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November 19, 2014

Mr. Dan Martinez
Project Manager, Lakefront Trail Improvement
F.H. Paschen
5515 N. East River Road
Chicago, IL 60656

RE: Bi-weekly Letter Report Update #10
Lakefront Trail Improvement, Chicago, IL
AECOM Project No. 60318016

Dear Mr. Martinez:

Pursuant to conditions specified in permits issued by the City of Chicago Department of Public Health (CDPH), radiation monitoring is required to be performed for the above referenced project whenever construction activities will disturb fill soils that has not been previously screened for thorium. AECOM Technical Services, Inc. (AECOM) has been contracted to provide the required radiation surveillance and reporting.

An October 13, 2014 letter report was provided to document that no construction related activities were conducted that resulted in the disturbance of unsurveyed fill soils between August 16 and October 12, 2014. The October 13, 2014 letter report also provided notification that screening activities would resume in the future and be conducted intermittently as required. These screening would be associated with sidewalk, curb and paved bike path construction activities in the northern portion of the project area from the start of Retaining Wall “A” to the end of Retaining Wall “B” as shown on the attached figure. The activities would be restricted to shallow excavations to remove pavement and the existing shallow retaining walls north of the East Ohio Street pedestrian underpass between Lake Shore Drive and the Lake Michigan beach.

The surface of the exposed soil was surveyed after the removal of the pavement. The surface surveying activities occurred on November 5, 2014. A retaining wall running south to north split the area into two sections (east and west) of approximately equal width. For the instrumentation used, the gamma count threshold indicative of the 7.1 pCi/g USEPA cleanup value is 18,279 counts per minute (cpm) unshielded. The field gamma background for the area was measured at approximately 7,150 cpm unshielded for the top soils observed in the vicinity of the work area. After removal of the pavement, the majority of the material exposed along the eastern portion of the work area (east of the retaining wall) was predominantly tan beach sand. Gamma readings for this sandy area ranged from 4,300 to 6,700 cpm unshielded. The area west of the retaining was predominantly limestone gravel with the exception of an area in the northwest corner immediately adjacent to the concrete stairs. Gamma readings for the gravel ranged from 3,800 to 4,800 cpm unshielded. The brown to black fill soil immediately adjacent to the stairs exhibited gamma readings that ranged from 6,200 to 8,730 cpm with a maximum of 10,240 cpm unshielded.

Radiological screening on November 12, 2104 was conducted at the southern end of work area just north of the Ohio Street Underpass where several relatively massive concrete slabs and larger vertical retaining walls were removed. Dark brown to black top soil at the surface and in the immediate vicinity of the slabs did not appear to contain urban fill materials and exhibited gamma readings between 3,800 and 6,280 cpm unshielded. Immediately east of the retaining wall along the western side of Lake Shore Drive the fill material consisted predominantly of a tan to gray sandy gravel. Gamma readings for the sandy gravel ranged from 2,860 to 6,480 cpm. A small area of gray 2-4 inch slag fill was also observed in with the sandy gravel and exhibited a maximum gamma reading of 10,890 cpm.

The field gamma measurements within the work area did not exceed the instrument threshold previously stated. 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. As always, radiological surveying will be conducted when construction activities will result in the disturbance of subsurface fill soil that has not been previously surveyed. The USEPA will be notified if gamma readings indicative of radiologically contaminated fill soil are discovered during surveillance activities.

Please contact us with any questions you have regarding this letter or the reported results.

