



April 25, 2016

Mike Lanenga
SET Environmental
450 Sumac Road
Wheeling, Illinois 60090

RE: 26th Street and Martin Luther King Drive – Radiation Monitoring
Former Carnotite Reduction Company Permit Hold Area

Dear Mr. Lanenga:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during the replacement of sidewalks and curbs at 26th Street and Martin Luther King Drive in Chicago, Illinois. The potential contaminants in the area surrounding the Former Carnotite Reduction Company are uranium (U-234+U-235+U-238) and radium (Ra-226+Ra-228). The monitoring was performed on April 19, 2016 – April 21, 2016.

Instrumentation

Surface gamma scans were performed by Brian Schmidt using a Ludlum Model 2221 Scaled / Ratemeter (serial no. 126496) with attached Ludlum Model 44-10 2"x2" NaI detector (6" lead shielded). The instrument was calibrated on October 15, 2015. The IEMA field action level which would trigger additional monitoring and sampling is twice the average background gamma count rate. The field action level is a conservative estimation of applicable regulatory limits based on the unknown ratios of uranium and radium in the area.

The average background count rate for this location was found to average 2,802 cpm. The field action level was calculated as 5,604 cpm.

Soil Gamma Scans

Gamma surface scans were performed using the Ludlum Model 2221 Scaler / Ratemeter described above. Data was collected by monitoring the soil in each 18 inch lift as it was removed from the excavation and recording the highest count rate to a maximum excavation depth of 2 feet.

The maximum gamma count rate for each lift was recorded on the attached Radiation Survey Form. The count rates in the excavation ranged from 1,900 cpm to 3,400 cpm. No count rates were found at any time that exceeded the field action level of 5,604 cpm.

Additional Monitoring

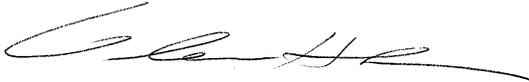
Since no count rates were identified above the field action level, no additional soil sampling, air monitoring, or personnel monitoring were performed.

You will need to forward a copy of this report to the following within two weeks of completion of the onsite monitoring:

City of Chicago Department of Fleet and Facility Management
Attn: Abby Mazza
30 North LaSalle St. – Suite 300
Chicago, IL 60602

Thank you for your assistance with this project. If you have any questions or need additional information please call me at (815) 485-6161.

Sincerely,
Stan A. Huber Consultants, Inc.

A handwritten signature in black ink, appearing to read 'G. Huber', with a long horizontal flourish extending to the right.

Glenn Huber, CHP
President

Radiation Survey Form

Location/ Project ID: 26th + Milk Dr - Sidewalk/Curb Replacement - Chicago, IL

Date: 4/19-21/2016

Technician: BRIAN SCHMIDT

Inst Model: LV02M-2221

Serial No. : 126496

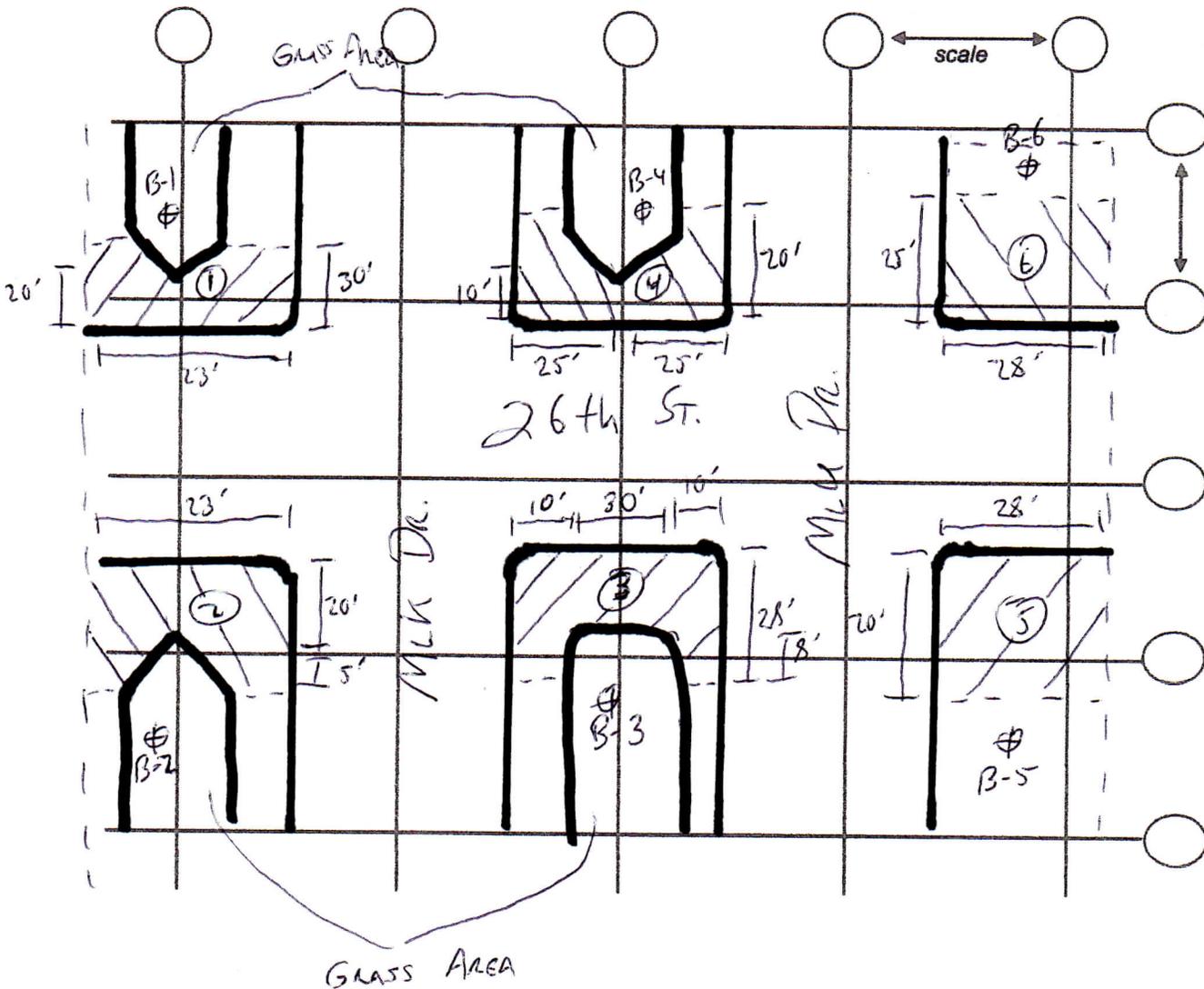
Probe Type: 1"x1" NaI / 2"x2" NaI
Shielded / Not Shielded

Lift Elevation: 0-24"

Background 2802 cpm

Action Level: 2x Background = 2,802 cpm x 2 = 5604 cpm

Write grid designations in circles. Record highest counts for grid in cpm. Record 30 second counts at grid intersections (if required). Shade areas of elevated counts and record max cpm.



Radiation Survey Form

Location/ Project ID: 26th + MLK Dr. - Sidewalk / CURB REPLACEMENT - CHICAGO, IL

Date: 4/19-21/2016

Technician: BRIAN SCHMITZ

Inst Model: LucyLyn - 2221

Serial No. : 126496

Probe Type: 1"x1" NaI / 2"x2" NaI
Shielded / Not Shielded

Lift Elevation: 0-24"

Background 2802 cpm

Action Level: 5604 cpm

Write grid designations in circles. Record highest counts for grid in cpm. Record 30 second counts at grid intersections (if required). Shade areas of elevated counts and record max cpm.

