

Appendix B
Subsurface Gamma Screening Results



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June 11, 2012

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**Subject: Subsurface Gamma Screening Results (Final)
Former Carnotite Reduction Company
East 26th Street and Ellis Avenue, Chicago, Illinois
AECOM Project No. 60158985.0500**

Dear Mr. Latoza:

AECOM Technical Services, Inc. (AECOM) has prepared this final report for the Public Building Commission of Chicago (PBC) that summarizes the results and findings of the down-hole gamma survey conducted between April 11, 2011 and May 4, 2011. The survey was performed in the vicinity of the former Carnotite Reduction Company facility located along East 26th St., east of Dr. Martin Luther King Drive and west of Lake Shore Drive (referred to as "Site"). The subsurface investigation was performed in accordance with the March 2011 work plan which was submitted and reviewed by both Illinois Emergency Management Agency (IEMA) and the United States Environmental Protection Agency – Region V (USEPA).

If you have questions, please contact the undersigned. AECOM appreciates the opportunity to assist PBC with the radiological surveying.

Respectfully,

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Subsurface Gamma Screening Report (Final)
Former Carnotite Reduction Company
East 26th Street and South Ellis Avenue
Formerly identified as 2600 Iglehart Court
Chicago, Illinois

Prepared for the Public Building Commission of Chicago
By AECOM
Project No. 60158985.0500
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1 Introduction

At the request of the Chicago Department of Environment (CDOE), through a contract with the Public Building Commission of Chicago (PBC), AECOM Technical Services, Inc. (AECOM) has prepared this draft report that discusses the findings of subsurface gamma screening conducted as follow-up to surface screening work completed by others in 2009 and by AECOM in late 2010 and early 2011. Historical information provided by the Illinois Emergency Management Agency (IEMA) suggested that an area in the vicinity of East 26th Street and South Ellis Avenue (formerly identified as 2600 Iglehart Court) in Chicago, Illinois was the location of the former Carnotite Reduction Company (referred to as "Site"). The Carnotite Reduction Company was reportedly an elemental radium separation and refining facility that operated in this vicinity in the early 1900's. On August 12, 2009, IEMA visited the Site and conducted radiological surface surveys. These initial visits were a result of closing out the radiological licenses at Michael Reese Hospital and to scan the buildings. Through record reviews, IEMA discovered a letter related to a former survey performed in 1979 on the site for gamma related to the former Carnotite operations. Based on its investigation, the IEMA distributed a letter to the CDOE dated August 18, 2009, indicating that the area does not pose an immediate health risk, but recommended additional characterization in the event invasive construction activities are to be performed. On December 14, 2010 and January 13, 2011, AECOM conducted surface gamma screening to delineate the surface radiological impacts and determine where the subsurface investigation should be targeted. Due to the shielding ability of the soil and surface paving, it was possible that radiological material would be found in the subsurface beyond the current footprint of surface radiological material.

The Site currently consists of grassed and paved surfaces as well as a large building that was part of the former Michael Reese Hospital complex. Although there are currently no specific development plans, the PBC had the radiological investigation conducted to characterize fill materials in this area and to better understand the potential radiological impacts. Specifically, this radiological subsurface survey is an investigation to determine the horizontal and vertical distribution of radiological contaminants.

1.1 Investigation Area

The subsurface survey was performed in the vicinity of the former Carnotite Reduction Company facility located along East 26th Street, east of Dr. Martin Luther King Drive and west of South Lake Shore Drive. The initial surface gamma survey was performed within the investigation area bounded by the red line as shown on Figure 1. Based on the results of the surface survey, the subsurface (down-hole) radiological investigation was conducted on a portion of the surface survey area where potentially elevated gamma readings were observed. The original down-hole survey area is shown bounded by yellow line on Figures 2 and 3. This investigation area was modified slightly based on the results collected during the down-hole investigation in order to delineate horizontally to an apparently clean boundary. Specially, the investigation area was expanded in the vicinity of the tennis courts in the southeast corner of the investigation area. The area was expanded (Figure 4) to the south with the addition of four rows of borings (i.e., rows P – S or approximately 80-feet) and to the east with one additional column (i.e., 20-feet).

1.2 Delineation Criteria

Field gamma survey results are only a qualitative or semi-quantitative means of determining where radiologically-impacted material potentially is present. Field measurements are generally evaluated via comparison to background readings collected at the site. In general, based on experience from Streeterville investigations, gamma readings less than twice background are considered within the acceptable range of normal results, while readings over three times background may be a potential indication of impacts. Ultimately, the delineation of radiologically-impacted soils is based on gamma spectroscopy and the background activity of the radionuclides of concern. The background activity of the radionuclides is determined based on the gamma spectroscopy analyses of samples collected at the site. Based on background, site-specific delineation criteria are determined and/or approved by the regulatory

agency (state or federal) providing oversight for this work. It should be noted that no criteria are currently approved for the former Carnotite Reduction Company Site.

2 RADIOLOGICAL SURFACE SURVEY

2.1 Surface Gamma Survey Results

The procedures and methods utilized for the surface gamma survey follow those described in the November 18, 2010 work plan developed by AECOM and reviewed by IEMA and the USEPA. The results of the surface survey were presented in a February 2011 (AECOM) report and are summarized briefly below.

The surface gamma survey utilized an unshielded Ludlum 2221 rater-scaler with a 2 x 2 inch (in.) sodium iodide (NaI) probe. Surface readings were recorded continuously and logged at a minimum of every 2 seconds and synchronized real-time to global positioning system (GPS) instrumentation as the operator traversed the investigation area. The individual traverses were spaced approximately 3 feet apart and generally parallel the boundaries of the screening area. During the surveys, the instrument probe was positioned near the ground surface and generally about 2-inches above the ground. The investigation area was surveyed on December 14 and 15, 2010, with additional surface screening data collected on January 13, 2011. Over 25,000 data points were collected over the investigation area, reviewed for QA/QC purposes, and contoured using Surfer visualization software. The final contour map of the surface gamma readings is presented in Figure 2 (Figure 1a in the Surface Gamma Survey Report).

The field instrument background for a paved surface was calculated at 4,050 counts per minute (cpm). Conservatively, gamma readings less than twice the field instrument background would generally not be considered as an indication of potential radiological impacts. Therefore, the shading on the contour drawing (Figure 2) was set up so that the color change from dark blue to light blue/light green occurs at approximately twice the paved background or 8,100 cpm. Although twice the soil background would be higher (approx. 13,600 cpm), the use of twice the paved background value is a more conservative approach for reviewing the data in its entirety. Shading for twice the unpaved background value (13,600 cpm) occurs where the shading changes from orange to reddish-orange/dark orange. Figure 2 indicates that elevated gamma readings were not observed over a large portion of the Site. Specifically, portions of the investigation area to the south and east of Building No. 1 did not exhibit elevated gamma readings as defined by twice the field instrumentation background value for paved surfaces. It is important to note that the unpaved or grass covered area south and west of the berms along East 26th Street exhibited gamma counts below the twice the unpaved background value of 13,600 cpm and predominantly below 10,000 cpm.

Gamma survey results indicate that elevated readings occur in the north-central portion of the investigation area and a smaller area directly south of Building No 1. Gamma readings observed were well above twice background for both paved and unpaved surfaces. The maximum gamma readings observed near the northwestern corner of the Site were just over 90,000 cpm. It should be noted that the survey results also show that the paved road surface is providing significant shielding, which results in the highest readings appearing to be along the edges of the roadway. As such, radiologically-impacted soil likely extends or is contiguous beneath the street.

Since a cleanup criteria and equivalent field instrumentation threshold has not been established for the Site, elevated gamma readings were defined as readings that exceed twice background. Utilizing twice the paved background value (8,100 cpm), a significant portion of the investigation area was observed to have surface gamma readings that were not indicative of radiologically-impacted material. Specially, this was the southern and eastern portions of the surface gamma investigation area. As stated earlier, the largest grass covered area occurs in the western portion of the surface investigation area and extends north and east to include the berms along East 26th Street. As shown on Figures 2 and 3, this grass covered area exhibited gamma counts below twice the unpaved background value of 13,600 cpm. Thus,

elevated surface gamma readings indicative of radiologically-impacted material were not observed with this area.

The surface gamma survey observed elevated gamma readings in the north-central portion of the investigation area adjacent to and likely beneath East 26th Street. Peak gamma responses exceeded 90,000 cpm in an area west of the existing building and near the East 26th Street curb line. The results further show that the paved road surface is likely providing significant shielding and the radiologically-impacted soil likely extends or is contiguous beneath the street.

Based on the findings of the surface gamma survey, a work plan to investigate subsurface conditions in the vicinity of the elevated gamma readings (twice background) as a means to characterize the vertical extent of the elevated surface gamma response was developed and submitted to IEMA and USEPA in March 2011. The investigation plan primarily focused on the north-central portion of the Site where anomalous surface readings were recorded, but was also extended laterally beyond these areas because the impacted materials are commonly more expansive with depth because of limitations of the Ludlum instrumentation (i.e., shielding effects limit the surface gamma screening technique to the upper 1.5-feet for soil and 1-foot or less for paved areas).

3 Radiological Subsurface Survey

The primary purpose of this report is to provide down-hole gamma results and the corresponding laboratory radionuclide analytical data for the Site to determine the vertical and horizontal extent of radiological contaminants as well as the relationship between field gamma screening results and the gamma spectroscopy data produced by IEMA.

3.1 Pre-Field Activities

Pre-field activities included working with the PBC and CDOE to obtain permits and clearances for drilling in the streets/rights-of-way (ROW). Some of the surface impacts identified were found in the public ROW of East 26th Street. As such, a permit was obtained from Chicago Department of Transportation (CDOT) for drilling in the ROW.

DIGGER, the City of Chicago utility locate dispatch service, was also notified to locate subsurface utilities in the public areas (streets and ROW) in the area of the proposed borings 48 hours prior to starting the subsurface survey. A private utility locator was also used to locate utilities on the private portions of the Site. The results of the two utility locates were reviewed, along with the geophysical survey conducted as part of the surface gamma survey, to verify that the utilities in the investigation area were identified prior to drilling in the investigation area. The subsurface investigation area is presented on Figure 3. The borings were placed in a 20-ft grid, which resulted in 250 potential borings. Based on the field instrument background and cutoff estimates for the Site, it was intended that at least one boring beyond the edge of the observed subsurface impacts would be installed to confirm the horizontal extent. On the first day of the field work the locations of the identified utilities were "ground-truthed" by observing the locations of power and phone poles, above-ground transformers (where electrical distribution lines are below ground), manholes, water meters, natural gas meters, phone boxes, surface indications such as utility vaults, catch basins, surface depressions that can occur over utility trenches, and the locations marked by the utility companies or their representatives. In several cases, individual utility companies were contacted to verify and/or correct their prior markings.

In accordance with OSHA, AECOM prepared a site-specific health and safety plan (HASP) for the subsurface field work. The HASP addresses required training, personnel protection equipment, general work precautions, and medical monitoring (if necessary) as pertinent items included in the HASP. Potential hazards that could be encountered during the field activities included contact with radiologically contaminated materials and the hazards associated with soil boring/drilling work. Radiation health physicist services were provided by Stan A. Huber Consultants, Inc. (Huber). Site-specific radiation and health and safety training were provided to the on-site project personnel prior to performing the down-hole work. Site personnel were trained and briefed on radiation basics, anticipated hazards, equipment to

be worn, safety practices to be followed, contamination prevention practices, emergency procedures, radiation basics and communications. Contaminants of concern include the entire decay series for uranium (U)-238.

3.2 Down-hole Gamma Survey Method

The down-hole surveys utilized a Ludlum 2221 rater-scaler with a 0.5 x 1 inch NaI probe Model 4462 that was equipped with a 1-inch lead end-cap. The purpose of the lead end-cap is to shield some of the gamma radiation from below the probe so that the readings as much as possible reflect the gamma radiation encountered laterally from the probe. It should be noted that these gamma measurements are not discrete values and represent an average of the gamma emissions in all three dimensions. Thus, where gamma readings are high, it is common that soil layers above or below the probe will influence the results. In part, this is why laboratory analyses for discrete samples will not always correlate with field measurements.

A Geoprobe rig was utilized to install the boreholes and collect samples for radioisotope analyses. Del Mar, Inc. was subcontracted by AECOM to perform the direct-push drilling services for this project. A 1-inch internal diameter (ID) PVC monitoring well riser pipe was inserted into each Geoprobe borehole following removal of the sample. Screening was conducted through the PVC casing rather than through the steel Geoprobe tubing (push rods), since the steel would significantly reduce the sensitivity of the down-hole survey. Down-hole readings were recorded in one-minute scaler counts at 1-foot intervals. The survey probe was lowered into the borehole to a depth of one-foot where the one-minute gamma count was recorded. The probe was subsequently lowered another foot and another one-minute gamma reading recorded. This process was repeated until the entire depth of the borehole was surveyed at one-foot intervals.

After completing the down-hole gamma measures within a borehole, the PVC casings were removed to be reused. These PVC casings, and the Geoprobe tubing push rods, were screened for adhering contamination between boreholes. If there was an indication of contamination, any adhering soil was brushed off of the down-hole equipment and placed with the potentially contaminated cuttings for proper disposal. These procedures were sufficient to prevent cross-contamination between boreholes.

The subsurface down-hole gamma surveys were conducted by trained individuals including a geologist (AECOM) and health physicist (Huber) experienced in performing subsurface gamma surveys using a Ludlum 2221 rater-scaler NaI probe. This probe was calibrated using the calibration blocks and drums with known concentrations of radioisotopes that are used for field instrument calibration for projects in both Streeterville and West Chicago. It is recognized that the isotope composition of the carnotite ore material used at the former Carnotite Reduction Company is different from the monazite material used in Streeterville (i.e., containing uranium and low concentrations of radium versus thorium with low concentrations of radium), but this calibration to a defined value in West Chicago provides a point of reference for instrumentation that may aid in data interpretation. Based on the calibration in West Chicago, the 0.5 x 1 inch NaI probe Model 4462 (with a 1 inch lead end-cap) has a response of approximately 439 cpm per picocurie (pCi) for radium. Copies of the instrument calibration are included in Appendix 1. Thus, using the USEPA cleanup threshold established for Streeterville of 7.1 pCi/gram (g) the field instrumentation would have a cutoff of about 3,100 cpm. It should also be noted that the down-hole (0.5 x 1-inch NaI) and surface (2 x 2-inch NaI) investigations were conducted with different size probes. Thus, the field instrumentation equivalent to 7.1 pCi/g is different for each of the probes (i.e., the surface and subsurface surveys).

3.3 Down-hole Background Value

The initial down-hole borings were conducted along the eastern side of the Site where it appeared that radiological contamination would be absent based on the surface screening data (i.e., L-27 and M-27 area) (Figure 4). These initial borings were used to verify procedures and determine the gamma count for materials that were most likely to represent background conditions at the Site. Based on the borings conducted at the Site, and the gamma results observed, there were several non-impacted soil/fill types observed. The first was demolition debris that apparently had been used to fill in historical foundations

that pre-date the construction of Michael Reese Hospital. This demolition material consisted of sand, gravel and concrete with traces of brick and cinders. The down-hole gamma readings observed for these materials were in the range of 500-750 cpm. The second category generally consisted of brown to black fill soil that ranged from a fine to medium sand to silty clay. These fill soils also contained minor amounts of gravel and cinders and exhibited gamma readings that ranged between 1,000-1,200 cpm. Finally, a native tan to brown fine sand was encountered in a majority of the borings and gamma readings of between 500 and 750 cpm. In general, the native sand was encountered at about 6 feet-below the ground surface (ft-bgs) but deeper where historical foundations were present.

AECOM also reviewed the down-hole gamma data from borings outside the immediate areas of potential impact as indicated by the surface gamma survey (i.e., from within the proposed sampling grid, but well away from any identified surface anomaly). These borings were located toward the perimeter of the investigation area where surface gamma measurements had not suggested evidence of radiological impacts. The background boring locations were along the western and southern edge of the proposed sampling grid (Figure 2). Since gamma results are dependent on soil type (i.e., clay soils, brick, etc. can provide higher background gamma counts), AECOM chose boring locations where the initial surface survey values were lowest. Using 10 perimeter borings and taking an average of the gamma response recorded between the intervals of 2-4 ft-bgs, yielded a value of about 1,250 cpm.

AECOM used the above observations to estimate a radiation survey instrument background. Based on observed information it was believed that for the fill soils encountered a value of approximately 1,250 cpm could be utilized as the preliminary background value. As discussed in Section 1.2, approximately three times the field instrument down-hole background value was used as a qualitative means of determining areas of potential impact. Thus, it was believed conservatively that down-hole gamma readings greater than 3,500 cpm may be impacted above the yet to be developed cleanup threshold for the Site. These background/field instrumentation gamma values were intended to be a semi-qualitative means of determining potentially impacted materials until a more quantitative background value is established by the regulatory authorities.

3.4 Soil Sampling Procedures

The soil cores removed from the boreholes were scanned using a Ludlum Model 3 and pancake alpha probe. Since the volume of sample contained in the cores was relatively small, scanning with a pancake probe proved to be the best indicator of potentially impacted core sections. AECOM characterized soil samples for soil lithology in continuous intervals, in accordance with the Unified Soil Classification System, and noted in boring logs (see Appendix 2). It should be noted that Appendix 2 only contains boring logs for the boreholes that were completed. Some borings were able to be omitted from the investigation because they were not necessary in order to complete the horizontal delineation of the radiological contamination. Additionally, boring logs were not completed where refusal occurred. Instead the boring location was offset slightly to a location where the boring could be completed. In general, samples were collected from a majority of the completed borings for potential analysis by gamma spectroscopy. These samples were collected to represent a complete range of gamma readings as well as being spatially distributed across the investigation area. Specifically, more samples were collected than would be analyzed so that a more comprehensive evaluation of the spatial distribution of the results could be made before submitting the samples for radioisotope analysis.

The samples were initially collected in one-quart Ziploc bags. Following completion of the field work and review of the gamma survey results, the selection of soil samples for analysis was performed. A total of 58 soil samples were selected for gamma spectroscopy analysis. Prior to submitting samples for analysis, USEPA was provided with a drawing and table summarizing the down-hole gamma counts, depths from which samples were collected and whether or not the sample had been selected for submission for radiological analysis.

Priority for analysis was given to the surface and subsurface samples that exhibit the highest apparent gamma readings and those collected from unpaved areas. The remaining samples were collected from depths with the highest gamma reading, but consideration was also given to distributing these samples

horizontally across the apparent areas of impact to determine if the characteristics of the material differ appreciably.

A balance of clean and impacted surface samples (0-2 ft-bgs) were selected as well as a range of samples with varying gamma counts. For the >2 ft subsurface depths, predominantly impacted samples were selected. However, many of these samples were only slightly over a gamma count of 3,500 cpm. Samples from the berm in the northwest portion of the Site were also selected to characterize fill soils that comprise the berm. Down-hole gamma counts within the berms were generally well below the 3,500 cpm. In any case, two samples with gamma results between 1,000 and 1,500 cpm were selected for gamma spectroscopy analysis to document the radionuclide activities of the berm fill soil.

