AECOM
100 S. Wacker Drive, Suite 500
Chicago, Illinois 60606

312-939-1000 tel
312-939-4198 fax

January 8, 2018

Mr. Jim Mass
Speedy Gonzalez Landscaping, Inc.
10624 S. Torrence Ave.
Chicago, IL 60606

RE: Lakefront Trail Separation – Monroe St. to the Chicago River
Digger Nos.: 600357913, 600357914, 600357915, 600357918, 600357919, 600357920 and 600379781
Permit Address: 1 - 401 North Lakeshore Dr. and 1-201 South Lakeshore Dr.
AECOM Project No. 60558306

Dear Mr. Mass:

Pursuant to conditions required by the United States Environmental Protection Agency (USEPA) and the City of Chicago Department of Public Health (CDPH), radiation surveying was required to be performed at the above referenced Site. AECOM Technical Services, Inc. (AECOM) provided the required radiation surveillance from November 11, 2017 until December 15, 2017 for replacement of bike path pavement and trenching activities associated with the relocation of several light poles west of the Chicago Yacht Club.

The majority of the surveying was performed on the gravel subgrade exposed after the removal of the existing path pavement. Most of the removed pavement was asphalt. In some instances top soil and fill soil were screened, specifically for the trench and light pole work west of the Yacht Club. The path work areas consisted of small to large sections of the existing trail. Larger sections of trail were several hundred feet in length. These larger sections were subdivided and surveyed in sections approximately 15-feet wide and 30-feet long. Screening was also completed for the trenching and excavations necessary to relocate several light poles west of the Chicago Yacht Club and supply power to them. The trenches were completed to a various depths, but generally had a maximum depth of 36 inches below ground surface (bgs). New light poles were installed to a depth of approximately 60 inches bgs. The fill soil for the light poles was screened after removal by the auger. The attached annotated drawings indicate the locations of the screening activities and the attached tables present the field gamma measurements. Specifically, the tables present the maximum gamma count observed for each survey area.
The monitoring did not indicate that the fill soils were above the removal action level established by the U.S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. 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 Models 2221 survey meter and a shielded 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 7,374 (S/N: 172039) counts per minute (cpm) shielded. The field instrument gamma background for fill soil in the vicinity of the path excavation areas was measured at 2,000 to 2,500 cpm unshielded.

The field gamma measurements beneath the removed pavement and within the excavated areas of the project did not exceed the instrument threshold previously stated, and ranged from a minimum of 700 cpm to a maximum of 4,500 cpm shielded. Based on field observations there was no indication of the presence of radiologically-contaminated fill and/or an exceedance of the USEPA removal action level of 7.1 pCi/g total radium. Copies of the annotated drawings and results tables have been included as attachments.

As part of the monitoring requirements a copy this letter has been forwarded to:

Chicago Department of Public Health
Attention: Mr. Terry Sheahan
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,

Kyle Korczak
Geologist

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

cc: Terry Sheahan, Chicago Department of Public Health
Verneta Simon, USEPA

Attachments: Results Tables and Annotated Drawing

TABLES

Gamma Survey Results
DuSable Harbor Park - Lakefront Trail Separation

Survey Dates: 11/17-20/2017

Label (South to North)	Maximum CPM (shielded)	Label (South to North)	Maximum CPM (shielded)
1	1400-2500	16	1000-1900
2	1100-2700	17	1000-2100
3	1000-2400	18	1100-2000
4	1400-2300	19	1200-1900
5	1300-2800	20	1200-2100
6	1100-2900	21	1600-2000
7	1100-2700	22	1500-2100
8	1200-2100	23	1300-2100
9	1100-2400	24	1500-2700
10	1000-2200	25	1300-2100
11	1000-1400	26	900-1300
12	1200-1500	27	1300-2000
13	1100-1800	28	1400-1900
14	1200-1600	29	1300-2000
15	1300-2600		

Survey Date: 11/28/2017

Label (North to South)	Maximum CPM (shielded)	Label (North to South)	Maximum CPM (shielded)	Label (North to South)	Maximum CPM (shielded)
30	1000-2100	49	900-3000	68	2000-3600
31	900-2200	50	1100-2300	69	1800-3200
32	700-1800	51	1200-2300	70	1700-3600
33	800-2000	52	1100-2100	71	1900-3200
34	800-2200	53	1100-2000	72	2100-2800
35	600-1800	54	1100-2300	73	1700-3600
36	800-1700	55	1200-2000	74	1400-3200
37	800-1600	56	1200-2500	75	1400-3100
38	800-2200	57	1200-2000	76	1600-3200
39	900-1700	58	1300-2500	77	1900-3000
40	1100-2500	59	1300-2300	78	1700-3300
41	900-2600	60	1400-3200	79	2000-3500
42	1300-2700	61	1400-2500	80	1300-3200
43	1300-3000	62	1400-2500	81	1500-3200
44	1700-2700	63	1500-3200	82	1700-3200
45	1200-2400	64	2000-3100	83	1400-2900
46	1200-2000	65	1900-4000	84	1500-3500
47	1500-2900	66	1600-2800	85	1100-2200
48	1500-2500	67	1900-3200		

