



135 S. LaSalle Street, Suite
3500
Chicago IL 60603
T 312 541 4200

June 4, 2021

Ms. Denise Holland
Christy Webber Landscapes
2900 West Ferdinand Street
Chicago, Illinois 60612

**Re: Thorium Screening Summary Letter
Tree Planter Grating Upgrade
610-620 North Rush Street, Chicago, Illinois
Permit #DOT1532547**

Dear Ms. Holland:

Pursuant to conditions specified in an excavation screening permit (see attachment A) issued by the Chicago Department of Public Health (CDPH), radiation screening survey was required to be performed at the above referenced area. The area to be surveyed was within several existing tree planters along the west Right-of-Way (ROW) of 610-620 North Rush Street, south of the intersection of North Rush Street and East Ontario Street in Chicago, Illinois.

Screening for Thorium

On May 28, 2021, Larry Bertsch from RPS and Aaron Morris from RSSI were present for inspection and thorium screening activities during the tree planter upgrades with cast iron grating within the Right-of-Way area at the above-referenced address. The work was performed on the sidewalk areas along the west side ROW of 610-620 North Rush Street. Five existing street planter areas were upgraded by removing surface soils and installing the cast iron grates to match surface grade.

Less than one foot of soil was excavated for the installation of the metal grates around the tree planter areas. Some of the surrounding concrete sidewalk was trimmed to make the grates fit in the designated areas. Any ungraded areas around the tree planters was paved with paver bricks to match the surrounding grade. The fill soil around the trees was screened using a Ludlum Model 12 survey meter with a sodium iodide scintillation detector (serial number 149080). The screening survey was required for potential thorium contamination during any intrusive activities when fill materials could potentially be disturbed in the Streeterville Area.

The Ludlum Model 12 meter has a thorium calibration value of 4,757 counts per minute (cpm) with a background reading of 2,400 cpm on the Site on May 28, 2021. The calibration value plus the background gives an action limit of 7,157 cpm for the meter at the Site for the duration. Any meter readings over 7,157 cpm would be considered elevated and would require soil sampling and isolation procedures upon waiting for analytical results to confirm the radiation results. The USEPA cleanup level for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g) total radium (Ra-226 + Ra-228).

The concrete in each area was broken up by a jackhammer and removed. The underlying soil was slightly graded so that sidewalk components could be installed. In the median area, the concrete was removed, and a limited amount of grading was performed. The area was screened using the Ludlum meter. The screening readings were as follows:

<u>Location</u>	<u>Measurement (counts per minute)</u>
Planter 1 (south end)	3600 (maximum)
Planter 2	3200 (maximum)
Planter 3	3200 (maximum)
Planter 4	3400 (maximum)
Planter 5 (North end)	3400 (maximum)

RPS screened around each of the planter areas prior to excavation of the soil around each tree. Generally, only about 4 inches to 6 inches of soil was excavated for the installation of the metal grates and the surrounding paver bricks. the concrete surface and the fill soil after the concrete was broken/removed. All the screening results from each of the planter areas listed above were below the USEPA screening action level for thorium; thus, no suspected thorium contamination was detected in the work area. Several planter areas surrounding sidewalk concrete were trimmed for the installation of the grates. The concrete and underlying soils were also surveyed. Photographs of selected field activities are included in Attachment B.

As part of the permit conditions this letter is forwarded to:

Chicago Department of Public Health
Attention: Terry Sheaham
333 South State Street, Room 200
Chicago, Illinois 60604

US Environmental Protection Agency
Attn. Verneta Simon
77 West Jackson Blvd.
Chicago, Illinois 60604

If you have any questions, please feel free to contact me at 312-262-4330.

Sincerely,

RPS Group, Inc.



John H. Yang, LPG
Senior Vice President

cc: Verneta Simon – USEPA
Terry Sheaham – Chicago Department of Public Health

Attachments:

- A - CDPH Authorization/Permit & Work Area Map
- B - Photo Documentation

Attachment A

Site Location Map & CDPH Permit



DEPARTMENT OF PUBLIC HEALTH
CITY OF CHICAGO

(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): Denise Holland

Signature: [Handwritten Signature]

Site Address and Work Location (Describe exact site location and attach map): 610-620 N Rush St - parkways

Nature of Work: planter removal to grade, tree grate placement

Company Name, Address, Phone No.: Christy Webber Landscapes, 2900 W Ferdinand St, Chicago, IL 773.533.0477

General / Prime Contractor Name, Address, Phone No.: Christy Webber Landscapes, 2900 W Ferdinand St, Chicago, IL 773-533-0477
Include subcontractor information if applicable