AECOM attempted to minimize the generation of waste during field activities. AECOM personnel placed what was considered to be clean cuttings (less than twice background or 2,500 cpm) generated during the coring back in the borehole from which they were derived. Soil cuttings that appeared to be impacted, based on field screening of the cuttings at the surface as well as down-hole gamma readings, were containerized within a single super-sack for characterization and disposal. The remainder of the open borehole was filled with bentonite chips to the surface and hydrated to form a plug at the surface. In paved areas, cold patch asphalt mix or Portland cement material was used to complete the surface.

3.5 Gamma Spectroscopy Results

AECOM personnel delivered the soil samples directly to the IEMA Radiochemistry Laboratory in West Chicago via standard chain-of-custody procedures to quantitatively determine radionuclide concentrations using gamma spectrum analysis. The chain-of-custody includes the sample dates, locations and depths. Copies of the chain-of-custody and the analytical results from IEMA have been included in Appendix 3.

Samples were placed in plastic bags at the time of collection and were later packed and sealed into an 8 oz. plastic cup just prior to submittal. All samples were analyzed for isotopic content by gamma spectroscopy using a Canberra high-purity germanium system coupled with the appropriate supporting electronics. The analysis was performed wet and results were later corrected for moisture content with a typical dry/wet ratio of approximately 0.85. Due to the wide range in activity present, the counting times ranged from 1 hour on the low end to overnight (16 hours) for lower activity samples. Analysis results in the attached files are reported in units of picocuries per gram (pCi/g) with the associated counting error and minimum detectable activities (MDA).

Samples were processed within approximately two weeks of submittal. Since they were repacked just prior to submittal, the Ra-226 would not have been in secular equilibrium with its daughter products at the time the samples were counted. While a state of secular equilibrium is optimal, Agency experience with samples from similar sites indicates there is less than a 10% difference between results for samples analyzed within hours after collection and the same sample analyzed after the period necessary for complete ingrowth.

Performing gamma spectrum analysis for uranium and radium in samples that contain significant concentrations of both radionuclides can be problematic. While the natural Uranium in Carnotite minerals is predominantly U-238 there is a small fraction that is U-235. U-235 produces a gamma at 185 keV which is very near the 186 keV gamma emitted by Ra-226. The proximity of these peaks makes it difficult to differentiate between the fraction contributed from U-235 and that which is contributed from Ra-226. Using the 186 peak for soil can result in either an overestimate of the Ra-226, if all counts in the 186 channel are attributed to radium or an underestimate, if the U-235 is sufficiently high to cause counts from the Ra-226 to be attributed to Uranium. Review of the results for samples from the former Carnotite Reduction site suggests that most of the areas are either clearly impacted (showing high radium, uranium or both) or approaching what would be considered background values. Based on this clear differentiation, we believe the existing data set provides the City of Chicago's Department of Environment and their contractors, AECOM with a strong basis for moving forward with determining cleanup options.

3.6 Equipment Release Survey

A health physicist (Huber) was present during the course of the field work to make daily recommendations regarding worker safety and potential exposure. Equipment and personnel decontamination procedures were followed in accordance with all local, state and federal requirements. All reusable equipment was screened between boreholes to confirm the absence of contamination. A Ludlum Model 3 Pancake Alpha Probe was used for screening personnel and equipment to confirm the absence of contamination and/or effectiveness of the decontamination procedures. At the completion of the field work, gross alpha wipes were performed on the drilling equipment to document the absence of radiological contamination before demobilization from the Site (Appendix 4).

4 Results

4.1 Down-hole Gamma Survey

The intent of the down-hole investigation was to delineate the horizontal and vertical extent of elevated gamma readings observed as well as the depth to native soil (i.e., sand) within the investigation area. The initial plan potentially included 250 borings equally spaced on a 20-ft grid across the down-hole investigation area. The intent was not to install all 250 borings, but complete the horizontal delineation by surrounding the potentially impacted area with one or more row(s) of borings without elevated gamma readings. The plan also initially called for extending the borings to 12 ft-bgs, but permission was granted by USEPA to limit the depth to a the native sand where it was encountered shallower than 12 ft-bgs.

The down-hole surveying was initiated on April 11, 2011 and continued through May 4, 2011. A total of 215 borings were advanced, down-hole logged and positions located with GPS instrument. In some instances the borings were offset slightly because of utilities, overhead obstructions, fencing, etc. Additionally, approximately 26 borings were offset slightly because of obstructions/refusal. It was apparent from the first day of drilling that numerous subsurface former foundations and/or basement slabs are present at the Site. These obstructions slowed drilling and caused several locations to be moved insignificantly, but did not result in the abandonment of any of these locations.

Additionally, due to subsurface radiological impacts identified in the borings at the southeastern edge of the original grid network (tennis courts), additional borings (rows Q, R and S) on a 20-ft grid spacing were completed to find the horizontal extent in the subsurface soils (Figure 4). The majority of soil borings on the Site showed native sand being encountered at approximately 5-6 ft-bgs. Urban fill soils were generally only encountered at depths greater than 12 feet at locations within the tennis court area on the southeastern side of the Site. It should also be noted that AECOM was granted approval from the PBC, CDOE and USEPA about extending the boring only slightly into the native soil horizon. Copies of the soil boring logs have been included in Appendix 2.

Figure 4 presents a drawing with the location of each of the proposed and completed borings. The 20-foot boring grid work was labeled alphanumerically starting in the northwest corner of the investigation area. Borings where all the down-hole gamma readings were below the value of 3,500 cpm are indicated with by a "X" on Figure 4. For borings with a gamma count above 3,500 cpm, the maximum value is indicated above the boring location. It should be noted that the values noted on Figure 4 were divided by 1000 (i.e., 48,000 cpm is displayed as 48).

Table 1 summarizes the results of the down-hole survey. The first two columns present the original location of the boring (easting and northing [in feet] using Illinois East State Plane NAD83). The revised easting and northing columns indicate if the boring was offset and the number of feet and direction of the offset. The location column provides the boring ID based on the alphanumeric grid work, while date column indicates the date the boring was drilled. The next two columns indicate the depth at which samples were collected. In several cases two samples were collected and the depths of the 1st and 2nd sample are denoted in these columns. The next column is the depth to native sand followed by the individual 1-minute gamma counts versus depth. It should be noted to facilitate easier interpretation that shading has been used to note the gamma values for native sand (blue) as well as yellow shading to note gamma readings over 3,500 cpm (estimated indication of impact).

The Site is relatively flat except for a berm that exists along the south and west sides of East 26th Street. Review of the gamma results suggested that the elevated readings were best represented as depth in feet-below the ground surface (i.e., ft-bgs). As such, the height of the berm was estimated and the gamma readings adjusted so that plots of the results would represent relatively flat slices parallel to the surface across the Site. Locations that have been adjusted are noted in the comments column as well as being denoted with the “#” symbol in the location ID. Thus, the above grade readings for borings through the berm have been placed at the bottom of the table in the notes sections.

The majority of the borings advanced were able to map the contacts between native soils and overlying fill soil. It is apparent from review of Table 1 that native sand was generally encountered at approximately 4-6 ft-bgs. The exception to this appears to be in areas where former building foundations were present. As mentioned earlier, numerous building foundations and/or basement slabs were encountered and noted during the drilling. In general, native sand was found below all of these slabs. An exception to this was in the vicinity of the tennis courts where native sand was not encountered within the first 12-feet. However, in the tennis court area the elevated gamma readings did not extend more than 4-5 ft-bgs.

4.2 Lateral & Vertical Radiological Extents

With respect to horizontal delineation, the elevated gamma readings observed in the surface and subsurface surveys were able to be delineated laterally to the east, south and west. However, the down-hole gamma results indicate that radiologically-impacted material extends into the City ROW north of East 26th Street.

The pre-field work and preliminary down-hole gamma findings suggested that gamma readings above 3,500 cpm represented potential indications of radiological impacts. Using 3,500 cpm as a down-hole field instrument threshold value for radiologically-impacted material, the subsurface gamma results collected generally indicated elevated readings in the same areas identified by the surface gamma survey. The only notable difference between the surface and subsurface was in the vicinity of the tennis courts. At the tennis court area the asphalt paving apparently shielded the radiologically-impacted soil in the subsurface investigation. Several additional rows (i.e., Q, R and S) just outside of the original down-hole investigation area (but within the original surface gamma survey area) were added to complete the delineation to the south.

It should be noted that the surface survey results were reviewed conservatively. The grass covered area north of the baseball field and south of the berm along East 26th Street showed gamma readings west and south of the berm generally less than twice the unpaved surface background value of 13,600 cpm (i.e., not indicative of the presence of radiologically-impacted material). In any case, potential borings were extended through this area to Martin Luther King Jr Drive. Substantiating the surface results, the down-hole gamma survey (and laboratory results) did not indicate the presence of elevated radiological impacts in the berm or the near-surface (0-2 ft-bgs) and subsurface soil south or west of the berm. In any case, several borings well beyond the perimeter of the potentially impacted fill soil were completed to confirm the absence of radiologically-impacted soil (refer to Figure 4, borings H-2, J-4, L-2, etc.). Thus, the gamma surveys (surface and subsurface) information indicated the absence of radiological impacts in the berm as well as surface and surface soils south and west of the berm.

It should be noted that three locations located below the berm just south of the sidewalk on East 26th Street had down-hole gamma readings >3,500 cpm (refer to locations E-5, E-6 and F-6 on Figure 4 and in Table 1). Maximum gamma readings at these locations ranged from 3,632 to 8,507 cpm. It appears that this material represents the western edge of the radiologically-impacted soil present adjacent and beneath East 26th Street.

With respect to vertical delineation, the down-hole gamma measurements were generally able to delineate elevated gamma readings vertically. The water table was encountered at 8-11 ft-bgs and native sand was generally encountered at a depth of 4-6 ft-bgs. Where foundations were present, native sand was encountered just below the basement or foundation slab. An exception to this was in the vicinity of the tennis courts where native sand was not encountered within the upper 12 feet. This area appeared to represent a deeper foundation or excavation that had been backfilled with fill material containing fine to

medium sand, gravel and some brick and cinders. However, this does not represent a concern regarding vertical delineation in this area because elevated gamma readings did not extend more than 4-5 ft-bgs. Thus, there were 6-feet or more of clean fill below the elevated gamma readings in this area.

A series of drawings were assembled to show the gamma readings versus depth at one-foot intervals (Appendix 5). The field instrumentation threshold value of 3,500 cpm was utilized as the initial contour line on these drawing and areas greater than 3,500 cpm have been shaded in yellow. The down-hole gamma results indicate, which was also confirmed by the laboratory data, that radiological impacts appear generally to be restricted to the fill soil at the Site. As indicated by the drawing in Appendix 5, the majority of the radiologically-impacted fill is restricted to the upper 4-feet, with the highest gamma readings occurring at the interval 2-3 ft-bgs. Specifically, the lateral extent of the impacted material begins decreasing quickly beginning at the 4-5 ft-bgs interval and is essentially limited to an area beneath East 26th Street near along the northern property boundary. In this area the elevated gamma readings decrease slightly with depth, but elevated readings extend to depths greater than 12 ft-bgs in the vicinity of borings A-8 and B-8. The elevated gamma readings appear to extend into iron-stained sand in this area. This iron-stained sand appears to be similar in grain size to the native sand encountered at other borings. It was not apparent whether the staining occurred in-place or was the result of the placement of impacted soil in a former excavation (i.e., an area potentially disturbed during utility work or if vertical downward migration of contamination into the native sand has occurred).

4.3 Gamma Spectroscopy Results

A total of 58 samples were selected and analyzed at the IEMA Laboratory in West Chicago, Illinois using gamma spectroscopy. The results of the gamma spectroscopy analyses have been summarized in Table 2 along with the corresponding field gamma reading for the sample. Copies of the chains-of-custody and the raw analytical data provided by IEMA are included in Appendix 3. The activities ranged from non-detect (ND) to 3,670 pCi/g for total uranium and from 0.85 to 1,181 pCi/g for total radium. It is apparent from review of the data that the activities of uranium and radium vary independently across the Site. This is an indication that the impacted materials represent a range of potentially raw and byproduct materials from the former operations. In few instances, specifically in the vicinity of borings A-8 and B-8, the sample activity is predominantly uranium, while in others (i.e., H-12) the activity is dominated by radium.

The table below (extracted from Table 2) presents the gamma survey results along with the laboratory results collected from the grass covered area south and west of along East 26th Street. It should be noted that samples were not collected from each and every boring, but it is clear that the low radionuclide activities correlates well with the low down-hole gamma readings observed in this area. Thus, the gamma surveys (surface and subsurface) information and associate gamma spectroscopy results indicated the absence of radiological impacts in the berm as well as surface and subsurface soils south and west of the berm.

Down-hole and Gamma Spectroscopy Results

Location	Sample Depth (ft-bgs)	One-Minute Gamma Count (cpm)	Total Ra (pCi/g)	Total U (pCi/g)
D-4	2	2,224	1.42	1.98
E-3	3	2,330	1.52	ND
E-7	2	3,882	6.85	6.47
F-5	7	2,454	4.40	3.77
G-6	1	2,544	3.15	4.33
H-4	2	1,212	2.09	1.19
H-6	3	3,091	2.67	2.02
H-7	2	2,431	2.02	3.90
H-7	Berm	1,469	2.30	3.95

I-8	Berm	1,011	2.34	2.15
J-10	1	2,746	5.03	4.55
Average		2,309	3.07	3.43

Little is known about the operations, raw materials or products that were used and produced by the former Carnotite Reduction Company. However, the Carnotite Reduction Company likely used a uranium ore called carnotite as its primary raw material from which to concentrate radium. Although the carnotite ore was relatively rich in uranium, the concentration of radium was only in the mg/kg range (i.e., ppm). Thus, large amounts of ore were required to produce relatively small amounts of radium. Based on a literature search, most of these radium production sites in the early 1900's only produced a few grams of radium each year. However, production of a few grams would have required hundreds of tons of uranium ore. The separation methods used also separated and concentrated uranium from the origin ore during the radium recovery process. It is not known whether uranium was ever produced at this facility. The impact of this is the uranium would likely have become a waste if it was not recovered as a product. In any case, based on the understanding of the process, plus historical samples collected by IEMA, the contaminants at the Site include radionuclides for both radium as well as uranium.

It is worth noting that the radium present at both the Carnotite Reduction Company and in Streeterville is the result of the radioactive decay process. However, the Carnotite Reduction Company raw material differs from that of Lindsay Light in Chicago's Streeterville. Specifically, the Streeterville process used an ore that was rich in thorium (monazite). Thorium was the element of interest for use in the production of gas light mantles. As a result, the remediation and cleanup efforts in Streeterville are primarily concerned with radium. However, the process and materials used at the Carnotite facility involved an ore that was rich in uranium as well as containing radium. As a result, investigation efforts at the Carnotite Reduction Company will focus on two radionuclides (i.e., uranium and radium).

Delineation criteria for these radionuclides will ultimately be based on the specified activities above background. Therefore, delineation criteria will be site-specific values determined and/or approved by the regulatory agency (state or federal) providing oversight for this work. It should be noted that no delineation criteria are currently approved for this investigation.

As indicated previously, the Site field gamma threshold for impacted material was based on a combination of Streeterville calibration standards (soil drums in West Chicago) and site-specific field information. Streeterville contamination is predominantly a single radionuclide (i.e., radium). Thus, there is reasonable correlation between field gamma counts and radium activities. In contrast, the Carnotite Reduction Company Site involves both radium and uranium, which vary independently across the Site. Although there is reasonably good correlation between the gamma counts and the gamma spectroscopy results, field gamma readings should be used with some caution because there may be a potential for appreciable uranium without the presence of radium.

The fact that the activities of radium and uranium vary independently (i.e., not in a constant ratio) across the Site complicates the use of gamma field instrumentation. Specifically, radium produces more gamma radiation than uranium at the same activity. As such, a small amount of radium will produce significantly higher gamma readings than a much greater amount of uranium. Figure 5 presents a scatter plot of the field gamma readings versus the radium and uranium activities for the 58 samples. The difference in the relative response of the gamma instrumentation is evident from review of this figure. In particular, there were five samples which were dominated almost entirely by uranium (i.e., low radium activity). These samples had total uranium activities of greater than 2,000 pCi/g, but field gamma responses of less than 61,000 cpm. On Figure 5 these samples plot well away from the remaining samples which possessed both radium and uranium.

Therefore, it should be recognized that the field delineation efforts using gamma radiation primarily responds to the radium activity present in the soil. Because the ratio of radium and uranium vary across the Site, a highly correlated relationship between field gamma response and soil activities likely will not necessarily be achievable for the entire Site. Although still highly useful, it should be recognized that the field gamma responses, which are based primarily on radium, will not necessarily identify soil necessary as impacted when radium activities are low and the uranium activity is intermediate (i.e., close to any future cleanup threshold). However, a review of the gamma spectroscopy information collected at the

Site is encouraging because the samples that had intermediate uranium activities also had sufficient radium activities and were identified by the field gamma as potentially impacted. Specifically, of the 58 samples (refer to Table 2), there were only two instances (samples A-8 and B-8) where the activity of radium was low (below 5 pCi/g) combined with an intermediate uranium activity (greater than 20 pCi/g). In these two cases the activity of uranium was considered significant (i.e., >2,900 pCi/g) and had a corresponding gamma reading well above the field instrumentation threshold of 3,500 cpm.

Knowing this was potentially the case, a conservative field instrumentation gamma threshold (3,500 cpm) was used for the down-hole delineation work. Figure 5 presents a scatter plot of the total activity data for all the radium and uranium versus the down-hole field gamma results for the Site. However, in Figure 6 the only the radium samples were displayed where the total uranium activity was under 50 pCi/g. Thus, for the plotted radium data (and the radium data regression line) in Figure 6, the associated field gamma readings are not influenced as appreciably by the uranium activity. Based on a linear regression line through these radium data the field gamma instrumentation value equivalent to the estimated cleanup criteria of 7.1 pCi/g (value used in Streeterville) would be about 4,260 cpm. This compares closely with the conservative value of 3,500 cpm which was used for delineation purposes.

Table 2 in the report presented a summary of the field gamma measurements and the laboratory gamma spectroscopy results. A review of the results indicates that of the 58 samples, 22 have total radium activities >7 pCi/g and 16 have total uranium activities >22 pCi/g. If the analytical data are reviewed on a combined basis, 25 of the samples contained activities that would likely exceed the potential cleanup criteria. Based on the field gamma readings, 38 samples exceeded the field gamma threshold 3,500 cpm, which was used to identify potentially impacted soil. It is important to note that no samples were identified by the laboratory as impacted that were not already identified as being potentially impacted by the field gamma survey. Thus, although apparently slightly conservative, the down-hole field gamma threshold value of 3,500 cpm appears to be adequately conservative to estimate the distribution of potentially impacted soil at the Site. Therefore, the delineation information depicted in this report appears to adequately estimate the horizontal and vertical extent of the radiologically-impacted soil fill on this Site.