Gamma Survey Results
DuSable Harbor Park - Lakefront Trail Separation

Survey Dates: 12/13&15/2017

Label	Depth bgs	Maximum CPM (shielded)	Label	Depth bgs	Maximum CPM (shielded)
86	0"	2500-3000	94	0"	2100-2400
	18"	3100-3400		18"	3000-3200
87	0"	2800-3500		36"	2800-3300
	18"	3700-4000		36-60"	2300-3100
	36"	3700-4100	95	0"	2400-2700
88	0"	2300-2000		18"	3100-4000
	18"	3200-3400	96	0"	2400-2600
89	0"	2400-2600		18"	3300-3600
	18"	2800-3600	97	0"	2100-2600
	36"	2100-3700		0-30"	2100-3900
90	0"	2000-2600		30"	3500-4300
	0-60"	3000-3900	98	0"	1800-2600
	60"	3800-5100		0-30"	2700-3100
91	0"	2100-2700		30"	3700-4500
	18"	1800-3600	99	0"	2600-3100
92	0"	1900-2500		0-30"	2200-3600
	0-60"	2100-4000		30"	3400-4100
	60"	3000-3900	100	0"	2000-3500
93	0"	2300-2500			
	0-30"	2200-2500			
	30"	3900-4100			
	spoil	2100-3100			

ANNOTATED DRAWING

Project Management Initials: ___ Designer: ___ Checked: ___ Approved: ___ ARCH D 24" x 36"
Filename: P:\60508479\900_WORK\910_CAD\20-SHEETS\CIVIL\RIVER-ROOSEVELTICXX_EXIST PLAN.DWG Last saved by: KOSTAMOL Last Plotted: 2017-09-01
Filename: P:\60508479\900 WORK\910 CAD\20-SHEETS\CIVIL\RIVER-ROOSEVELTICXX_EXIST PLAN.DWG Last saved by: KOSTAMOL Last Plotted: 2017-09-01

LEGEND

REMOVE EXISTING PATH ASPHALT/CONCRETE PAVEMENT, AGGREGATE SHOULDER AND SUBBASE TO SPECIFIED DEPTH AND DISPOSE OFF SITE

REMOVE CONCRETE SLAB (FULL DEPTH U.N.O) AND SUBBASE TO SPECIFIC DEPTH AND DISPOSE OFFSITE

NOTES

1. EXISTING CONCRETE AND ASPHALT TRAILS, ADJACENT AGGREGATE TRAILS, AGGREGATE SHOULDERS AND SUBBASE SHALL BE REMOVED TO A DEPTH THAT WILL ALLOW FOR THE NEW TRAIL CONSTRUCTION.
2. REFER TO SOIL EROSION AND SEDIMENT CONTROL SHEETS FOR TREE PROTECTION AND LIMITS AND DETAILS.
3. REMOVE AND SALVAGE EXCESS SOFT TRAIL SURFACE MATERIAL THAT IS IN GOOD CLEAN CONDITION AND STOCK PILE AT LOCATION DESIGNATED BY OWNER FOR CHICAGO PARK DISTRICT REUSE.
4. SEE SHEET E-01-E-02 FOR REMOVAL AND RELOCATION OF ELECTRIC LIGHT POLES.

205+00

205+00

210+00

±62' REMOVE ASPHALT TRAIL

±135' REMOVE ASPHALT TRAIL

±113' REMOVE ASPHALT TRAIL

200+00

100+00

REMOVE ±89' LONG ASPHALT TRAIL

105+00

REMOVE ±25' LONG ASPHALT TRAIL

Start of Areas 34-85

REMOVE ±65' LONG ASPHALT TRAIL

REMOVE ±270' LONG ASPHALT TRAIL AND AGGREGATE SHOULDERS

Areas 34-85 screened in approx. 30ft sections starting at the north and extending to the south (refer to drawing C-09)