Safety Officer / Phone No. Jasmine Cabrales - 872-808-2065

Radiation Contractor / Phone No. and email address (if applicable) RPS Group/John Yang -312.262.4330, john.yang@rpsgroup.com

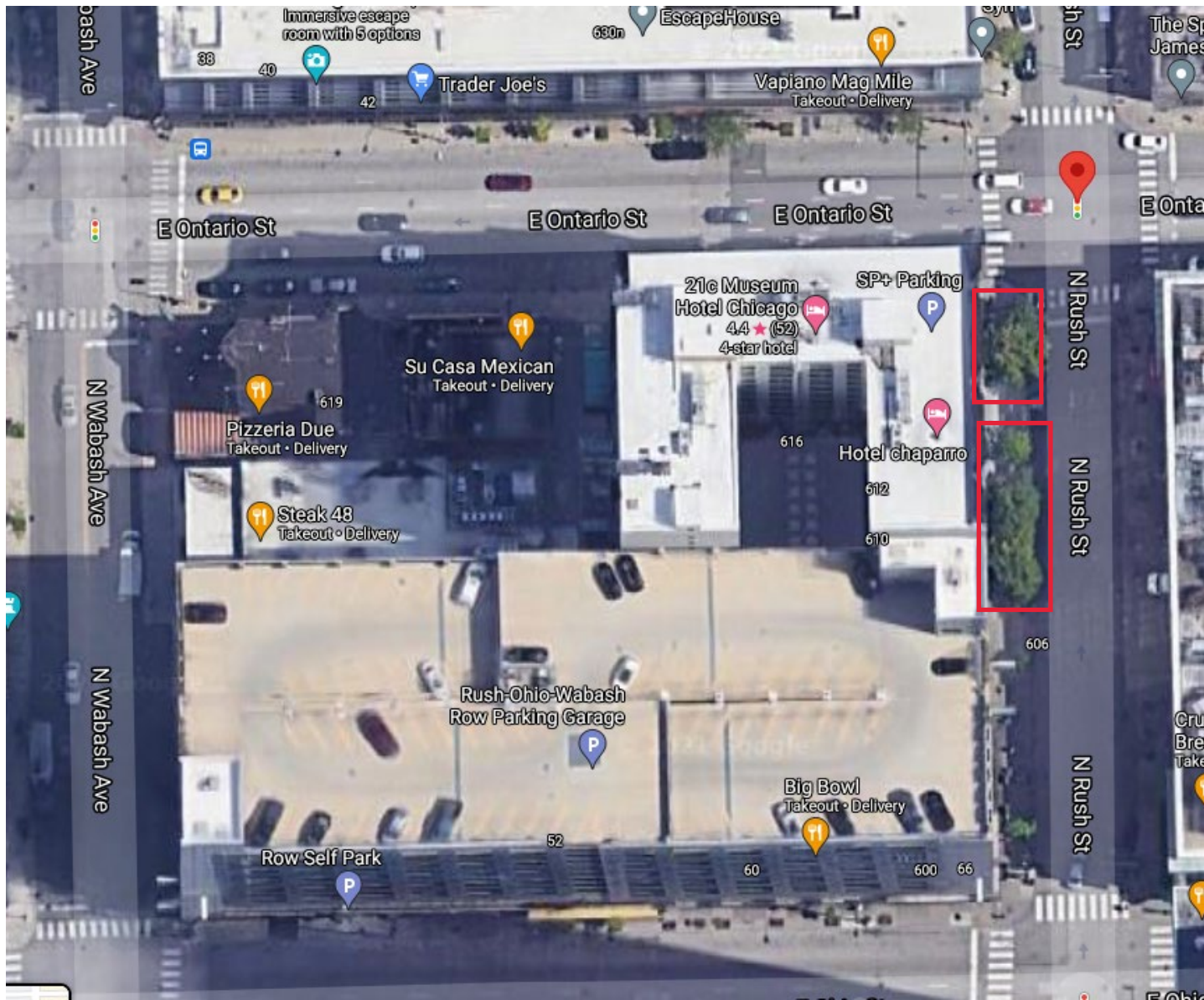
Check if City Department Work [] Department Name: n/a

CDOT Permit No.: DOT1532547

Today's Date: 5/20/21 Expected Start Date: 5/28/21 CDPH Approval / Date ahmad nur 05/20/2021

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)

For CDPH Use Only



Attachment B

Photo Logs



Photo 1: Looking south as workers excavate soils in Planter Areas #1 and #2 after screening. 5/28/21



Photo 2: Looking north as Planter Area #4 and #5 are screened. 5/28/21



Photo 3: Looking south as Planter Area #3 is excavated after screening. 5/28/21



Photo 4: Looking North as Planter Area #5 is screened after concrete removal. 5/28/21