Figures 7 and 8 present the gamma spectroscopy results from the laboratory where either the activity of radium (>7 pCi/g) or uranium (>22 pCi/g) were above the established thresholds. Figure 7 presents the data from the near surface (0-2 ft-bgs), while Figure 8 presents the subsurface results. Review of Figure 7 indicates that the majority of the samples with the highest elevated activities are in the northern portion of the investigation area predominantly beneath East 26th Street. Several of the highest gamma spectroscopy results (borings A-8 and B-8) appear to occur at depth in an iron-stained sand, which could potentially represent impacted native sand. It is also apparent in Figure 7 that the majority of the elevated uranium activities occur in this location (i.e., 5 of 6). The subsurface results presented in Figure 8 are similar to those of Figure 7. Again, the majority of the elevated uranium activities occur under East 26th Street and along the northern property boundary. It is also important to note that the highest uranium activities occur at depths of 7-feet or more (i.e., near the water table). The fact that the uranium activities are substantially greater in this area and occur at appreciably deeper than the rest of the Site suggests that the source or cause of the impacts is different from that at the rest of the Site. It is also apparent from these Figures, as well as the field gamma results, that the contamination extends offsite to the north.

5 Findings

The findings of the subsurface gamma investigation are as follows:

- Down-hole gamma survey measurements were collected from a total of 215 borings. Down-hole gamma readings ranged from <1,000 cpm to over 230,000 cpm (E-12 at 5 ft-bgs). For down-hole readings, the preliminary (pre-field work) estimate suggested that gamma readings above 3,500 cpm represented potential indications of radiological impacts. The subsurface gamma results collected during this investigation indicated elevated gamma readings in the areas identified by the surface gamma survey.
- The most notable difference between the surface and subsurface screening results was in the vicinity of the tennis courts where the asphalt paving apparently shielded the radiologically-impacted soil in the subsurface.

- Another exception was the grass covered area north of the baseball field and south of the berms along East 26th Street. In this case, the surface survey showed slightly elevated readings near the berms, but the down-hole and laboratory results did not indicate the presence of elevated radiological impacts in berms, the near surface soil (0-2 ft-bgs) or the subsurface soil. It should be noted that the surface gamma survey results were reviewed conservatively (i.e., relative to the field gamma background value for paved surfaces) because it was difficult to present multiple background values for different surfaces (paved and unpaved) on the same drawing.
- The majority of the borings advanced were able to map the contacts between native soils and overlying fill soil. In general, native sand was encountered at a depth of 4-6 ft-bgs except where former building foundations were present and it was present at a slightly deeper depth. An exception to this was in the vicinity of the tennis courts where native sand was not encountered within the first 12 ft. However, in the tennis court area the elevated gamma readings did not extend more than 4-5 ft-bgs.
- The borings and associated down-hole measurements were able to delineate elevated gamma readings vertically with two exceptions. At borings A-8 and B-8 the elevated gamma readings appeared to extend into an iron-stained sand. This iron-stained sand appeared to be similar in grain size to the native sand encountered at other borings. It was not apparent whether the staining occurred in-place or was the result of the placement of impacted soil in a former excavation (i.e., an area potentially disturbed during utility work).
- Horizontal delineation of the elevated gamma readings was completed at the Site to the east, south and west. However, the down-hole gamma results indicate that radiologically-impacted material extends into the City ROW north of East 26th Street.
- The down-hole gamma results indicate, which was also confirmed by the laboratory data, that radiological impacts appear generally to be restricted to the fill soil at the Site. Specifically, the majority of the radiologically-impacted fill appears restricted to the upper 5-feet, with the highest gamma readings occurring between 2-3 ft-bgs in most borings. The most notable exception to this is along the northern portion (i.e., property boundary) where elevated readings extend greater than 12 ft-bgs (i.e., in the vicinity of borings A-8 and B-8). These readings are located within and near East 26th Street where potentially excavations for utilities (mixing of soil) may have extended the radiological contamination deeper or there may be some potential for vertical downward migration.

The Carnotite Reduction Company likely used uranium ore (called carnotite) as the raw material from which to concentrate radium. As a result, the contaminants include radionuclides for both radium as well as uranium. Thresholds for these radionuclides are based on the specified activities above background. Therefore, the established thresholds are site-specific values determined and/or approved by the regulatory agency (state or federal) providing oversight for this work.

- As indicated previously, the Site field gamma threshold for impacted material was based on a combination of Streeterville calibration standards (soil drums in West Chicago) and site-specific field information. Streeterville contamination is predominantly a single radionuclide (i.e., radium). Thus, there is good correlation between field gamma counts and radium activities. In contrast, the Site involves both radium and uranium, which somewhat vary independently across the Site. Although there is reasonably good correlation between the gamma counts and the analytical results, field gamma readings should be used with some caution because there may be a potential for appreciable uranium without the presence of radium. This has not been the case, however with the 58 samples which were collected and analyzed. Specifically, the samples that had appreciable uranium activities also had sufficient radium activities and were identified by the down-hole gamma response as impacted. Of the 58 samples, there were only two instances where the activity of radium was below 5 pCi/g combined with a uranium activity of greater than

20 pCi/g. In these two cases the activity of uranium was significant (i.e., >2,900 pCi/g) and had a corresponding gamma reading well above the field instrumentation threshold of 3,500 cpm.

- For the 58 samples analyzed at the laboratory using gamma spectroscopy, the activities ranged from non-detect (ND) to 3,670 pCi/g for total uranium and from 0.85 to 1,181 pCi/g for total radium. It is apparent from review of the data that the activities of uranium and radium vary independently across the Site. This is an indication that the impacted materials represent a range of potentially raw and byproduct materials from the former operations. Specifically, in few instances (i.e., in the vicinity of borings A-8 and B-8) the activity is predominantly uranium, while in others (i.e., H-12) the activity is dominated by radium. This complicates the use of gamma field instrumentation. Specifically, radium produces more gamma radiation than uranium at the same activity. As such, a small amount of radium will produce significantly higher gamma readings than a much greater amount of uranium. Knowing this was potentially the case a conservative field instrumentation gamma threshold (3,500 cpm) was used for the delineation work.
- Table 2 in the report presented a summary of the field gamma measurements and the laboratory gamma spectroscopy results. A review of the results indicates that of the 58 samples, 22 have total radium activities and 16 have total uranium activities that could meet or exceed a threshold value and be considered as impacted fill soils. If the analytical data are reviewed on a combined basis, 25 of the samples contained activities that would likely meet or exceed such as value to be considered as impacted. Based on the field gamma readings, 38 samples exceeded the field gamma threshold 3,500 cpm, which was used to identify potentially impacted soil. It is important to note that no samples were identified by the laboratory as impacted that were not already identified as being potentially impacted by the field gamma survey. Thus, although apparently slightly conservative, the down-hole field gamma threshold value of 3,500 cpm appears to be adequately conservative to estimate the distribution of potentially impacted soil at the Site. Therefore, the delineation information depicted in this report appears to adequately estimate the horizontal and vertical extent of the radiologically-impacted soil fill on this Site.

Table1: Down-hole Gamma Survey Results

TABLE 1
Down-hole Gamma Survey Results
Carnotite Reduction Company

Easting	Northing	Location	Date	Comments	Revised Easting	Revised Northing	Sample Depth (ft)		Depth to Native (ft)	One-Minute Gamma Count (ft-BGS)														
							1st	2nd		1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	Maximum	
1179425.15	1887189.85	A-1	***																				0	
1179445.32	1887189.85	A-2	***																				0	
1179465.15	1887189.96	A-3	***																				0	
1179485.21	1887190.08	A-4	4/22/2011				-	-	5	1,467	1,203	984	829	698	771	768	684						1,467	
1179505.27	1887189.85	A-5	4/22/2011				-	-	6	1,384	1,288	874	834	717	709	689	745						1,384	
1179525.10	1887190.08	A-6	4/22/2011				2	5	5	4,446	8,230	6,643	3,359	6,669	1,571	1,560	1,321	1,184	820	889	691		8,230	
1179544.71	1887190.08	A-7	4/22/2011				3	-	6	4,955	7,134	7,294	4,149	3,095	2,429	2,592	2,177	2,221	1,477	713	629		7,294	
1179565.10	1887189.85	A-8	4/22/2011				5S	10	>12	2,787	9,516	7,085	8,108	10,235	7,081	6,808	11,058	37,050	48,358	48,076	25,033		48,358	
1179585.38	1887189.85	A-9	4/22/2011					2	-	6	2,543	10,769	6,238	2,357	2,093	2,114	2,052	1,865					10,769	
1179605.67	1887190.08	A-10	4/22/2011					2	-	6	3,895	18,097	7,216	1,512	934	912	900	929					18,097	
1179624.93	1887189.96	A-11	4/22/2011					2	-	6	2,196	7,402	5,998	1,575	1,058	1,012	939	936					7,402	
1179644.77	1887190.08	A-12	4/22/2011					2	-	6	4,947	17,883	5,080	2,143	1,190	926	898	969					17,883	
1179665.50	1887189.96	A-13	4/22/2011				4N	3	-	6	1,681	1,470	2,858	827	757	826	835	743	825	721	624	637	2,858	
1179685.33	1887189.96	A-14	5/2/2011		5E	2S		2	-	5	831	2,302	1,371	686	624	693	777	670					2,302	
1179425.15	1887170.02	B-1	5/2/2011					-	-	4	449	884	783	696	973	911	858	712					973	
1179445.10	1887170.02	B-2	***																				0	
1179465.15	1887170.02	B-3	***																				0	
1179485.21	1887170.13	B-4	4/22/2011					2	-	8	657	1,916	1,301	834	743	771	911	832	655	632	627	648	1,916	
1179504.82	1887169.91	B-5	4/22/2011					2	-	5	1,039	2,454	1,867	812	840	874	822	792					2,454	
1179525.10	1887170.02	B-6	4/22/2011					3	-	5	1,267	7,333	26,812	13,973	2,216	1,720	1,539	1,466					26,812	
1179545.38	1887170.02	B-7	4/22/2011					-	-	5	1,635	11,146	9,914	2,689	2,180	2,351	2,048	2,015					11,146	
1179564.88	1887170.02	B-8	4/25/2011	Refusal at 8	5W			3	11	>12	6,274	47,984	118,817	95,449	60,061	79,865	113,041	52,543	33,159	14,059	42,064	4,360	118,817	
1179584.93	1887170.02	B-9	4/25/2011					4	7	9	1,338	10,870	13,193	23,730	40,510	39,237	60,685	56,196	31,435	8,004	1,319	740	60,685	
1179604.88	1887170.02	B-10	4/25/2011					-	-	9	673	1,703	1,595	1,763	2,589	4,894	1,645	1,272	911	718	706	649	4,894	
1179625.27	1887170.02	B-11	4/25/2011					2	-	5	23,904	168,112	30,308	7,498	2,657	1,794	1,509	1,408					168,112	
1179645.10	1887170.13	B-12	4/25/2011			5N		2	-	5	1,218	10,462	5,551	1,774	1,582	1,452	1,386	1,378					10,462	
1179665.05	1887170.02	B-13	4/28/2011					-	-	5	553	4,241	2,743	3,839	2,045	809	695	709					4,241	
1179685.22	1887170.02	B-14	5/2/2011					3	-	8	715	2,014	2,053	1,777	669	568	487	577	638	700	646	610	2,053	
1179424.93	1887149.85	C-1	***																				0	
1179444.87	1887149.96	C-2	5/2/2011					-	-	4	463	744	642	621	661	648	740	649					744	
1179465.15	1887149.96	C-3	***																				0	
1179485.21	1887149.96	C-4	4/25/2011					-	-	5	639	1,867	1,504	1,294	1,136	803	779	757					1,867	
1179505.16	1887149.96	C-5	4/25/2011					-	-	5	615	1,812	840	614	787	831	907	717					1,812	
1179525.21	1887150.19	C-6	4/25/2011					-	-	5	1,193	11,394	10,279	5,842	3,417	3,225	2,303	1,844					11,394	
1179545.27	1887149.96	C-7	4/25/2011			5N		3	-	8	1,380	16,737	15,883	6,756	6,758	3,427	2,722	2,326	1,165	982	614	669	16,737	
1179564.99	1887149.85	C-8	4/25/2011					2	-	8	1,388	8,662	7,492	3,586	2,477	2,820	2,453	1,817	957	728	681	607	8,662	
1179584.93	1887149.96	C-9	4/21/2011					-	-	6	7,671	6,485	13,821	11,969	5,382	2,142	1,796	1,525	1,038	680	626	584	13,821	
1179605.10	1887150.19	C-10	4/20/2011	Refusal @ 6		4N		5	7	4	1,372	13,296	13,471	14,275	17,628	17,481	13,963	12,949	5,723	1,984	2,942	1,939	17,628	
1179625.05	1887149.96	C-11	4/20/2011					2	-	5	4,305	7,560	3,328	1,231	844	837	755	831	696	642	664	577	7,560	
1179645.22	1887150.07	C-12	4/18/2011					2	3	9	1,244	5,768	3,790	2,075	1,208	1,091	882	1,154	782	679	664	575	5,768	
1179664.94	1887149.85	C-13	4/18/2011					2	-	5	864	4,145	1,693	900	824	718	695	703	690	680	686	587	4,145	
1179685.22	1887149.85	C-14	4/18/2011					2	-	4	1,260	1,803	719	633	661	699	689	729	656	607	666	545	1,803	
1179424.93	1887130.02	D-1	***																				0	
1179445.32	1887129.79	D-2	***																				0	
1179465.15	1887130.02	D-3	4/25/2011					-	-	4	950	1,222	669	625	723	671	801	647					1,222	
1179485.21	1887129.79	D-4	4/25/2011					2	-	4	1,711	2,224	957	764	702	708	721	674					2,224	
1179505.16	1887130.02	D-5	4/25/2011					2	-	5	4,356	12,217	1,738	972	824	845	946	773					12,217	
1179525.33	1887130.02	D-6	4/25/2011					2	-	5	4,742	22,346	11,713	2,223	1,479	1,504	1,516	1,152					22,346	
1179544.93	1887130.02	D-7	4/25/2011					1	-	5	86,279	63,037	9,292	1,883	1,490	1,486	1,454	1,288					86,279	
1179564.88	1887130.02	D-8	4/21/2011	Refusal @ 2	6S	5W		2	-	8	5,449	13,036	3,620	2,500	2,281	2,269	2,091	1,293	619	623	596	551	13,036	
1179585.05	1887130.02	D-9	4/21/2011					2	-	4.5	6,539	24,665	7,942	4,580	2,106	1,790	1,860	1,252	658	691	657	519	24,665	
1179604.76	1887130.13	D-10	4/18/2011			4E		2	5	7	9,515	21,547	14,572	13,336	16,461	12,476	6,754	5,591	5,509	2,391	757	661	21,547	
1179624.71	1887130.13	D-11	4/18/2011					2	8	7	9,200	17,725	16,671	10,540	9,638	5,273	5,700	7,008	2,831	1,172	694	589	17,725	
1179644.77	1887130.13	D-12	4/18/2011					2	-	4	833	2,878	1,552	1,330	1,365	1,463	1,532	1,581	1,211	691	702	626	2,878	
1179665.16	1887130.02	D-13	4/18/2011					2	-	4	903	1,888	751	709	664	690	689	682	695	682	667	683	586	1,888
1179684.88	1887130.13	D-14	4/18/2011					-	-	5	597	1,487	746	604	658	727	722	684	686	667	630	592	1,487	
1179425.72	1887109.96	E-1	***																				0	
1179445.10	1887110.07	E-2	***																				0	

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TABLE 1
Down-hole Gamma Survey Results
Carnotite Reduction Company

