



EPA Region 5 Records Ctr.



368702

Ms. Rahmat Begum
City of Chicago Department of Environment
30 North LaSalle St.
25th Floor
Chicago, IL 60602

ARCADIS-US, Inc.
630 Tollgate Road
Suite D
Elgin
Illinois 60123
Tel 847.695.8855
Fax 847.695.7799
www.arcadis-us.com

Subject:

City of Chicago Radiological Thorium Monitoring for Water Suppression Line Environmental Investigation at ComEd's IC Air Rights TDC 745 Substation, 201 N Columbus Drive, Chicago, Illinois

Dear Ms. Begum:

Date:
07/29/2010

This letter report documents radiological thorium monitoring activities related to an environmental investigation for construction of a new water line at Commonwealth Edison Company's (ComEd's) IC Air Rights TDC 745 Substation located at 201 N Columbus Drive, Chicago, Illinois ("the Site").

Contact:
Wei-Lin Feng

Phone:
847.649.2022

On July 22, 2010, ARCADIS-US, Inc. (ARCADIS) performed environmental soil boring testing in the public right of way near Commonwealth Edison's (ComEd's) IC Air Rights Substation at the northeast corner of E Lake Street and N Columbus Drive in Chicago, IL ("the Site"). In accordance with the attached permit issued by the City of Chicago, radiation monitoring was performed at the Site.

Email:
WeiLin.Feng@arcadis-us.com

Our ref: EGO.12447.0000

ARCADIS' hired Joel Ahrweiler, HP Tech from Stan A. Huber Consultants, Inc. (SAHCI) of New Lenox, IL, to perform surveys at the site using a Ludlum Model 2221 Scaler / Ratemeter with attached 2"x2" NaI probe (serial no. 134542). The action level representing the USEPA threshold of 7.1 pCi/g for this meter is 17,774 counts per minute (cpm). The background count rate measured by SAHCI for this location was approximately 4000 cpm as measured by SAHCI.

Surveys were performed of all soil removed from two separate 1.8" diameter geoprobe soil borings taken to 9 feet below ground surface. The boring locations can be seen in the attached Fire Protection Design Plans. Both borings were performed by K&S Engineers, Inc. of Highland, IN under the supervision of ARCADIS' field engineer. The maximum count rate for the first boring was 4300 cpm and the second boring was 4200 cpm as determined by SAHCI. Both borings were well below the action level of 17,774 cpm, thus no further actions were taken at the Site.

Imagine the result

ARCADIS

If you have any questions or need additional information, please contact us at (847) 649-2022 or (847) 649-2048.

Sincerely,



Wei-Lin Feng, P.E., P.G.
Principal
ILLINOIS P.E. # 062-048678



Scott Nellis, EIT
Staff Engineer

Cc: Verneta Simon, US EPA
Sara Race, ComEd
Willie Thomas, ComEd
Eugene O'Donnell, ComEd

ARCADIS

Attachments

Permit # 769584484



Received Date: Jul 14, 2010 1:39:3

**K & S ENGINEERS, INC.
9715 KENNEDY AVENUE
HIGHLAND, IN 46322**

**City of Chicago
Department of Transportation
(312) 744-4652**

MICHELLE DEAL 219-924-5231

ACTIVITY HOURS
See **RESTRICTIONS** for permitted hours
DATES
Jul 19, 2010 through Jul 30, 2010

ACTIVITIES

Soil Borings: **Dig #: TBD**

2 Soil Borings will be at this location.

Excavation may commence on - NO SOONER.

201 N COLUMBUS DR
APPROVAL FROM DEPT OF ENVIRONMENT BY R. BEGUM, 7/16/10
OK'D JMAC

Restrictions:

1. A copy of the permit must remain on-site for inspector's review.
2. Permit fees must be paid within 24 hours of the date of issuance. Failure to pay will result in you being considered in violation of the terms and agreement of the permit and subject to any applicable fine and fees as if you never attained a permit. Additionally, you will still be responsible for the cost of the original permit. Monthly billing accounts are not applicable to the 24 hour payment criteria but failure to pay the monthly bill by the due date will result in the same penalties applying.
3. Contractor must notify **DIGGER** at 312-744-7000 no less then 48 hours (exclusive of Saturdays, Sundays and Holidays) but no more then 14 calendar days in advance of the start of the

769-924-5231

Restrictions:

excavation or demolition, unless the excavation date was provided with the application and remains unchanged. Prior to 26 calendar days the Contractor must notify DIGGER to renew the dig date!

4. It is the Excavator's responsibility to request refreshing of marks when needed, but no longer than 28 calendar days after the last requested date.
5. When applicable, all excavation areas are to be clearly marked in safety white paint prior to calling DIGGER. White paint is not required for joint meets or emergency work.
6. Excavators requesting dig tickets are responsible for the protection of utility markings at the job site. Any markings of underground utilities utilizing utility colors, must be done by facility owners or authorized agents only.
7. Maintain pedestrian and vehicular traffic at all times.
8. All pavements are to be restored in accordance with CDOT Construction Standards.
9. Pavement opening to be backfilled to grade or plated during off work hours.
10. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
11. Permanent base pavement restoration to follow within 5 days after the completion of underground work.
12. Permittee to provide all barricades, signs and/or flagmen as necessary.
13. Work permitted only between 9:30 AM and 3:30 PM.
14. Contractors to post signs to indicate: BIKE LANE CLOSED - SHARED LANE YIELD TO BIKES.

It is also the permit holder's responsibility to restore to original condition any damage to any bikeway, including replacement pavement markings and signage. You must contact Ben Comberg (312) 744-8093 48 hours in advance of any activity.

