermost portion of this area was approximately 15-18 inches below the grade of the sidewalk. The majority of the observed readings were only slightly over the instrument threshold of 6,338 cpm equivalent to the USEPA removal action level. The sample was collected from the section of the eastern wall that exhibited the highest gamma readings. Once sampling was complete, the USEPA approved the backfilling of the excavation so that utility installation activities could continue. A layer of plastic and sheet of plywood were put in place against the eastern sidewall to delineate/mark the area. The excavation where the sewer trench will be located was then over excavated to a depth of 8 feet bgs where native sand was encountered. Finally, the excavation was backfilled with the original spoil.

The USEPA base of excavation sample (LL161015-01 Floor) results indicated radium-226 and radium-228 results of 0.66 and 0.48 pCi/g, respectively. The eastern sidewall sample (LL161015-03 Wall) indicated radium-226 and radium-228 results of 9.7 and 1.06 pCi/g, respectively.

As part of the permit conditions this letter has been forwarded via email to:

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

Permit No.: DOT711169
Permit Address: 465 N. Park St. (340-22 E. Illinois St.)
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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

PERMIT

CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT



SEWER PERMIT



SEWER PERMIT # 1604905

**JAMES O'SULLIVAN
O'SULLIVAN PLBG (SL)
9726 W 194TH STREET
MOKENA, IL 60448**

Sewer License #: 78
Effective Date: Aug 30, 2016
Special Deposit#: 1600779

Permit Fee: \$ 125.00

Phone: 708-326-1400

Estimated Cost: \$ 80,000.00

Building Use:

Project Number:

Number of Units:

Covenant Number:

Type of Work: 07-08 Connection
Location of Work: 465 N PARK DR WARD 42 POLICE 18 FIRE 1
Restrictions: 1- 12" SAN. CONN. TO MAIN SEWER IN ILLINOIS.
INSTALL 2.51" PLATE RESTRICTOR IN VAULT.
STORAGE PROVIDED- 5,752 CU. FT.
STORAGE REQUIRED- 5,236 CU. FT.
PERMIT IS FOR INSIDE / OUTSIDE WORK. 1 -8" STORM CONN. TO MAIN SEWER IN ILLINOIS.
Number of connections: 1
Pipe diameter (inches): 8
Pipe material: Ductile Iron Pipe

Issued By: P. MALONEY

Approved By: P. MALONEY

Comment: 47 STORY, 444 DWELLING UNIT RESIDENTIAL TOWER

3 sets of plans approved by DOS w/ req. plumbing drawings: YES

Number of units: 444

Zoning approval: Yes

Public way permit or ordinance: Yes

The site plan with sewer/sewer structure installed quantity: Yes

Elevations referenced to the City of Chicago city datum: Yes

DOB permit: Yes

Building use: APARTMENTS

**CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT
SEWER PERMIT**

Plans Sent to Inspectors:	Chief Inspector Name:
Plans Received by Inspectors:	Approval Date:
Actual Inspector:	As Built Sent to Main Office:
Job Completion Date:	As Built Received by Main Office:
As Built Plans Complete:	Plans Sent to be Microfilmed:
Other:	

Conditions of Sewer Permits

1. Work performed under authority of this Permit shall be in accordance with the ordinances of the City of Chicago and the rules of the Department of Water Management.
2. Sewer permits are not licenses to make openings in the Public Street or parkway. Before making any opening in the street, parkways or sidewalk, a permit for such an opening must be obtained from the Bureau of Inspections of the Department of Transportation. The permit to make house drain repairs, to connect a sewer or drain to the City sewer, or to abandon a sewer line in the public way is not valid until the street opening permit has been obtained and is in the possession of the Sewer and Drain, or Wrecking Contractor's Foreman in charge of the work at the location in question.
3. Connections to the public sewers shall be made to junctions or as referenced in the latest edition of the Regulations for Sewer Construction and Stormwater Management - Permit and Fees handbook.
4. Work performed under this permit shall conform to the plans approved by the Department of Water Management. Field changes in the plans must be authorized by said Department.
5. The work authorized by this permit shall not be performed without prior notice to the Department of Water Management. Said notice is to be made 48 hours before said work. All sewer activity including but not limited to retrofits / driveways / televising / lining / seals / stubs / wrecking / abandonment require inspections. No building, structure - sewer line shall be installed, wrecked, demolished or abandoned without notification in writing to said Department.
6. Where sewers or drains are extended from stubs, the Sewer and Drain Contractor to whom this permit is issued must examine the existing sewer stubs in the presence of a sewer inspector. No connections shall be made to stubs unless they are in good, clean, clear, undamaged condition and approved for use by the Sewer Inspector.
7. Sizes and Grades of House Drains shall be in accordance with the City Municipal Code or as directed by the Department of Water Management. (Note: for foot prints of more than 15,000 square feet and open spaces of more than 7,500 square feet, the sizes shall be determined by the Department of Water Management's stormwater reviewers.)
8. In the event of an emergency, sewer repair work must be registered prior to commencement of work. A permit MUST be obtained no later than 24 hours from date of registration.
9. Permittee is responsible for following OSHA safety regulations and assumes all liability for work-related damages.

"Not valid unless receipted by the Department of Revenue City of Chicago. Permits and Deposits for Sewer work shall be void one (1) year from date of generation."

PERMIT OFFICE PHONES WILL BE OPEN DAILY: MONDAY-FRIDAY, (312) 744-3020/ (312) 744-3155. FOR REGISTRATION OF EMERGENCY WORK ON EVENINGS, WEEKENDS, AND HOLIDAYS, CALL: (312) 744-3155. FOR INSPECTIONS CALL: (312)744-5503(House Drain) / (312)744-5502(Mason)

Annotated Drawing

Figure 1 Remediation Area