Easting	Northing	Location	Date	Comments	Revised Easting	Revised Northing	Sample Depth (ft bgs)		Depth to Native (ft)	One-Minute Gamma Count (ft-BGS)													
							1st	2nd		1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	Maximum
1179465.15	1887110.07	E-3#	4/26/2011	Hill Ele. +1			2	-	5	1,783	2,330	1,046	653	672	657	777							2,330
1179485.44	1887109.96	E-4#	4/26/2011	Hill Ele. +1			2	-	4.5	2,430	3,247	2,165	2,020	973	787	764							3,247
1179505.04	1887109.96	E-5#	4/26/2011	Hill Ele. +2			1	-	6	5,648	3,632	1,741	1,058	782	705	746	633	567	542				5,648
1179524.99	1887109.85	E-6#	4/26/2011	Hill Ele. +1, no recov @ 5			-	-	7	1,278	1,281	6,303	8,507	3,100	1,251	1,198	1,036	802	540	546			8,507
1179545.16	1887109.85	E-7	4/26/2011		5W		2	-	4.5	2,716	3,882	2,648	1,331	1,252	1,237	1,454	1,103						3,882
1179565.10	1887110.19	E-8	4/20/2011				1	-	4	3,466	1,970	1,599	1,743	1,773	1,770	1,492	1,236	1,059	774	592	587		3,466
1179585.38	1887110.19	E-9	4/20/2011				1	-	4	2,685	2,026	1,111	1,001	969	1,109	935	732	603	628	668	634		2,685
1179605.22	1887109.96	E-10	4/20/2011				1	-	4	18,089	5,215	4,159	3,792	2,996	2,474	1,820	1,385	942	885	643	618		18,089
1179624.93	1887109.96	E-11	4/18/2011				1	-	5	19,866	11,873	3,068	2,002	1,787	1,652	1,420	1,371	962	683	599	639		19,866
1179645.78	1887109.96	E-12	4/18/2011				2	5	7	1,857	5,345	4,672	23,961	230,957	59,050	18,570	6,790	1,578	4,690	782	632		230,957
1179665.05	1887109.85	E-13	4/19/2011				-	-	5	845	1,518	751	672	704	730	750	733	699	723	677	537		1,518
1179685.22	1887109.85	E-14	4/19/2011				-	-	5	1,675	1,941	850	608	736	711	698	652	634	657	636	554		1,941
1179425.04	1887089.90	F-1	***																				0
1179444.87	1887090.02	F-2	***																				0
1179465.49	1887090.13	F-3#	4/26/2011	Hill Ele. +1			-	-	5.5	1,349	1,124	907	1,018	2,209	832	759							2,209
1179485.10	1887090.02	F-4#	4/26/2011	Hill Ele. +2, Refusal at 5			3	-	4.5	1,316	1,023	2,246	2,141	971	1,015								2,246
1179505.04	1887090.13	F-5#	4/26/2011	Hill Ele. +4			3	-	6	751	964	2,454	2,846	1,255	1,002	912	731						2,846
1179524.65	1887090.02	F-6#	4/28/2011	Hill Ele. +8			3	-	3.5	3,818	1,700	4,412	3,424	3,235	3,758	893	551						4,412
1179544.82	1887089.90	F-7#	4/26/2011	Hill Ele. +1			-	-	7	893	1,390	1,620	1,508	1,453	1,292	1,099	1,061	872	673	592			1,620
1179565.10	1887090.13	F-8	4/21/2011				2	-	6	21457	51,705	13,847	9,127	5,711	3,156	2,514	1,619	704	595	618	601		51,705
1179585.27	1887089.90	F-9	4/20/2011				1	-	4	34,992	6,160	1,303	926	927	980	953	718	640	735	621	588		34,992
1179605.10	1887089.90	F-10	4/20/2011				2	-	4	3,420	4,611	1,235	982	976	1,104	1,037	904	669	617	620	577		4,611
1179624.60	1887090.02	F-11	4/18/2011		5W	4N	1	-	5	8,344	7,128	2,772	2,174	2,098	2,063	1,781	1,629	964	646	642	657		8,344
1179645.10	1887089.90	F-12	4/18/2011				2	-	4	815	2,165	1,754	1,648	1,849	1,890	1,855	1,249	740	715	621	554		2,165
1179664.94	1887090.13	F-13	4/18/2011				-	-	5	760	1,481	937	1,013	1,128	1,130	1,157	1,111	849	663	636	561		1,481
1179685.11	1887089.90	F-14	***																				0
1179731.73	1887075.71	F.8-16.2	***																				0
1179424.93	1887069.96	G-1	***																				0
1179445.10	1887069.85	G-2	***																				0
1179465.04	1887069.85	G-3	***																				0
1179484.99	1887070.07	G-4	4/26/2011				1	-	4	1,426	1,036	1,225	1,091	1,013	876	607	573						1,426
1179504.82	1887070.07	G-5#	4/26/2011	Hill Ele. +1			-	-	7.5	1,453	1,118	1,042	1,192	1,385	1,280	1,497	1,137	693	567	578			1,497
1179524.76	1887069.73	G-6#	4/28/2011	Hill Ele. +6			1	-	6	2,544	1,548	1,342	849	1,479	883	594	574	517	560				2,544
1179544.93	1887069.96	G-7#	4/28/2011	Hill Ele. +6			1	-	5	1,813	1,470	1,348	1,644	1,329	909	658	499	474	510				1,813
1179565.21	1887070.18	G-8	4/21/2011				2	3	7	9,957	36,743	11,605	3,669	2,057	1,603	1,692	1,353	623	589	564	562		36,743
1179585.05	1887070.07	G-9	4/20/2011		4E		1	-	5	27,914	13,972	1,565	848	833	887	892	717	587	633	612	591		27,914
1179605.33	1887069.96	G-10	4/20/2011				1	-	5	4,500	3,774	1,050	748	742	740	673	773	717	603	636	593		4,500
1179625.16	1887069.96	G-11	4/18/2011				1	2	5	9,400	4,915	2,263	1,604	1,559	1,429	1,509	1,265	761	695	582	518		9,400
1179644.88	1887069.96	G-12	4/18/2011				2	-	5	36,587	182,113	32,380	11,614	5,908	3,714	3,137	2,642	1,243	749	625	557		182,113
1179665.05	1887069.85	G-13	4/18/2011				-	-	5	961	1,550	885	987	1,135	1,128	1,151	945	755	663	646	541		1,550
1179685.11	1887070.18	G-14	5/2/2011				1	-	5	1,636	2,251	955	896	926	1,082	954	726						2,251
1179713.82	1887067.24	G-15.5	***																				0
1179739.96	1887057.44	G.6-16.8	5/2/2011	Loading Dock Ele. -3			5	-	9				874	1,098	1,025	738	664	658	671	595			1,098
1179425.04	1887050.01	H-1	***																				0
1179444.98	1887050.13	H-2	5/2/2011				-	-	5	1,251	1,034	590	508	549	571	577	553						1,251
1179464.82	1887050.01	H-3	***																				0
1179484.99	1887050.01	H-4	4/26/2011				2	-	5	1,148	1,212	710	594	640	656	489	486						1,212
1179504.93	1887050.13	H-5	4/26/2011				3	-	5	1,330	1,133	2,453	1,106	905	775	531	534						2,453
1179524.76	1887050.01	H-6	4/26/2011				3	-	5	1,138	1,061	3,091	1,923	1,023	805	703	615						3,091
1179544.71	1887049.90	H-7#	4/28/2011	Hill Ele. +6			+5	2	3	1,244	2,431	1,257	844	717	584								2,431
1179565.10	1887050.13	H-8	4/28/2011				-	-	5	1,201	1,082	1,079	1,544	1,058	931	1,051	1,010						1,544
1179585.16	1887050.01	H-9	4/21/2011		5W		2	-	5	16,791	25,220	21,611	19,142	4,192	2,808	2,518	1,350	596	581	608	578		25,220
1179604.99	1887050.35	H-10	4/20/2011				1	2	5	43,887	27,229	4,217	1,608	1,328	1,119	869	618	601	642	716	557		43,887
1179625.38	1887050.24	H-11	4/15/2011				2	3	4	4,237	48,180	8,250	2,279	1,684	1,514	1,505	1,219	843	591	563	542		48,180
1179644.88	1887049.90	H-12	4/19/2011				2	4	5	5,431	9,414	62,136	94,946	9,555	4,627	3,385	2,476	1,267	709	623	647		94,946
1179664.94	1887050.24	H-13	4/18/2011				3	-	5	1,254	2,416	2,429	1,673	1,134	1,146	1,055	834	690	688	596	605		2,429

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TABLE 1
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Carnotite Reduction Company

Easting	Northing	Location	Date	Comments	Revised Easting	Revised Northing	Sample Depth (ft)		Depth to Native (ft)	One-Minute Gamma Count (ft-BGS)													
							1st	2nd		1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	Maximum
1179684.88	1887050.01	H-14	4/20/2011				-	-	7	1,136	1,306	995	1,014	1,024	927	870	768	706	822	805	731		1,306
1179705.39	1887050.01	H-15	4/20/2011				-	-	9	885	934	929	977	359	263	299	347	433	534	550	592		977
1179722.17	1887049.33	H-15.9	5/2/2011	Loading Dock Ele. -1			-	-	9		507	1,168	1,309	1,204	1,347	1,446	2,000	2,023	2,436	1,341	680	489	2,436
1179425.04	1887030.07	I-1	***																				0
1179445.32	1887029.96	I-2	***																				0
1179465.15	1887030.07	I-3	***																				0
1179484.99	1887029.96	I-4	***																				0
1179504.93	1887029.96	I-5	***																				0
1179525.33	1887030.07	I-6	***																				0
1179545.16	1887030.07	I-7#	4/29/2011	Hill Ele. +2			4	-	>10	1,437	2,005	1,879	1,595	1,360	907	967	646	509	518			2,005	
1179564.88	1887029.85	I-8#	4/29/2011	Hill Ele. +3			+2	-	5	975	1,011	1,087	824	781	723	680	537	551				1,087	
1179585.16	1887029.96	I-9	4/21/2011				1	-	5	8,840	3,915	1,909	1,000	870	964	989	772	538	522	569	506	8,840	
1179604.76	1887030.07	I-10	4/15/2011		6E	5N	2	-	4	2,236	2,737	1,049	840	608	610	727	565	510	536	517	529	2,737	
1179625.38	1887029.96	I-11	4/15/2011				2	3	5	5,011	23,922	10,233	2,816	1,382	1,098	1,030	924	555	519	514	549	23,922	
1179645.44	1887030.18	I-12	4/19/2011				3	-	5	1,699	3,811	17,668	5,392	1,809	1,169	1,072	1,122	798	563	639	554	17,668	
1179665.16	1887029.85	I-13	4/19/2011				1	-	6	6,448	5,612	6,231	4,625	4,248	3,169	1,643	1,122	681	608	611	642	6,448	
1179684.88	1887029.85	I-14	4/20/2011				-	-	7	434	437	473	409	497	716	755	596	638	702	661	587	755	
1179704.94	1887029.96	I-15	4/20/2011				1	-	4	12,489	2,169	845	748	746	778	688	640	609	617	620	563	12,489	
1179424.70	1887010.13	J-1	***																				0
1179444.87	1887009.79	J-2	***																				0
1179465.27	1887010.13	J-3	***																				0
1179484.99	1887010.01	J-4	4/29/2011				-	-	8	1,014	1,278	1,161	1,116	881	748	499	504	518	629	631	602	1,278	
1179504.82	1887010.13	J-5	***																				0
1179524.65	1887009.79	J-6	***																				0
1179545.49	1887010.01	J-7	***																				0
1179564.88	1887010.13	J-8	4/29/2011				-	-	8	1,374	1,047	1,285	1,562	1,744	1,615	1,645	1,241	535	479	485	605	1,744	
1179585.16	1887010.13	J-9	4/29/2011				2	-	9	1,310	1,458	1,290	1,327	1,331	1,042	607	591	471	488	486	591	1,458	
1179604.88	1887010.01	J-10	4/21/2011		5W		1	-	6	2,746	1,931	1,366	910	963	712	715	623	602	554	518	536	2,746	
1179624.93	1887010.01	J-11	4/15/2011				2	-	5	1,118	4,153	1,941	1,284	553	581	712	611	628	571	553	589	4,153	
1179645.33	1887010.13	J-12	4/15/2011				2	-	5	2,519	3,901	1,089	718	594	707	801	652	507	496	502	488	3,901	
1179665.16	1887010.13	J-13	4/19/2011		6W		2	3	6	2,794	6,283	4,184	1,328	951	871	965	863	709	604	628	663	6,283	
1179685.11	1887009.90	J-14	4/19/2011	tank backfill	7W		-	-	9	423	407	418	452	466	504	496	473	580	613	641	628	641	
1179704.94	1887009.90	J-15	4/19/2011				2	9	6	3,313	12,826	3,255	1,680	1,259	1,073	1,121	1,406	4,003	1,707	696	685	12,826	
1179724.43	1887009.90	J-16	4/19/2011			7N	-	-	6	688	1,031	893	1,095	1,316	1,151	1,164	1,226	814	659	774	549	1,316	
1179425.04	1886989.84	K-1	***																				0
1179445.10	1886989.96	K-2	***																				0
1179465.27	1886990.07	K-3	***																				0
1179485.44	1886989.96	K-4	***																				0
1179505.27	1886989.96	K-5	***																				0
1179525.21	1886990.07	K-6	***																				0
1179545.38	1886989.96	K-7	***																				0
1179565.21	1886990.07	K-8	***																				0
1179585.16	1886990.07	K-9	***																				0
1179605.22	1886990.07	K-10	4/21/2011				-	-	6	802	1,067	777	615	563	609	714	612	544	559	528	535	1,067	
1179624.82	1886989.84	K-11	4/15/2011		5E	-	-	-	5	690	1,124	1,036	763	769	801	724	574	552	627	623	493	1,124	
1179645.44	1886989.84	K-12	4/15/2011				2	3	5	1,445	3,643	1,986	1,333	839	758	672	621	605	544	521	600	3,643	
1179665.27	1886989.96	K-13	4/15/2011				2	-	5	1,242	4,128	2,295	1,593	864	740	739	691	624	576	530	500	4,128	
1179685.33	1886990.07	K-14	4/19/2011				2	-	8	4,545	11,341	3,461	1,888	1,054	861	940	816	725	699	593	618	11,341	
1179705.05	1886989.73	K-15	4/19/2011				3	-	6	1,765	3,101	4,425	1,373	795	774	722	919	783	643	662	693	4,425	
1179724.88	1886989.96	K-16	4/19/2011				2	-	5	2,692	6,060	4,571	1,525	840	899	863	913	900	697	684	635	6,060	
1179744.43	1886986.91	K.1-17	4/19/2011				-	-	5.5	901	1,450	1,240	703	601	649	754	814	797	672	679	664	1,450	
1179765.00	1886986.78	K.1-18	4/19/2011				-	-	6	796	1,294	1,164	1,217	583	621	629	647	736	698	668	644	1,294	
1179784.84	1886986.91	K.1-19	***																				0
1179805.41	1886986.91	K.1-20	5/2/2011				-	-	5	950	1,031	1,016	665	641	693	652	733					1,031	
1179825.13	1886986.91	K.1-21	***																				0
1179845.09	1886987.03	K.1-22	5/2/2011				-	-	5	771	1,051	732	612	577	617	599	653					1,051	
1179865.42	1886987.27	K.1-23	***																				0
1179885.38	1886986.91	K.1-24	5/2/2011				-	-	5.5	999	1,254	988	657	586	606	694	657					1,254	
1179424.81	1886970.01	L-1	***																				0
1179445.21	1886969.90	L-2	5/2/2011				-	-	5	860	926	933	801	813	707	633	583	634	631	506	507	933	

Notes: - measurement above 3500 cpm (estimated to be about equivalent to 7.2 pCi/g base on Streeterville material)
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Easting	Northing	Location	Date	Comments	Revised Easting	Revised Northing	Sample Depth (ft bgs)		Depth to Native (ft)	One-Minute Gamma Count (ft-BGS)														
							1st	2nd		1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	Maximum	
1179465.49	1886970.13	L-3	***																					0
1179485.21	1886970.13	L-4	***																					0
1179505.27	1886969.90	L-5	***																					0
1179525.21	1886970.13	L-6	***																					0
1179545.04	1886970.01	L-7	***																					0
1179565.21	1886970.01	L-8	***																					0
1179584.82	1886969.90	L-9	***																					0
1179604.99	1886969.90	L-10	***																					0
1179625.27	1886969.90	L-11	5/2/2011				-	-	5	807	1,298	1,080	829	593	705	718	607							1,298
1179645.33	1886969.90	L-12	4/15/2011				-	-	5.5	741	1,453	1,395	1,380	1,321	774	772	725	713	607	520	551			1,453
1179665.27	1886970.01	L-13	4/15/2011				2	-	5	846	6,327	1,689	903	656	735	817	828	760	536	491	578			6,327
1179685.33	1886970.01	L-14	4/15/2011		3E	5N	2	-	6	1,611	1,959	641	548	590	912	774	792	578	655	638	652			1,959
1179705.27	1886969.90	L-15	4/15/2011				3	-	6	864	2,477	2,866	2,618	2,015	1,468	1,027	806	722	612	644	651			2,866
1179725.56	1886970.01	L-16	4/14/2011				2	-	4	3,359	14,791	2,821	1,567	1,321	1,315	1,222	1,249	1,266	912	679	682			14,791
1179744.71	1886970.01	L-17	4/13/2011				2	-	7	1,877	8,373	2,074	1,092	1,060	1,013	1,001	1,396	841	1,092	665	628	645		8,373
1179765.33	1886969.90	L-18	4/13/2011				2	4	4	1,005	2,280	1,913	1,036	822	890	856	937	805	630	652	690			2,280
1179785.28	1886969.90	L-19	4/13/2011				2	-	6	832	1,329	815	759	657	656	697	778	726	692	633	616			1,329
1179805.45	1886970.13	L-20	4/13/2011				2	-	6	504	925	628	622	794	740	793	789	686	579	584	568			925
1179825.28	1886970.01	L-21	4/13/2011				2	-	7	540	805	546	526	450	480	662	765	717	673	606	660			805
1179845.34	1886970.01	L-22	4/13/2011				2	-	7	490	833	613	530	508	470	604	694	705	617	598	653			833
1179865.05	1886970.13	L-23	4/13/2011		5W	5N	-	-	6	518	761	576	505	463	421	636	710	675	596	653	573			761
1179885.34	1886970.01	L-24	4/12/2011	refusal at 8			-	-	8	459	652	750	641	549	498	620	703	771	632	554	616			771
1179905.17	1886970.13	L-25	4/12/2011				3	8	5	417	441	880	623	546	598	699	730	726	624	638	601			880
1179925.23	1886970.01	L-26	4/12/2011	refusal at 8			2	9	10	434	842	652	696	673	796	688	692	743	711	599	661			842
1179945.28	1886969.79	L-27	4/11/2011	refusal at 8			-	-	8	453	930	1,116	1,154	1,037	919	699	609	726	544					1,154
1179585.16	1886950.07	M-9	***																					0
1179605.22	1886950.07	M-10	***																					0
1179625.27	1886950.18	M-11	***																					0
1179645.44	1886949.96	M-12	4/28/2011				2	-	5	874	1,547	915	864	622	624	711	631							1,547
1179665.39	1886950.07	M-13	4/28/2011			5N	-	-	4.5	584	1,149	1,030	917	889	934	676	571							1,149
1179684.88	1886950.07	M-14	4/15/2011				3	-	5	762	2,772	5,732	2,228	1,390	1,185	989	674	699	670	606	659			5,732
1179705.27	1886949.96	M-15	4/15/2011				2	3	5	1,022	5,054	4,090	3,554	2,419	1,854	1,022	854	676	762	651	653			5,054
1179725.33	1886949.96	M-16	4/14/2011				2	-	4	4,231	10,117	3,584	2,105	1,699	1,457	1,333	1,191	692	613	665	700			10,117
1179744.94	1886950.18	M-17	4/13/2011		3W		2	-	5	895	2,649	1,044	767	779	851	866	821	797	657	641	608			2,649
1179765.45	1886949.96	M-18	4/13/2011				2	6	5	1,127	5,109	1,567	775	798	803	787	835	867	674	598	647			5,109
1179785.28	1886950.07	M-19	4/13/2011				2	3	5	995	3,485	2,475	1,244	824	819	791	827	916	671	650	621			3,485
1179805.11	1886949.96	M-20	4/13/2011				2	3	5	960	4,102	1,181	670	698	661	749	747	762	664	605	606			4,102
1179825.05	1886950.07	M-21	4/13/2011				2	-	5	880	1,996	860	620	683	587	667	708	685	649	580	521			1,996
1179844.77	1886949.96	M-22	4/13/2011				2	3	5	788	2,956	858	583	634	648	609	696	680	691	576	572			2,956
1179864.94	1886950.07	M-23	4/13/2011				2	5	8	901	1,437	1,016	1,143	1,876	1,410	777	652	671	627	637	591			1,876
1179885.11	1886949.96	M-24	4/13/2011				2	-	5	961	1,833	665	563	587	668	640	706	718	647	634	578			1,833
1179905.28	1886949.84	M-25	4/12/2011				2	6	7	956	998	654	663	756	948	1,071	635	752	657	687	650			1,071
1179925.00	1886950.07	M-26	4/12/2011	refusal at 8			-	-	9	705	709	744	740	750	699	663	638	698	637	621	642			750
1179945.17	1886949.96	M-27	4/12/2011				-	-	11	540	642	495	504	459	462	433	440	532	482	616	575			642
1179584.71	1886930.01	N-9	4/29/2011				-	-	9	1,033	925	712	966	1,337	1,529	1,216	648	571	531	567	595			1,529
1179605.67	1886930.01	N-10	***																					0
1179625.84	1886930.01	N-11	***																					0
1179646.46	1886930.24	N-12	***																					0
1179665.84	1886930.01	N-13	4/29/2011	Refusal at 5 twice		6S	-	-	5	1,216	1,139	748	631	634	549	541	507							1,216
1179685.33	1886930.01	N-14	4/28/2011				1	-	7	1,481	1,106	882	658	766	829	627	554	527	603	672	684			1,481
1179705.16	1886929.90	N-15	4/28/2011	Refusal at 8 three times	2W	2N	-	-	>8	1,020	1,576	1,343	1,012	753	661	622	537							1,576
1179725.90	1886930.01	N-16	4/27/2011				3	-	6	2,482	4,980	20,527	4,281	2,335	1,731	1,738	1,671							20,527
1179744.83	1886929.90	N-17	4/27/2011			5W	2	-	4	3,760	5,976	4,108	1,710	1,704	1,966	1,807	1,593							5,976
1179765.56	1886930.12	N-18	4/27/2011				2	-	7	7,564	7,600	1,846	772	508	502	728	754	689	865	600	609			7,600
1179785.50	1886930.12	N-19	4/27/2011				1	-	5.5	12,512	7,924	7,785	2,004	1,465	1,043	956	1,044							12,512
1179805.90	1886930.12	N-20	4/27/2011				1	-	8	5,251	4,784	2,833	1,924	1,013	885	840	766	595	603	549	710			5,251
1179825.28	1886929.79	N-21	4/27/2011				3	-	8	2,735	5,355	10,718	2,524	1,003	994	850	671	662	604	533	574			10,718
1179845.90	1886930.12	N-22	4/27/2011				1	-	9	21,582	5,496	4,119	1,145	881	872	826	875	894	630	598	610			21,582
1179866.07	1886929.79	N-23	4/27/2011				1	-	8	14,622	6,039	2,325	1,184	1,118	925	826	847	821	616	612	605			14,622