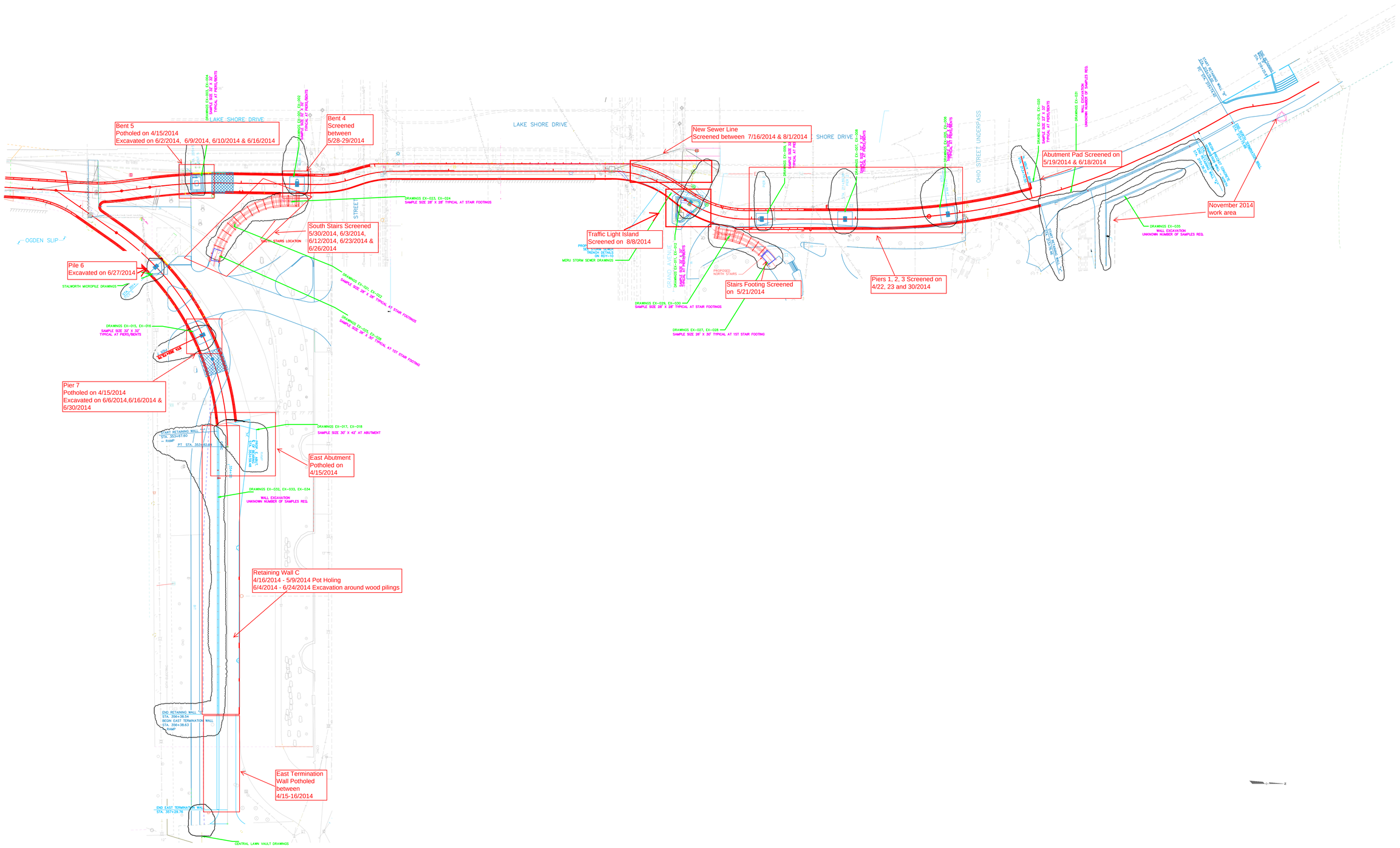
Regards,

Steve T. Newlin
Senior Project Geologist

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

cc: Michael Herbert, F.H. Paschen

LOCATION FIGURE



LAKEFRONT TRAIL IMPROVEMENT FROM JANE ADDAMS PARK TO OGDEN SLIP

OVERALL PROJECT PLAN AECOM EXCAVATION PITS

REVISIONS

NO.	BY	DATE	DESCRIPTION

F.H. PASCHEN, S.N. NIELSEN & ASSOCIATES LLC
GENERAL CONTRACTORS

DATE: 11/11/2013 | SCALE: N.T.S. | DRAWING: G-001