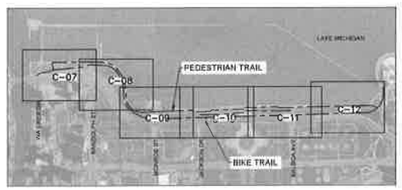
N. LAKESHORE DRIVE

E. WACKER DRIVE (WB)

E. WACKER DRIVE (EB)

E. RANDOLPH ST.

MATCH LINE C-8



KEY MAP

N

50 0 50 100

SCALE: 1" = 50'

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CHICAGO PARK DISTRICT SEAL · HORTUS IN URBE · ORGANIZED 1934

CHICAGO PARK DISTRICT

541 NORTH FAIRBANKS
Chicago, Illinois
60611

E
D
C
B
A 100% SUBMITTAL
REVISIONS DATE

PROJECT MANAGER
PROJECT MANAGER
DIRECTOR OF ENGINEERING

PROJ. MGR.: WJW
DESIGNER: CH/SS
DRAWN: LK
CHECKED: WJW
SCALE: As Shown
DATE: 08/22/2017
SPEC. NO.:
JOB NO.: 60532605
SHEET INFORMATION

P-15000-180

EXISTING CONDITIONS & REMOVAL PLAN

PARK NO./PROJECT NO.
P-15000-180

C-07

DRAWING NO.

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LEGEND

REMOVE EXISTING PATH ASPHALT/CONCRETE PAVEMENT, AGGREGATE SHOULDER AND SUBBASE TO SPECIFIED DEPTH AND DISPOSE OFF SITE

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4. SEE SHEET E-01-E-02 FOR REMOVAL AND RELOCATION OF ELECTRIC LIGHT POLES.

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541 NORTH FAIRBANKS
Chicago, Illinois
60611

REVISIONS	DATE
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D	
C	
B	
A 100% SUBMITTAL	

PROJECT MANAGER
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DIRECTOR OF ENGINEERING

PROJ. MGR.: WJW	
DESIGNER: CH/SS	
DRAWN: LK	
CHECKED: WJW	
SCALE: As Shown	
DATE: 08/22/2017	
SPEC. NO.:	
JOB NO.: 60632606	

SHEET INFORMATION

EXISTING CONDITIONS & REMOVAL PLAN

PARK NO./PROJECT NO.
P-15000-180

C-08
DRAWING NO.

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Filename: P:\60508479980_WORK\910_CAD\20-SHEETS\CRIVER-ROOSEVELT\CXX_EXIST PLAN.DWG Last saved by: KOSTAMOL Last Plotted: 2017-09-01
Project Management Initials: Designer: Checked: Approved:
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Filename: P:\60508479\900 WORK\910 CAD\00-SHEETS\C\RIVER-ROOSEVELT\CXX EXIST PLAN.DWG Last saved by: KOSTAMOL Last Plotted: 2017-09-01
Project Management Initials: Designer: Checked: Approved:
ARCH D 24" x 36"

MATCH LINE C-8

MATCH LINE C-10

LEGEND

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REMOVE ±130 SF CONCRETE

REMOVE 10'x20' ASPHALT DAMAGE AT OLD UTILITY TRENCH CUT AREA

REMOVE 4: 5'x5' ASPHALT SURFACE DAMAGED AREAS

REMOVE ±277' LONG PROMENADE

REMOVE ±38' LONG ASPHALT TRAIL

REMOVE ±965' ASPHALT TRAIL

REMOVE ±135' LONG ASPHALT TRAIL

DEMO AND RECONSTRUCT 110' OF 12' WIDE TRAIL

REMOVE ±47' LONG (VARIABLE WIDTH) ASPHALT SERVICE DRIVE

REMOVE 72 SF DAMAGED CONCRETE(2 SLABS)

220+00 | 225+00 | 230+00 | 235+00 | 125+00 | 130+00 | 135+00

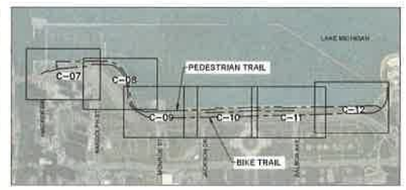
Areas 1 through 10 working south to north in 30ft sections

Light Pole and trench excavation areas

End of areas 34-85

N. LAKESHORE DRIVE

E. MONROE ST.



KEY MAP

N

50 0 50 100

SCALE: 1" = 50'

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CHICAGO PARK DISTRICT

541 NORTH FAIRBANKS
CHICAGO, ILLINOIS
60611

REVISIONS	DATE
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B	
C	
D	
E	

PROJECT MANAGER

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P-15000-180

C-09
DRAWING NO.

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