Notes: - measurement above 3500 cpm (estimated to be about equivalent to 7.2 pCi/g base on Streeterville material)
 - measurement collected from native sand
*** - boring skipped because apparently clean boundary has been delineated
- depths adjusted based on estimated hill elevation (above grade reading listed below), 25-ft cord used

TABLE 1
Down-hole Gamma Survey Results
Carnotite Reduction Company

Easting	Northing	Location	Date	Comments	Revised Easting	Revised Northing	Sample Depth (ft bgs)		Depth to Native (ft)	One-Minute Gamma Count (ft-BGS)																
							1st	2nd		1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	Maximum			
							1179885.79	1886930.12		N-24	4/27/2011				1	-	5.5	12,139	3,790	2,286	1,614	815	722	719	834	
1179905.51	1886930.24	N-25	4/27/2011				1	-	6	11,236	6,343	3,098	695	522	629	781	737									11,236
1179925.00	1886930.01	N-26	4/27/2011				2	-	9	3,822	6,427	1,540	990	943	805	756	702	705	673	667	686					6,427
1179944.49	1886930.01	N-27	4/12/2011	refusal at 9			1	3	>10	1,740	1,011	1,235	1,053	923	1,044	877	701									1,740
1179704.94	1886909.95	O-15	4/14/2011				-	-	5	888	957	663	661	606	641	622	624	610	530	668	626					957
1179724.77	1886909.95	O-16	4/14/2011				2	-	7	766	1,878	1,735	1,175	901	685	557	546	582	503	512	579					1,878
1179745.05	1886909.84	O-17	4/14/2011		7E	4S	1	2	8	2,526	3,744	1,356	810	771	701	677	665	877	608	621	676					3,744
1179764.88	1886909.84	O-18	4/14/2011				2	-	5	1,661	1,859	1,112	568	512	674	662	655	559	548	540	642					1,859
1179784.94	1886909.84	O-19	4/14/2011				2	3	5	1,968	5,665	5,423	4,396	1,582	957	930	918	871	804	572	567					5,665
1179805.90	1886909.95	O-20	4/14/2011		4E		3	-	>12	949	1,680	7,695	2,200	1,231	1,279	1,087	1,219	1,221	1,230	1,219	819					7,695
1179825.17	1886909.95	O-21	4/14/2011				3	4	>12	1,136	4,287	35,192	17,514	2,239	1,525	1,398	1,330	1,178	1,311	1,037	1,116					35,192
1179845.34	1886909.95	O-22	4/14/2011				2	3	>12	3,432	20,004	29,725	6,014	2,800	2,421	1,964	1,666	1,542	2,442	1,877	1,538					29,725
1179865.84	1886909.95	O-23	4/14/2011				2	3	>12	2,428	24,272	47,297	13,261	2,556	1,050	834	1,295	1,422	1,159	1,292	1,154					47,297
1179885.90	1886909.95	O-24	4/14/2011				3	4	>12	1,392	9,712	36,408	13,752	2,256	1,676	1,697	1,694	1,775	1,468	1,899	2,036					36,408
1179905.06	1886909.95	O-25	4/14/2011				3	4	>12	2,137	11,928	47,574	37,448	4,428	2,482	1,984	1,885	1,621	1,554	1,252	1,151					47,574
1179925.11	1886909.84	O-26	4/14/2011	refusal at 8		2S	2	3	>12	2,707	28,648	34,001	6,611	1,944	886	796	758	1,171	1,368	1,336	1,310					34,001
1179944.83	1886909.84	O-27	4/14/2011				2	3	9	1,690	3,833	2,100	1,162	1,042	1,084	1,072	761	900	849	662	581					3,833
1179965	1886910	O-28	4/29/2011				2	-	10	1,107	1,534	1,024	1,090	1,384	1,272	1,043	765	877	725	645	632					1,534
1179745	1886890	P-17	4/29/2011		5W		2	-	6	4,595	7,864	7,159	5,036	2,351	859	715	973	926	656	613	552					7,864
1179785	1886890	P-19	4/29/2011				2	-	5	1,144	1,772	1,102	577	543	615	602	545									1,772
1179825	1886890	P-21	4/29/2011	Refusal at 2		4S	3	-	>12	1,112	3,512	9,183	2,877	1,255	934	1,230	1,297	1,274	829	967	622					9,183
1179865	1886890	P-23	4/29/2011	Refusal at 2		4S	2	-	>12	765	1,559	1,489	1,464	976	1,310	1,315	1,219	1,223	1,384	1,562	2,046					2,046
1179905	1886890	P-25	4/29/2011				3	-	>12	1,407	5,047	21,598	7,143	1,901	1,401	1,211	941	1,127	1,007	1,174	1,046					21,598
1179945	1886890	P-27	4/29/2011				3	-	5	1,105	1,725	1,782	1,490	747	590	526	554	531	516	538	591					1,782
1179725	1886870	Q-16	5/3/2011				-	-	>12	492	1,024	1,128	991	956	1,027	732	889	834	665	527	546					1,128
1179765	1886870	Q-18	5/3/2011				-	-	10	628	786	1,157	954	795	793	820	826	865	1,259	842	574					1,259
1179805	1886870	Q-20	5/3/2011				-	-	>12	968	1,148	1,401	1,125	995	1,041	986	1,044	871	1,013	679	558					1,401
1179845	1886870	Q-22	5/3/2011	Refusal at 6		2S	3	-	>12	1,078	1,699	4,571	1,440	911	932	988	966	919	854	955	1,126					4,571
1179885	1886870	Q-24	5/3/2011				2	-	>12	1,058	6,460	5,458	1,579	1,252	1,258	1,290	984	1,314	1,379	1,425	1,177					6,460
1179925	1886870	Q-26	5/3/2011	Refusal at 4		2S	-	-	>12	724	1,225	1,646	1,713	1,308	1,281	1,002	978	1,119	994	1,031	858					1,713
1179965	1886870	Q-28	5/4/2011				-	-	>12	1,102	1,385	1,347	1,179	1,305	1,341	1,395	1,076	773	678	545	610					1,395
1179825	1886850	R-21	5/3/2011	Refusal at 6 twice		4N	4	-	>12	650	889	1,819	1,506	1,194	1,142	1,214	966	892	1,061	903	991					1,819
1179865	1886850	R-23	5/3/2011				4	-	>12	875	966	1,549	1,555	831	957	931	949	1,007	1,076	1,405	1,417					1,555
1179905	1886850	R-25	5/3/2011				3	-	>12	1,171	4,401	20,287	4,350	1,530	1,169	944	1,147	1,149	1,344	762	496					20,287
1179945	1886850	R-27	5/3/2011				3	-	>8	961	2,953	8,594	2,074	1,402	1,255	1,253	1,058									8,594
1179965	1886850	R-28	5/4/2011				-	-	>8	608	1,067	1,081	1,110	1,187	985	638	641									1,187
1179845	1886830	S-22	5/4/2011	Refusal at 6 and 7		4S	5	-	>12	935	1,056	1,520	1,659	1,749	1,272	1,207	1,317	1,190	936	956	952					1,749
1179885	1886830	S-24	5/4/2011	Refusal at 5		2S	-	-	>16	1,013	956	1,138	988	692	826	712	693	749	1,083	1,003	829					1,138
1179905	1886830	S-25	5/3/2011				-	-	>8	770	1,164	1,003	1,018	1,392	1,098	1,148	1,037									1,392
1179925	1886830	S-26	5/4/2011	Refusal at 9		2S	7	-	11	962	1,278	1,117	1,537	1,479	1,508	1,538	1,380	1,305	1,161	784	583					1,538
1179945	1886830	S-27	5/4/2011				-	-	>8	546	982	1,222	1,299	1,090	1,000	818	822									
1179965	1886830	S-28	5/4/2011			4S	3	-	5.5	799	1,480	1,678	774	882	675	632	666									1,678

- Notes: - measurement above 3500 cpm (estimated to be about equivalent to 7.2 pCi/g base on Streeterville material)
 - measurement collected from native sand
******* - boring skipped because apparently clean boundary has been delineated
- depths adjusted based on estimated hill elevation (above grade reading listed below), 25-ft cord used

Location	One-Minute Gamma Count (ft-above grade)							
	+8	+7	+6	+5	+4	+3	+2	+1
E-3#								1,535
E-4#								1,687
E-5#							1358	1,138
E-6#								1,043
F-3#								1,236
F-4#							1,281	1,390
F-5#					1,540	1,505	902	695
F-6#	1741	1337	970	887	1203	786	981	3,644
F-7#								961
G-5#								1,203
G-6#			1248	1222	851	862	901	988
G-7#			1184	1276	965	930	1154	1745
H-7#			1494	1469	1280	769	839	1135
I-7#							1394	1322
I-8#						1436	1132	1003

Table 2: Gamma Spectroscopy Soil Results

Table 2
Gamma Spectroscopy Soil Results
Former Carnotite Reduction Company

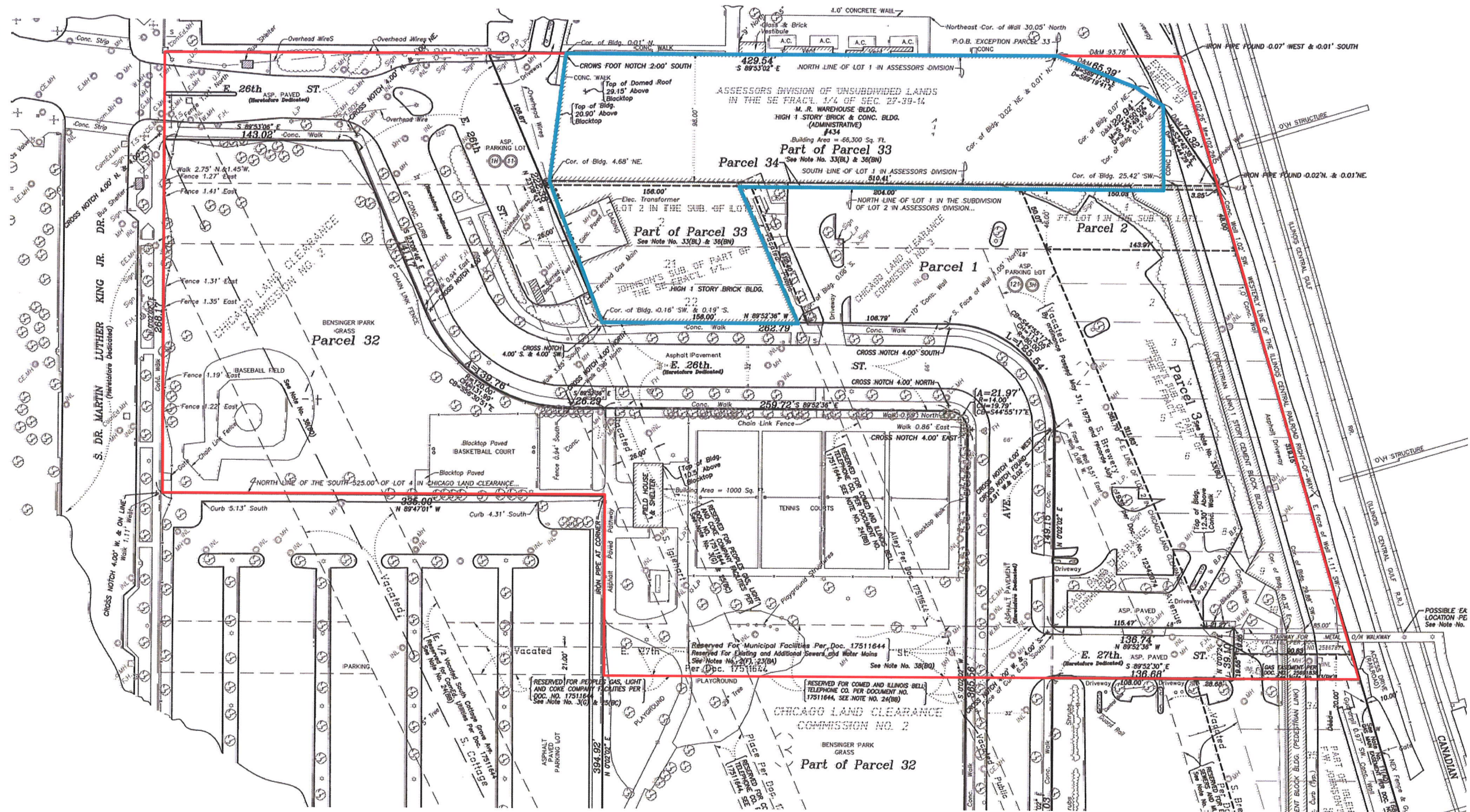
Location	Sample Depth (ft-bgs)	Horizon	One-Minute Gamma Count (cpm)	Total Ra (pCi/g)	Total U (pCi/g)
A-12	2	Surface	17,883	58.90	24.66
A-6	2		8,230	14.49	17.12
B-11	2		168,112	366.70	78.18
B-4	2		1,916	2.75	2.79
C-13	2		4,145	6.71	4.01
D-12	2		2,878	6.72	7.35
D-4	2		2,224	1.42	1.98
D-7	1		86,279	245.69	157.59
E-10	1		18,089	78.91	ND
E-7	2		3,882	6.85	6.47
F-11	1		8,344	5.88	6.35
G-11	2		4,915	5.25	10.28
G-12	2		182,113	529.98	31.84
G-6#	1		2,544	3.15	4.33
G-8	2		36,743	110.34	54.45
H-10	1		43,887	32.57	ND
H-4	2		1,212	2.09	1.19
H-7#	2		2,431	2.02	3.90
H-7#	+5		1,469	2.30	3.95
I-8#	+2		1,011	2.34	2.15
I-9	1		8,840	10.18	6.44
J-10	1		2,746	5.03	4.55
J-13	2		6,283	9.37	3.18
K-13	2		4,128	8.11	1.72
L-19	2		1,329	1.77	1.45
M-12	2		1,547	2.58	2.45
M-15	2		5,054	6.70	1.09
M-22	2		2,956	5.18	0.63
N-14	1		1,481	2.21	1.29
N-19	1		12,512	15.71	15.09
N-22	1		21,582	11.64	5.57
N-27	1		1,740	4.20	3.36
O-17	2	3,744	2.74	1.56	
O-23	2	24,272	1.78	1.74	
O-26	2	28,648	15.29	3.68	
O-28	2	1,534	2.62	2.31	
P-19	2	1,772	1.30	1.69	
Q-24	2	6,460	17.12	36.71	
A-6	5	Subsurface	6,669	0.85	9.89
A-8	10		48,338	2.05	2,990.19
B-6	3		26,812	31.56	2,434.95
B-8	3		118,817	277.96	162.16
B-8	11		42,064	1.92	3,310.75
B-9	4		23,730	21.52	2,444.96
B-9	7		60,685	55.63	3,670.42
C-10	7		13,963	16.74	261.89
E-12	5		230,957	1,180.63	826.36
E-3	3		2,330	1.52	ND
F-5	7		2,454	4.40	3.77
G-8	3		11,605	5.70	27.30
H-12	4		94,946	63.16	11.11
H-6	3		3,091	2.67	2.02
J-13	3		4,184	7.95	4.26
J-15	9		4,003	0.98	1.08
K-12	3		1,986	4.48	6.20
M-15	3		4,090	8.46	1.86
O-23	3		47,297	103.37	44.12
R-25	3		20,287	49.61	16.12

Notes:

- Gamma count above 3,500 cpm
- Total Ra activity measurement greater than 7 pCi/g
- Total U activity measurement greater than 22 pCi/g

Figure 1: Radiological Surface Survey Boundary

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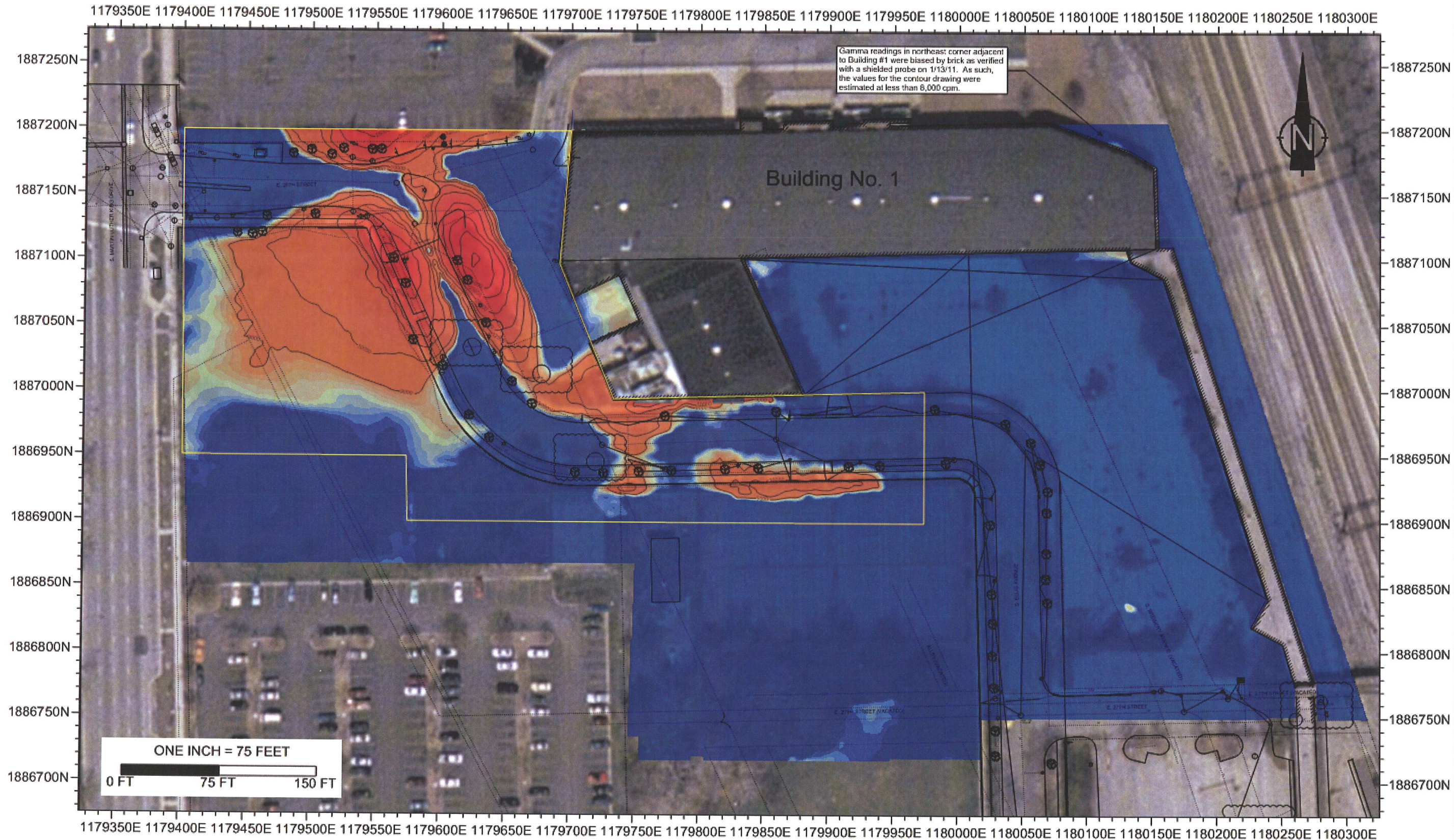
LEGEND:
— SURVEY BOUNDARY
— INTERIOR SURVEY BOUNDARY



**RADIOLOGICAL SURFACE SURVEY BOUNDARY
 FORMER CARNOTITE REDUCTION COMPANY
 VICINITY OF E. 26TH ST. AND S. ELLIS AVE,
 CHICAGO IL**

Drawn:	DJD	10/04/2010
Checked:	DEF	10/04/2010
Approved:	GHI	10/04/2010
PROJECT NUMBER	60158985	
FIGURE NUMBER	1	

Figure 2: Radiological Surface Screening Results



Gamma readings in northeast corner adjacent to Building #1 were biased by brick as verified with a shielded probe on 1/13/11. As such, the values for the contour drawing were estimated at less than 8,000 cpm.