15. No work in or use of the public right of way is to be done when a special event is taking place. It is up to the applicant to determine if an event is scheduled. To obtain a listing of programs or events within the City of Chicago please dial 311 when you are within the City boundaries.
16. It is the responsibility of the applicant to fund Traffic Control Aides if the City deems it necessary due to heavy congestion situations.
17. Pursuit to City Ordinances 10-20-150 and 10-28-281.3 a re-inspection fee of \$100 may be assessed for each inspection conducted after the initial inspection.

Soil Borings

07-16-2010	Fee for Activity				
CEM:	Y	Cost Per EA:	\$ 354.00	CAPS:	300 84-2135-255
Disred:	N	# Of EA:	1.00	Late charge:	\$.00
Mo 4:	N			Amount:	\$ 354.00

Total Fees: \$ 354.00

Grand Total Fees: \$ 354.00

Affected CUAN Sites: 7, 15, 18, 20, 21, 22, 24, 28, 29, 31, 34, 36, 38, 53, 61, 65, 68, 86, 141, 147

EFFECTIVE DATES OF PERMIT

Current: Jul 19, 2010 through Jul 30, 2010 (Input date: Jul 14, 2010 1:39:03 p.m.)

END OF PERMIT

LEGEND

- PROPOSED WATER SERVICE
- EXISTING WATER SERVICE
- EXISTING 8" WATER MAIN
- EXISTING 12" WATER MAIN
- EXISTING 18" WATER MAIN
- EXISTING 24" WATER MAIN
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- EXISTING 2940" WATER MAIN
- EXISTING 2946" WATER MAIN
- EXISTING 2952" WATER MAIN
- EXISTING 2958" WATER MAIN
- EXISTING 2964" WATER MAIN
- EXISTING 2970" WATER MAIN
- EXISTING 2976" WATER MAIN
- EXISTING 2982" WATER MAIN
- EXISTING 2988" WATER MAIN
- EXISTING 2994" WATER MAIN
- EXISTING 3000" WATER MAIN

NOTES

1. THE UNDERGROUND UTILITY LOCATIONS SHOWN ON THIS PLAN ARE SHOWN FROM DRAWINGS PROVIDED BY THE CHICAGO DEPARTMENT OF TRANSPORTATION. LOCATIONS OF NEW UTILITIES SHALL BE DETERMINED BY FIELD SURVEY. LOCATIONS ARE APPROXIMATE AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION. LOCATIONS NOT SHOWN ON THIS PLAN ARE THE RESPONSIBILITY OF THE CONTRACTOR.

2. CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT - SEWER SECTION IS 12" TO 36" IN DIAMETER. ALL SEWERS SHALL BE 12" TO 36" IN DIAMETER. ALL SEWERS SHALL BE 12" TO 36" IN DIAMETER. ALL SEWERS SHALL BE 12" TO 36" IN DIAMETER.

3. ALL SEWERS SHALL BE 12" TO 36" IN DIAMETER. ALL SEWERS SHALL BE 12" TO 36" IN DIAMETER. ALL SEWERS SHALL BE 12" TO 36" IN DIAMETER.

4. CONTRACTOR IS RESPONSIBLE TO VERIFY SEWER MANHOLE CATCH BASINS, LATERALS AND INLETS. A FOUR (4) FOOT MINIMUM HORIZONTAL SEPARATION AND A TWO (2) FOOT MINIMUM VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL PROPOSED UTILITY INSTALLATIONS AND EXISTING SEWER MANHOLES, CATCH BASINS, LATERALS AND INLETS.

5. CONTRACTOR SHALL PROVIDE (INCLUDING TO NEARBY STREET) TRAFFIC CONTROL FOR THE CHICAGO DEPARTMENT OF TRANSPORTATION REGULATIONS FOR UTILITY CONSTRUCTION AND REPAIR AT THE PUBLIC WAY WHILE MAINTAINING VEHICULAR TRAFFIC AT ALL TIMES.

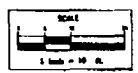
6. THE EXISTING ABOVE GROUND UTILITY STRUCTURES AND IMPROVEMENTS SHOWN ON THESE DRAWINGS WERE FIELD LOCATED BY HOK ENGINEERING, LLC USING CONVENTIONAL (GUYAN) STATION DATA COLLECTION METHODS DURING THE WEEK OF MAY 10, 2010.

7. CONTRACTOR SHALL EXPOSE AND PREPARE WATER MAIN FOR PRESSURE CONNECTION AND SHALL PROVIDE ALL NECESSARY MATERIALS CONFORMING TO CITY OF CHICAGO STANDARDS. CONTRACTOR SHALL COORDINATE WITH THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT, WHO WILL PERFORM THE PRESSURE CONNECTION.

NOTE: UTILITY LOCATIONS SHOWN ON THIS PLAN SHOULD BE CONSIDERED PRELIMINARY. THESE DRAWINGS ARE NOT FOR CONSTRUCTION.

PROJECT BENCHMARK

LOCAL BENCHMARK - CROSS CUT IN SOUTHWEST CORNER OF THE INTERSECTION OF COLUMBUS DRIVE AND LAKE STREET. MARK IS 2.2' NORTH OF THE SOUTH LINE OF E. LAKE STREET AND 1.1' EAST OF THE WEST LINE OF COLUMBUS DRIVE. ELEV. = 900.00'



Fire Protection Design CIVIL PROJECT PLAN VIEW	
TDC 745 IC AIR RIGHTS	
DATE: 05/10/10 DRAWN BY: J. KELLY CHECKED BY: J. KELLY PROJECT NO.: 09-000000-0000	SHEET NO.: C-2 TOTAL SHEETS: 1