NOTES:
 Radiological data collected using a Ludlum Model 2221 with an unshielded Probe Model 44-10 on December 14-15, 2010.
 Position control was maintained using a Trimble ProXRIS Differential GPS (DGPS) in Illinois East State Plane NAD83 Geoidetic Datum.
 Data collection profile spacing was approximately 3 feet with station spacing at approximately 5.0 feet or less.
 Background: Paved Surfaces - 4050 CPM
 Soil Surfaces - 8815 CPM

AECOM
 303 E. WACKER DR., SUITE 900
 CHICAGO, ILLINOIS 60601
 PHONE: 312.938.0300
 FAX: 312.938.1109
 WEB: HTTP://WWW.AECOM.COM

Radiological Surface Screening Results
 Former Carmotte Reduction Company
 Chicago, Cook County, IL
 December 2010

SCALE:	DATE:	PROJECT NUMBER:
AS SHOWN	02/07/2011	60158985.0200

DRAWING NUMBER:
FIGURE
2

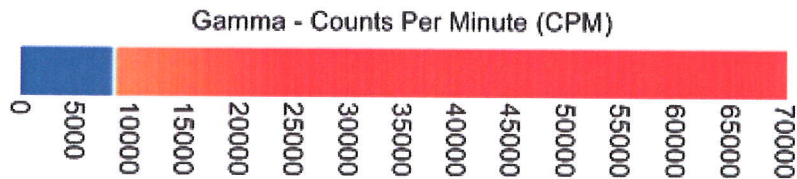
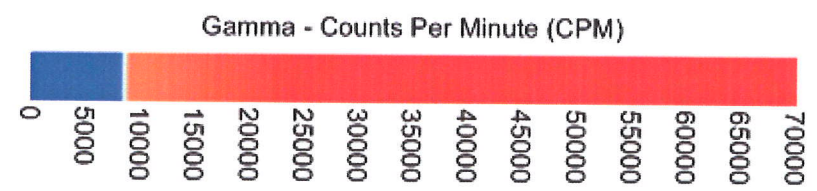
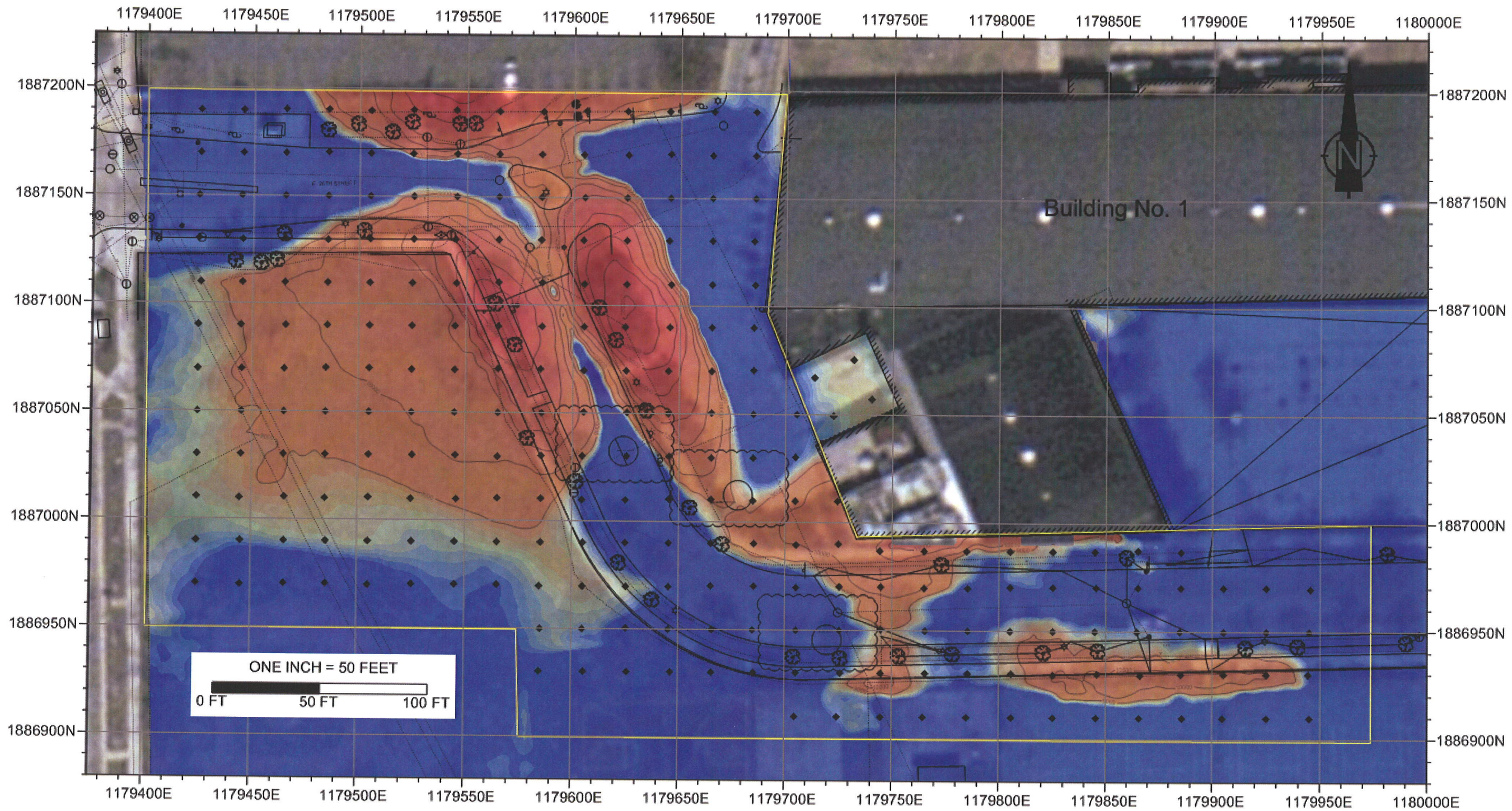


Figure 3: Proposed Vertical Delineation Sampling Locations



Legend
 ◆ Boring Location for Down-hole Gamma

NOTES:
 Radiological data collected using a Ludlum Model 2221 with Probe Model 44-62 (1 1/2" x 1" NaI) with lead endcap.
 Data collection grid spacing is approximately 20 feet.

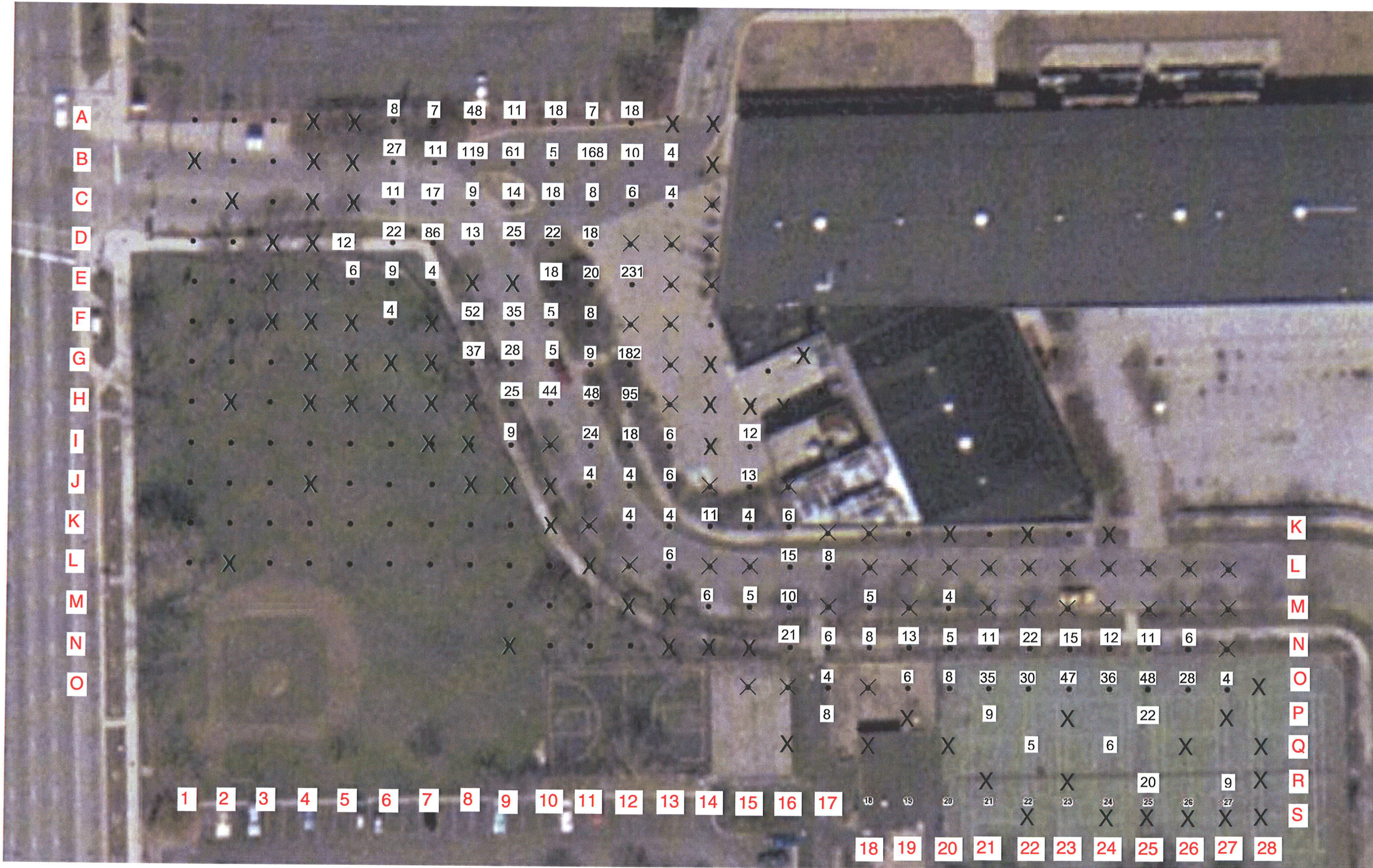
AECOM
 AECOM
 303 E. WACKER DR., SUITE 900
 CHICAGO, ILLINOIS 60601
 PHONE: 312.936.0300
 FAX: 312.938.1109
 WEB: HTTP://WWW.AECOM.COM

Proposed Vertical Delineation Sampling Locations
 Former Carnotite Reduction Company
 Chicago, Cook County, IL
 February 2011

SCALE:	DATE:	PROJECT NUMBER:
AS SHOWN	02/07/2011	60158985.0200

DRAWING NUMBER:
FIGURE
3

Figure 4: Downhole Survey Preliminary Results

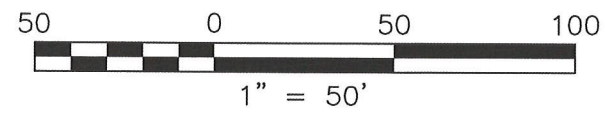


K:\PROJECTS\60158985\CAD\001_Drawings\Sheets\60158985_Downhole Survey.dwg; 4/20/2011 12:47:38 PM; COX, KAREN; STS.atb

DOWNHOLE SURVEY PRELIMINARY RESULTS
FORMER CARNOTITE REDUCTION COMPANY
CHICAGO, COOK COUNTY, ILLINOIS

LEGEND

- ✕ BORING COMPLETE,
GAMMA READING < 3500 cpm
- 48 MAXIMUM GAMMA READING
DIVIDED BY 1000 (i.e. 48 = 48,000 cpm)



Drawn :	KLC 04/01/2011
Checked:	STN 04/01/2011
Approved:	SCK 04/01/2011
PROJECT NUMBER	60158985
FIGURE NUMBER	4

Figure 5: Activity Versus Gamma Count

Figure 5
Activity Versus Gamma Count
Former Carnotite Site

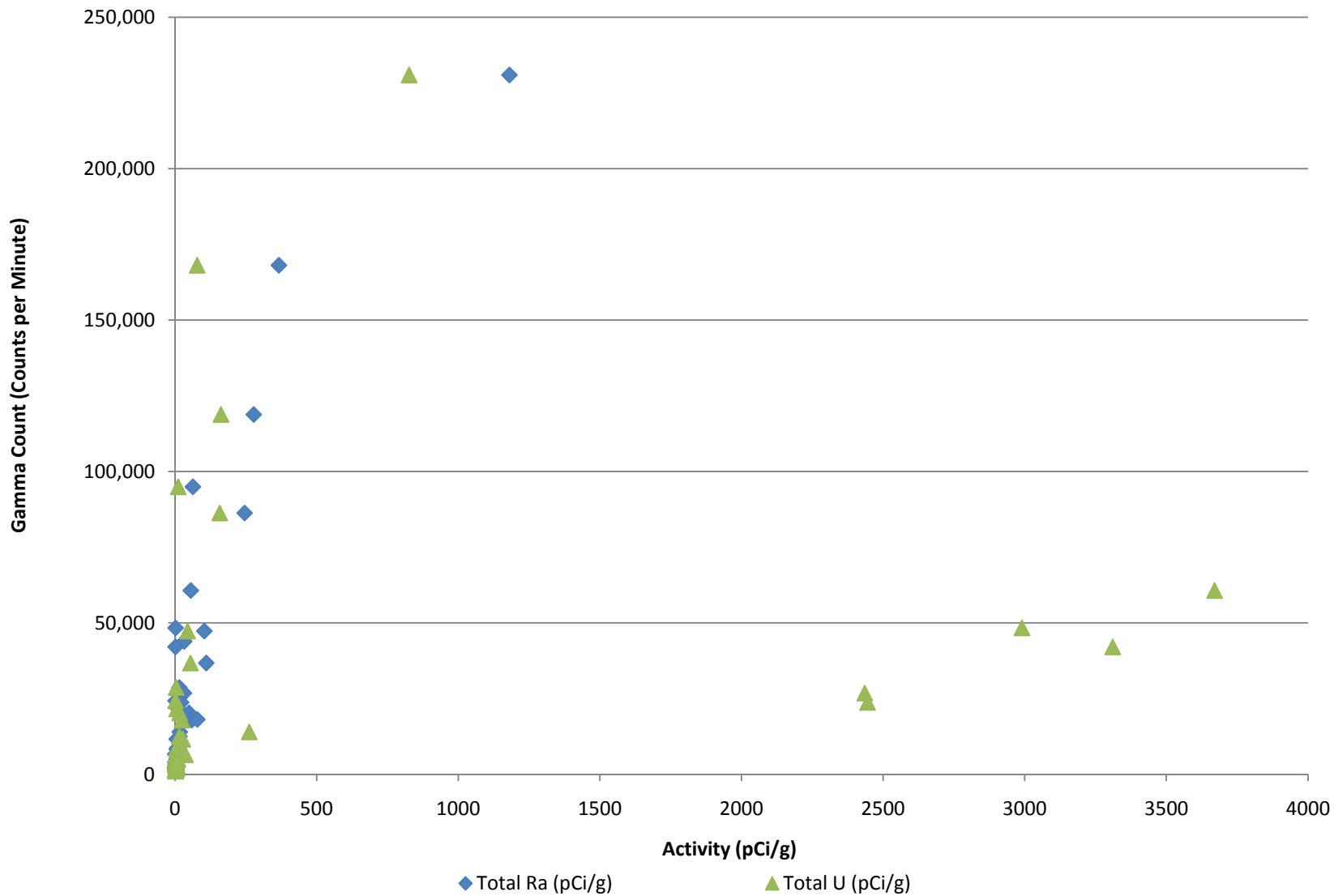


Figure 6: Activity Versus Gamma Count for Select Samples

Figure 6
Activity Versus Gamma Count For Select Samples
Former Carnotite Site

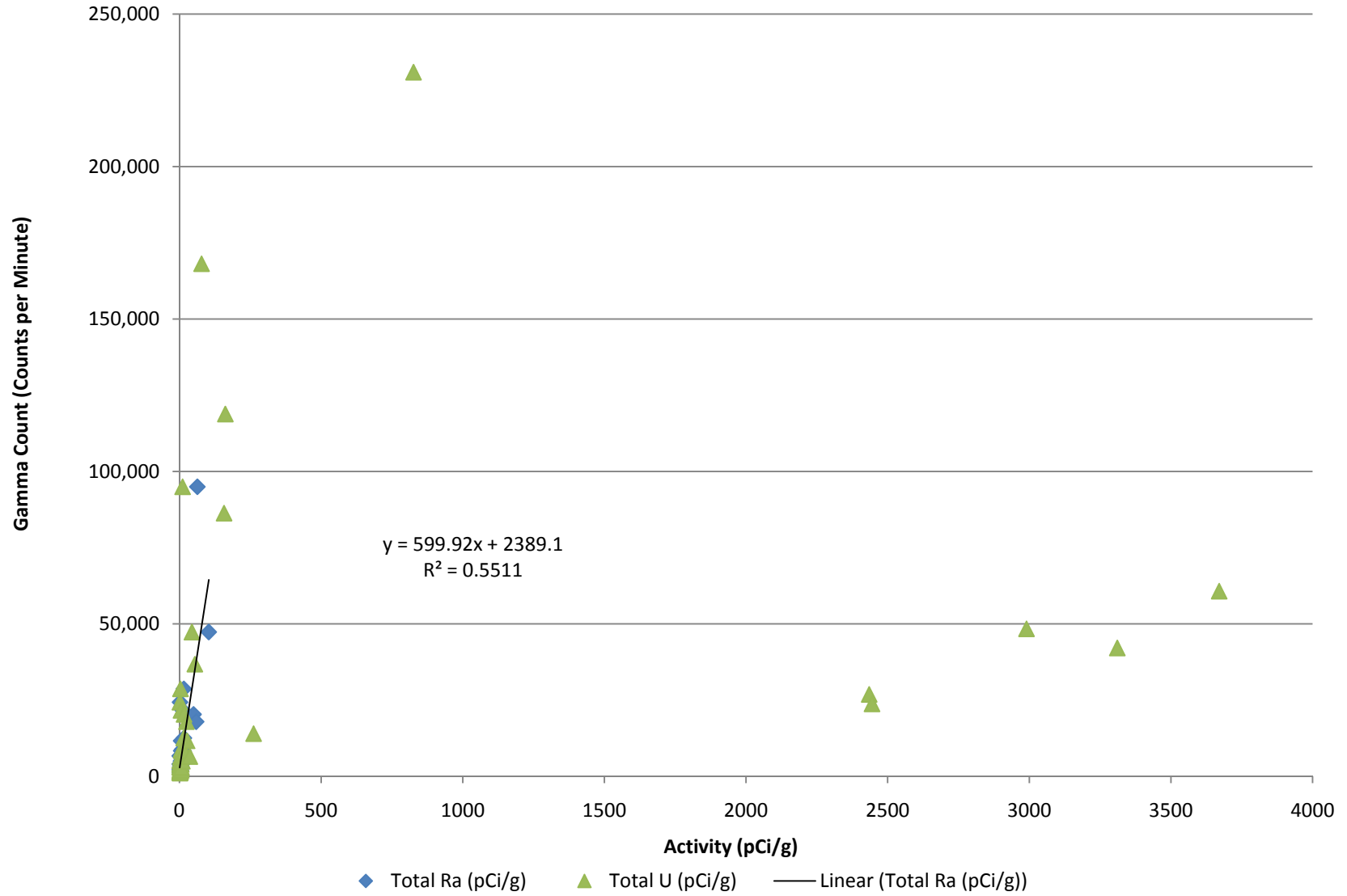


Figure 7: Total Ra & U Gamma Spectroscopy Results – Surface (0-2 ft Below Surface Grade), Spring 2011

Former Carnotite Reduction Company, Chicago, IL Total Ra & U Gamma Spectroscopy Results - Surface (0-2 ft Below Surface Grade) Spring 2011

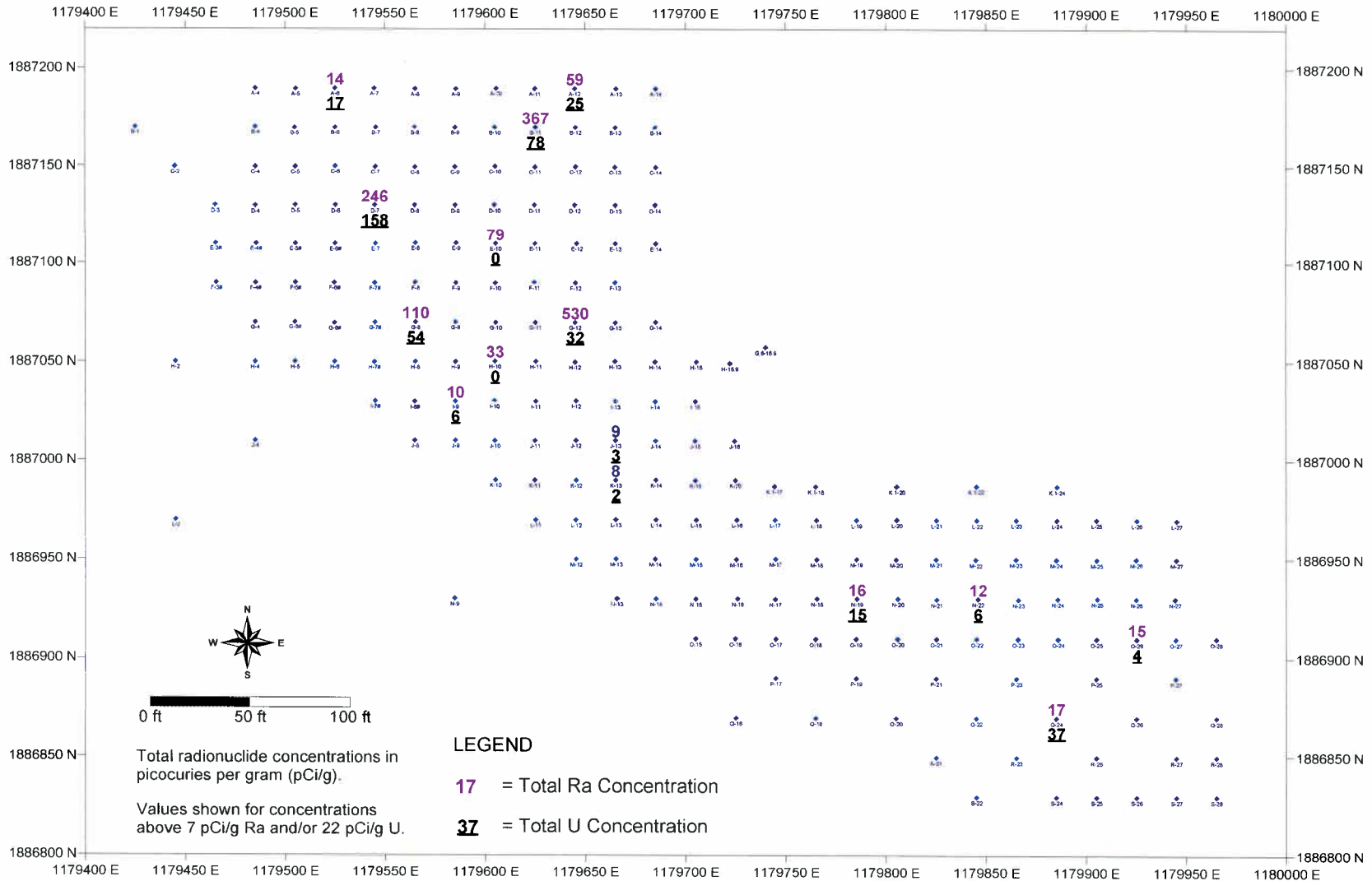


Figure 7

Figure 8: Total Ra & U Gamma Spectroscopy Results – Surface (>2 ft Below Surface Grade), Spring 2011

Former Carnotite Reduction Company, Chicago, IL Total Ra & U Gamma Spectroscopy Results - Subsurface (>2 ft Below Surface Grade) Spring 2011

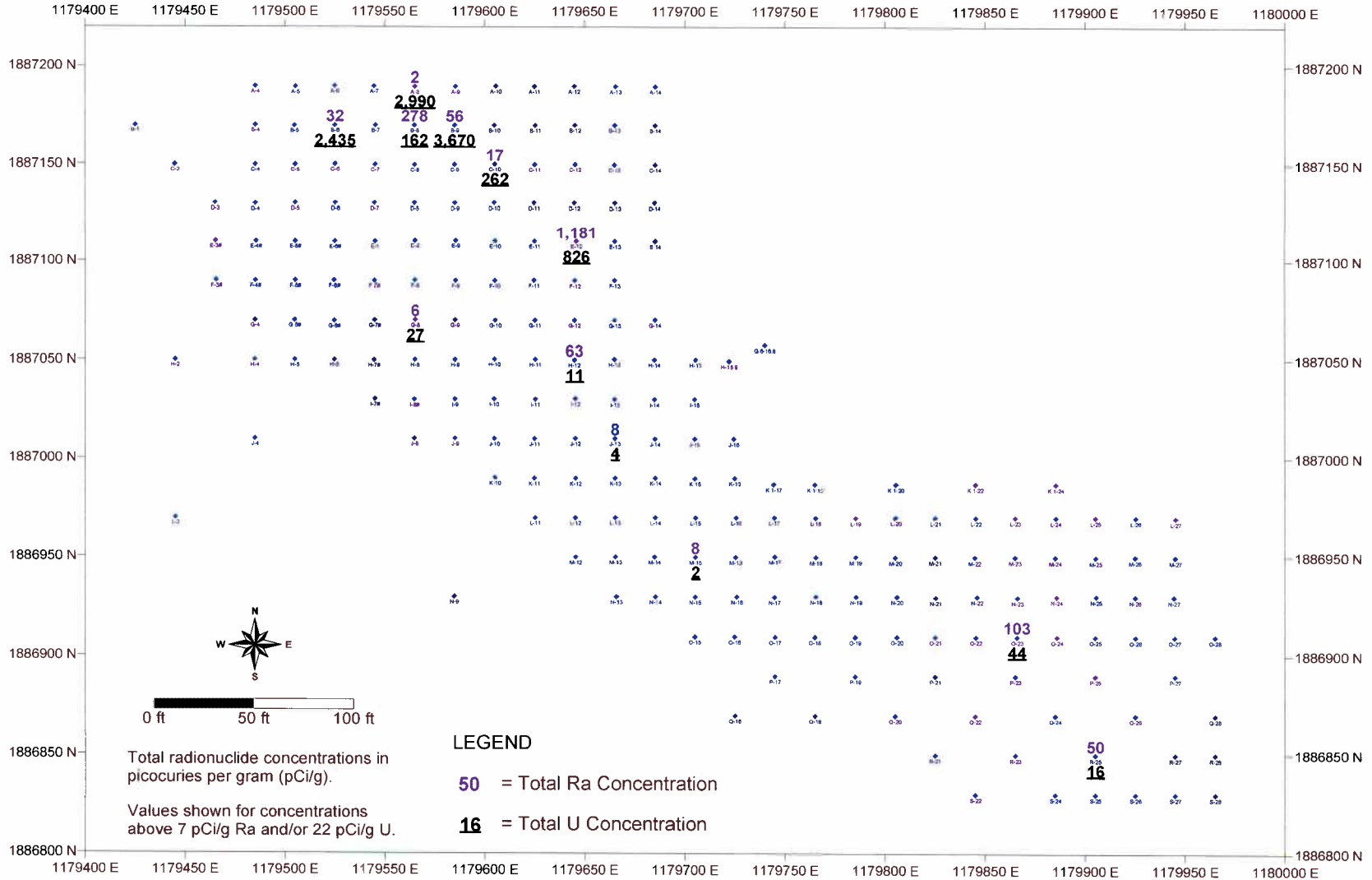


Figure 8

Appendix 1: Ludlum Instrument Calibration Information



200 North Cedar Road - New Lenox, Illinois 60451-1751 - (800) 383-0468 or (815) 485-6161 - FAX (815) 485-4433 - Email sahci@sahci.com - Home Page www.sahci.com

Certificate of Calibration

Facility: **AECOM ENVIRONMENTAL**

City/State: **VERNON HILLS IL**

Calibration Date: Jan 7, 2011

Manufacturer: **LUDLUM**

Model No.: **3**

Serial No.: **176794**

Instrument Identification:

- G-M ION CHAMBER POCKET DOSIMETER _____
 PANCAKE END WINDOW SIDE WINDOW _____
 Open Closed Fixed

Probe Type:

Window:

Calibration Sources

Cs-137 #1 ($\Gamma=0.33$) 0.2739 mCi

Cs-137 #2 ($\Gamma=0.33$) 68.62 mCi

Co-57 ($\Gamma=0.09$) 0.097 mCi

Co-57 Efficiency Relative to Cs-137: 1 mR/hr = 15.7 cm

Observed mR/hr (Co-57) 1.9
 Actual mR/hr (Co-57) 1 x 100 = 190 %

All Sources as of Date: 1/7/2011

Scale Ranges	Distances Source #1	Distances Source #2	Actual mR/hr	Observed mR/hr	Within +/- 10%	Correction Factor
0.1	<u>80.3</u>		0.05	<u>0.05</u>	Yes	.
	<u>46.4</u>		0.15	<u>0.15</u>		
1	<u>25.4</u>		0.5	<u>0.5</u>		.
	<u>14.7</u>		1.5	<u>1.5</u>		
10	<u>8.0</u>	<u>212.8</u>	5	<u>5</u>		.
		<u>122.9</u>	15	<u>15</u>		
100		<u>67.3</u>	50	<u>50</u>		.
		<u>38.9</u>	150	<u>150</u>		

Angle of the flux field to detector (internal or external) is 90 degrees (perpendicular) and the distance is from center of source to center of detector, unless stated otherwise. Sodium iodide front end detectors are calibrated parallel to the flux field. All Sources used for calibrations are traceable to the National Institute Of Standards and Technology.

Source Set D Scales calibrated electronically with Pulser #142038 or #159107

Battery Check: 1.8 (mR/hr) or _____ Operational Check: _____ (mR/hr) using _____

Comments: _____

Next Calibration Date: January 7, 2012

Calibrated by: Joel M. Ahrweiler
 Joel M. Ahrweiler

Ludlum Model 2221/44-10 Calibration

Model 2221 serial number: 176944

Probe 44-10 serial number: PR 098196

Date: 11/8/10

Scaler Linear Check

Pulsar model/serial number: Ludlum 5001 142038

Calibration Due Date: 11/23/10

Threshold set to 100 mv. 6H (tech. Init.)

Pulsar setting in cts.	Multiplier	As Found Scaler reading in cts.	After Adjustment Scaler reading in cts.
<u>400</u>	X1	<u>399</u>	<u>-</u>
<u>4K</u>	X10	<u>3993</u>	<u>-</u>
<u>40K</u>	X100	<u>39995</u>	<u>-</u>
<u>400K</u>	X1000	<u>399164</u>	<u>-</u>

Voltage Plateau

Source isotope/serial number: CS-137 0.894Ci on 12/20/95 1 #4830

BKGD PLATEAU			SOURCE PLATEAU		
volts	source counts	8kg counts	volts	counts	counts
<u>700</u>	<u>17558</u>	<u>1244</u>	<u>1100</u>	<u>31659</u>	<u>4656</u>
<u>750</u>	<u>22616</u>	<u>1911</u>	<u>1150</u>	<u>31875</u>	<u>4485</u>
<u>800</u>	<u>26068</u>	<u>2925</u>	<u>1200</u>	<u>32179</u>	<u>4855</u>
<u>850</u>	<u>28560</u>	<u>3746</u>			
<u>900</u>	<u>30023</u>	<u>4255</u>			
<u>950</u>	<u>30987</u>	<u>4441</u>			
<u>* 1000</u>	<u>31346</u>	<u>4686</u>			
<u>1050</u>	<u>31917</u>	<u>4592</u>			

operating voltage selected: 1000 V

Ludlum Model 2221/44-10 Calibration

Model 2221 serial number: 176944

Probe 44-10 serial number: PR 098196

Date:

window verified at about 3830

Instrument BKGD

1 minute BKDG counts

<u>5648</u>	<u>5658</u>
<u>5672</u>	<u>5693</u>
<u>5712</u>	<u>5646</u>

Average: 5672

Source Block Data

Source block ID:

2012-54-17A 2012-54-37A
2012-54-27A 2012-54-47A

1 minute Source Block counts

<u>24478</u>	<u>24339</u>
<u>24338</u>	<u>24246</u>
<u>23879</u>	<u>24089</u>

Average: 24228 cpm Net Average: 18556 cpm

Activity Calculation

Net Average source count rate of: 18556 cpm divided by 10 = 1855.6

Times ^{7.1} 7.2 = 13174.8 (A)

Square root of (A) = 114.8 times 2 = 229.6 (B)

(A) plus the average BKGD = 18846.8 ^{7.1} CPM/7.2 pCi

The cutoff value is: 18617 ^{7.1} (CPM/7.2 pCi minus (B))

Calibration performed by: [Signature]

DATE: 11/9/10

Calibration approved by: _____

DATE: _____

w/6" lead shield AECOM

Ludlum Model 2221/44-10 Calibration

Model 2221 serial number: 176944

Probe 44-10 serial number: PRO98196

Date: 11/8/10 window verified at about 3830

Instrument BKGD

1 minute BKGD counts

<u>1450</u>	<u>1427</u>
<u>1388</u>	<u>1406</u>
<u>1525</u>	<u>1369</u>
Average: <u>1428</u>	

Source Block Data

Source block ID: 2012-54-1TA 2012-54-3TA
2012-54-2TA 2012-54-4TA

1 minute Source Block counts

<u>9158</u>	<u>9167</u>
<u>9380</u>	<u>8809</u>
<u>8983</u>	<u>8920</u>
Average: <u>9070</u> cpm	Net Average: <u>7642</u> cpm

Activity Calculation

Net Average source count rate of: 7642 cpm divided by 10 = 764.2

Times ^{7.1}~~7.2~~ = 5425.8 (A)

Square root of (A) = 73.66 times 2 = 147.3 (B)

(A) plus the average BKGD = 6853.8 ^{7.1}CPM/7.2 pCi

The cutoff value is: 6707 ^{7.1}(CPM/7.2 pCi minus (B))

Calibration performed by: [Signature] DATE: 11/8/10

Calibration approved by: _____ DATE: _____

Ludlum Model 2221/44-10 Calibration

Model 2221 serial number: 176944

44-62

Probe 44-10 serial number: PR 294074

Date: 11/8/10

Scaler Linear Check

Pulsar model/serial number: Ludlum 500 1 142038

Calibration Due Date: 11/23/10

Threshold set to 100 mv. 6H (tech. Init.)

Pulsar setting in cts.	Multiplyer	As Found Scaler reading in cts.	After Adjustment Scaler reading in cts.
<u>400</u>	X1	<u>399</u>	-
<u>4k</u>	X10	<u>3993</u>	-
<u>40k</u>	X100	<u>39995</u>	-
<u>400k</u>	X1000	<u>399164</u>	-

Voltage Plateau

Source isotope/serial number: <S-137> 0.894G
on 12/20/95 1 #4830

BKGD PLATEAU

SOURCE PLATEAU

volts	source counts	Bkg counts	volts	source counts	Bkg counts
<u>400</u>	<u>1975</u>	<u>97</u>	<u>800</u>	<u>13519</u>	<u>1096</u>
<u>450</u>	<u>3244</u>	<u>267</u>	<u>850</u>	<u>47281</u>	<u>3530</u>
<u>500</u>	<u>3232</u>	<u>317</u>	<u>900</u>	<u>120208</u>	<u>11857</u>
<u>550</u>	<u>3301</u>	<u>318</u>	<u>950</u>	<u>192602</u>	<u>38345</u>
<u>* 600</u>	<u>3439</u>	<u>348</u>	<u>1000</u>	<u>229958</u>	<u>64348</u>
<u>650</u>	<u>3354</u>	<u>315</u>			
<u>700</u>	<u>3511</u>	<u>369</u>			
<u>750</u>	<u>4679</u>	<u>465</u>			

operating voltage selected: 600 V

Date: November 8, 2010
Performed By: Glenn Huber

Ludlum Model 2221 S/N 176944
Ludlum Model 44-62 S/N PR294074

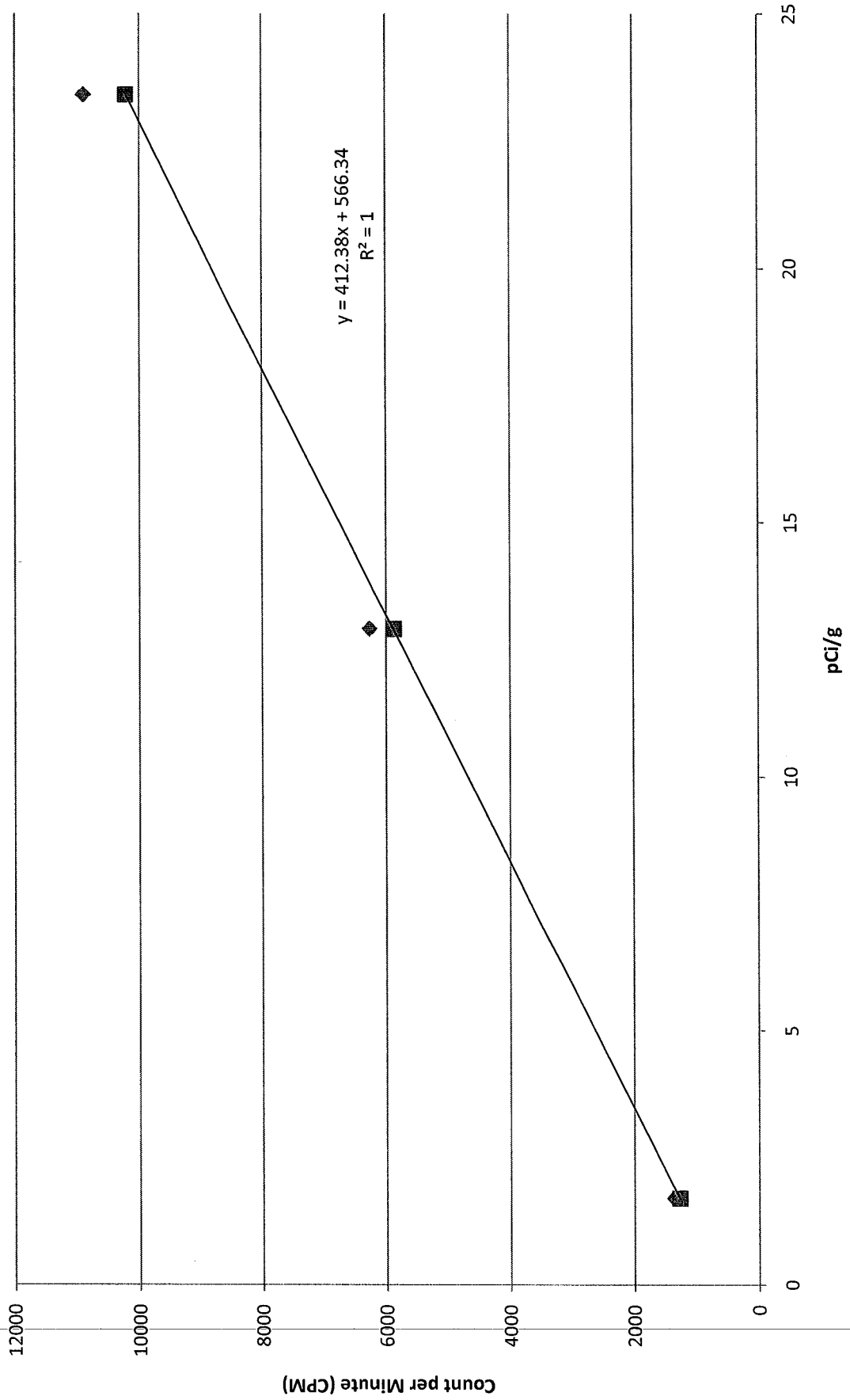
IMPORTANT NOTE: HV must be set to 600V prior to using. Currently set at 1000V for Model 44-10
2"x2" NaI detector

Thorium Downhole Data

CD-1	1.7 pCi/g
CD-8	12.9 pCi/g
CD-7	23.4 pCi/g

DRUM	Avg CPM
CD-1	1355
CD-8	6262
CD-7	10890

Down-hole Calibration 1/2 X 1-inch NaI Probe



◆ Unshielded CPM ■ Estimated Shielded CPM — Linear (Estimated Shielded CPM)

Appendix 2: Soil Boring Logs

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number A-4
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Sou Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD 22 YY 11	MM 4 DD 22 YY 11	Geoprobe
Start Time: 1350	End Time: 1400	Well Name: N/A	Static Water Level Feet BGS	Borehole Diameter 2.4 inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	(0.0-0.5') RED GRAVEL (LAPIDREADING FINE)	2.2		1	1467	
			2.0	(0.5-4.0') BROWN-BLACK, F-C SAND, AND F-UM GRAVEL, TRACE BRUSH, TRACE CLONEN, LOOSE, MOIST, NO OOLN			2	1203	
			3.0				3	984	
			4.0				4	829	
4	8	GP	4.0	(4.0-5.0') SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO OOLN	3.0		5	698	
			5.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-UM SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOLN			6	771	
			6.0				7	768	
			7.0				8	684	
			8.0	EOB @ 8'					

Sampled @ noon

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

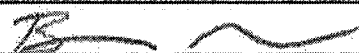
Project Name Michael Reese		Client Michael Reese		Boring Number A-5
Boring Drilled By: Name of crew chief (first, last) and Firm: First Name: John Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD/ 22YY 11	MM 4 DD/ 22YY 11	Geoprobe
Start Time: 1150	End Time: 1200	Well Name N/A	Static Water Level Feet BGS	Borehole Diameter 4 1/2 inches

Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL
------------------------------	-----------------------	--

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0-0.5'	RED BROWN, (LAWSONIAN) (fill)	2.1		1	1384	
			1.0	(0.5-4.0') URBAN FILL: BROWN-BLACK, F-C SAND, AND F-M GRAVEL, TRACE BROWN, TRACE GINSENG, LOOSE, MOIST, NO OOLITE			2	1288	
			2.0				3	874	
			3.0				4	834	
			4.0				5	717	
4	8	GP	4.0-6.0'		SAND FILL BROWN F-M SAND, SW, TRACE F GRAVEL, FINE GRAVEL, LOOSE, MOIST, NO OOLITE	2.9		6	709
			5.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOLITE			7	689	
			6.0				8	745	
			7.0						
			8.0	EOB @ 8'					
			9.0						
			10.0						
			11.0						
			12.0						

Sampled
@ noon

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number A-6
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD/ 22 YY 11	Date Drilling Completed MM 4 DD/ 22 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1120	End Time: 1135	Well Name N/A	Static Water Level 10' Feet BGS
Project #: 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0.0-0.5'	RED GRAVEL (LANDSCAPE FILL)	2.6		1	4446	
			0.5-4.0'	UNSAT FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE BAKN, TRACE CLOBBN, LOOSE, MOIST, NO OGRN			2	8230	
							3	6643	
							4	3359	
							5	6669	
4	8	GP	4.0-5.0'	GRAVEL CA-6 FILL LOOSE, MOIST, NO OGRN	2.7		6	1571	
			5.0-8.0'	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE MOIST, NO OGRN			7	1560	
							8	1321	
							9	1184	
							10	820	
							11	889	
8	12	GP	8.0-12.0'	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 10', NO OGRN	3.3		12	691	
									S5041 C-24-5
									BOB @ 12'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

SOIL BORING LOG INFORMATION

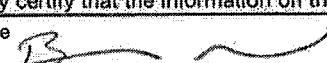
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number A-7	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe	
Firm: Del Mar		MM/ DD/YY MM/ 4 DD/ 22 YY 11	MM/ DD/YY MM/ 4 DD/ 22 YY 11		
Start Time: 1043	End Time: 1104	Well Name N/A	Static Water Level 10' Feet BGS	Borehole Diameter 2.9 inches	
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL			

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0.0 - 1.0	(0-0.5') RED GRAVEL (BR-ORANGE Fill)	2.0		1	4955	
			1.0 - 2.0	(0.5-4.0') URBAN Fill: BRNW-DUSK, F-C SAND, TRAC P GRAVEL, TRACE BLUE, TRACE GLASS, LOOSE, MOIST, NO OGM			2	7134	
			2.0 - 3.0				3	7294	
			3.0 - 4.0				4	4149	
			4.0 - 5.0				5	3095	
4	8	GP	4.0 - 5.0	(4.0-6.0') SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO OGM	2.7		6	2429	
			5.0 - 6.0				7	2592	
			6.0 - 7.0	(6.0-8.0') BRNW NATIVE SAND, SW, F-M SAND, TRACE P GRAVEL, LOOSE, MOIST, NO OGM			8	2177	
			7.0 - 8.0				9	2221	
			8.0 - 9.0	(8.0-12.0') BRNW NATIVE SAND, SW, F-M SAND, TRACE P GRAVEL, LOOSE, WET @ 10', NO OGM	3.4		10	1477	
			9.0 - 10.0				11	713	
			10.0 - 11.0				12	629	
			11.0 - 12.0						

5 samples @ 3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

SOIL BORING LOG INFORMATION

AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number A-8
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/4 DD/22 YY11	MM/4 DD/22 YY 11	Geoprobe
Start Time: 0955	End Time: 1008	Well Name: N/A	Static Water Level N/A Feet BGS	Borehole Diameter 1.4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
------------------------------	-----------------------	---

Sample	From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
								Depth	CPM	Comments
	0	4	GP	1.0	(0-0.5) RED SAND (LANDSCAPING FILL)	1.6		1	2787	BORING OFF SET ↓ 5' (TREE)
				2.0	(0.5-4.0') (UNSAT FINE) LITTLE RECOVERY BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE SILT, TRACE CLAY, LOOSE, MOIST, NO OIL			2	9516	
				3.0				3	7085	
				4.0				4	8108	
	4	8	GP	5.0	(4.0-6.0') SANDY SILT (0.5-4.0') INTERVAL LOOSE, MOIST, NO OIL	1.1		5	10235	
				6.0				6	7081	
				7.0	(6.0-8.0') BROWN FINE SAND, SILT, F.M-SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OIL, IRON STAINING			7	6808	
				8.0				8	11058	
				9.0				9	37050	
	8	12	GP	10.0	(8.0-12.0') BROWN FINE SAND, SILT, F.M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OIL, IRON STAINING	3.5		10	48312	
				11.0				11	48076	
				12.0				12	25033	

SEP 1
①-X-10
GIL

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 760 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number A-9
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: STO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/4/DD/22 YY/11	MM/4/DD/22 YY/11	Geoprobe
Start Time: 0940	End Time: 0948	Well Name: N/A	Static Water Level: N/A	Borehole Diameter 14 inches
Project #: 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	(0.0-0.5') RED GRAVEL (LANDSCAPING FILL)	2.0		1	2543	
			2.0	(0.5-4.0') URBAN FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, SOME BASIN, TRACE GLASS, LOOSE, MOIST, NO 000A			2	10769	
			3.0				3	6238	
			4.0				4	2357	
4	8	GP	5.0	(4.0-6.0') URBAN FILL: SAND AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO 000A	3.0		5	2093	
			6.0				6	2114	
			7.0	(6.0-8.0') BROWN NATIVE SAND, SILT, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO 000A			7	2052	
			8.0				8	1865	
			8.0	END @ 8'					

Sign 1
0-2

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number A-10	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SETO		Date Drilling Started	Date Drilling Completed	Drilling Method	
Firm: Del Mar		MM/ 4DD/ 22YY 11	MM/ 4DD/ 22YY 11	Geoprobe	
Start Time: 0915	End Time: 0923	Well Name N/A	Static Water Level N/A	Feet BGS	Borehole Diameter 1.4 inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL			

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0.0 - 1.0	(0.0 - 0.5') #50 GRAVEL, (LAWD STADING FILL)	2.2		1	3895	
			1.0 - 2.0	(0.5 - 4.0') UNGRAV FILL: Brown - Blue, F-C Sand AND F-M GRAVEL, Some BRICK, TRACK GRAVEL, LOOSE, MOIST, NO OODR			2	18097	
			2.0 - 3.0				3	726	
			3.0 - 4.0				4	1512	
			4.0 - 5.0				5	934	
4	8	GP	4.0 - 5.0	(4.0 - 6.0') UNGRAV FILL: SAME AS	2.9		6	912	
			5.0 - 6.0	(0.5 - 4.0') INTERMIX, LOOSE, MOIST, NO OODR			7	900	
			6.0 - 7.0	(6.0 - 8.0') BROWN NATIVE SAND, SW, F-M SAND, TRAIL F GRAVEL, LOOSE, MOIST, NO OODR			8	929	
			8.0	EOB @ 8'					

*SOP W
R-2*

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number A-11
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <i>John</i> Last Name: <i>Soto</i>		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM <i>4 DD/ 22 YY 11</i>	MM <i>4 DD/ 22 YY 11</i>	Geoprobe
Start Time: <i>0901</i>	End Time: <i>0908</i>	Well Name N/A	Static Water Level <i>N/A</i>	Borehole Diameter <i>1.54</i> inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	RED GRAVEL (LANDFILL FILL) (0.5-4.0') VAR. FILL; LITTLE RECOVERY BRN. - BRN., FINE SAND AND FINE GRAVEL, SAND BRN., TRACT CLAYS, LOESS, MOIST, NO OIL	1.2		1	2196	
			2.0				2	7402	
			3.0				3	5998	
			4.0				4	1575	
			5.0				5	1058	
4	8	GP	6.0	(4.0-6.0') VAR. FILL; SAND AT 0.5-4.0' INTERVAL, LOESS, MOIST, NO OIL	2.7		6	1012	
			7.0				7	939	
			8.0				8	936	
			8.0	(6.0-8.0') BROWN MEDIUM SAND, SW FINE SAND, TRACT FINE GRAVEL, LOESS, MOIST, NO OIL					
			12.0	END @ 6'					

*Sampled
@ 20' X*

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>[Signature]</i>	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number A-12
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD/ 22 YY 11	Date Drilling Completed MM 4 DD/ 22 YY 11	Drilling Method Geoprobe
Start Time: 0845	End Time: 0855	Well Name: N/A	Static Water Level N/A Feet BGS	Borehole Diameter: 4.4 inches
Project # 60158985	County Cook	Civil Town/City/ or Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0.0-0.5'	RED GRAVEL (LANDSCAPING FILL)	1.9		1	4947	
			0.5-4.0'	UNSAT FINE BROWN-OLIVE F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE GIBBS, LOOSE, MOIST, NO OIL			2	17883	
			2.0				3	5050	
			3.0				4	2143	
			4.0				5	1190	
4	8	GP	4.0-6.0'	Same As (0.5-4.0')	2.5		6	926	
			5.0	UNSATURATED, LOOSE, MOIST, NO OIL			7	898	
			6.0				8	969	
			6.0-8.0'	BROWN NATIVE SAND, SILT, TRACE F-GRAVEL, LOOSE, MOIST, NO OIL					
			7.0						
			8.0						
			8.0-8'	EOS C 8'					
			9.0						
			10.0						
			11.0						
			12.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

557111
R-2

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number A-13
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD/ 22 YY 11	Date Drilling Completed MM 4 DD/ 22 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0815	End Time: 0830	Well Name: N/A	Static Water Level: 10' Feet BGS
Project #: 60158985	County: Cook	Civil Town/City/or Village: Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	RED GRAVEL, LOOSE, MOIST, NO OODN	2.4		1	1681	Boring offset 14' (Comm. Utility)
			1.0	(1.0-4.0') - URDAN FILL: BROWN - BROWN, F-C SAND, A.S.P. - M GRAVEL, TRACE BRICK, TRACE CEMENT, TRACE ORGANIC, LOOSE, MOIST, NO OODN			2	1470	
			2.0				3	2858	
			3.0				4	897	
4	8	GP	4.0	(4.0-6.0') URDAN FILL: SAME AS (1.0-4.0') INTERM, LOOSE, MOIST, NO OODN	3.0		5	757	
			5.0					6	826
			6.0					7	835
			7.0					8	743
			8.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODN			9	825	
			9.0					10	781
			10.0					11	624
			11.0					12	637
8	12	GP	12.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET C. 10', NO OODN	3.3				

Depth 0-5'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number A-14
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 5 DD/ 2 YY 11	Date Drilling Completed MM 5 DD/ 2 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0918	End Time: 0931	Well Name: N/A	Static Water Level: N/A Feet BGS
Project #: 60158985	County: Cook	Civil Town/City/Village: Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/ID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	(0-1') ASPHALT AND CA-6 GRAVEL SUBGRADE	2.0		1	831	BORING OFFSET → 5', ↓ 2' (COMM. UTILITY & HOSPITAL ENTRANCE DRIVEWAY)
			2.0	(1.0-4.0') UNSAT FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE CLINCH, LOOSE, MOIST, NO OODR			2	2302	
			3.0				3	1371	
			4.0				4	686	
4	8	GP	5.0	(4.0-5.0') BROWN FINE SAND: SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODR	3.0		5	624	597/110 @ 831' ± -2'
			6.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODR			6	693	
			7.0				7	777	
			8.0				8	670	
			9.0						
			10.0						
			11.0						
			12.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

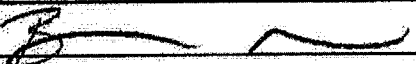
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number B-1
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/5 DD/2 YY 11	Date Drilling Completed MM/5 DD/2 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1255	End Time: 1313	Well Name: N/A	Static Water Level N/A
Project # 60158985	County Cook	City/Town/City/Village Chicago, IL	Borehole Diameter 4 Inches	

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)			
From (ft)	To (ft)						Depth	CPM	Comments	
0	4	GP	1.0	(0-2') ASPHALT AND CA-6 GRAVEL SUBGRADE, LOOSE, MOIST, NO ODOM	3.0		1	449		
			2.0	(2.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, LOOSE, MOIST, NO ODOM			2	884		
			3.0				3	783		
			4.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE R GRAVEL, LOOSE, MOIST, NO ODOM	2.9		4	696		
4	8	GP	5.0					5	973	
			6.0					6	911	
			7.0					7	858	
			8.0				8	712		
			8.0	EOB @ 8'						

Sampled @ nose

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number B-4
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started MM/4 DD/22 YY 11	Date Drilling Completed MM/4 DD/22 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1408	End Time:	Well Name N/A	Static Water Level 9' Feet BGS
Project #: 60158985		County Cook	Civil Town/City/Or Village Chicago, IL	

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.9		1	657	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, FINE SAND, AND F-M SAND, GRAVEL, TRACE BRICK, TRACE GLASS, LOOSE, MOIST, NO ODOM			2	1916	
			3.0				3	1301	
			4.0				4	834	
			5.0				5	743	
4	8	GP	6.0	(4.0-8.0') BROWN, FINE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE MOIST, NO ODOM IRON STAINING	2.7'		6	771	
			7.0				7	911	
			8.0				8	832	
			9.0				9	655	
			10.0				10	632	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, IRON STAINING, LOOSE, MOIST, NO ODOM, WET @ 9'	3.1		11	627	
			12.0				12	648	

Sample
① - 2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: 

Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number B-5
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ 4 DD/ 22 YY	MM/ 4 DD/ 22 YY	Geoprobe
Start Time: 1430	End Time: 1440	Well Name: N/A	Static Water Level: Feet BGS	Borehole Diameter 1.4 inches
Project #: 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND (CO-6) GRAVEL SUBGRADE	3.1		1	1039	
			2.0	(1.0-4.0') UNAS FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, SOME BRN, TRACE CINQBA, LOOSE, MOIST, NO OGR			2	2454	
			3.0				3	1867	
			4.0				4	812	
4	8	GP	5.0	(4.0-5.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OGR	3.0		5	840	
			6.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OGR			6	874	
			7.0				7	822	
			8.0				8	792	
			8.0	BOB @ 8'					

Sample
@ - 2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number B-6
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ DD/ YY 4 DD/ 22 YY 11	MM/ DD/ YY 4 DD/ 22 YY 11	Geoprobe
Start Time: 1447	End Time: 1459	Well Name N/A	Static Water Level N/A	Borehole Diameter 4 1/2 inches
Project #: 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	GRAVEL AND (CA-6) GRAVEL SUBGRADE	2.9		1	1267	
			2.0	(1.0-4.0') UNSAT FILL BROWN-BLACK, F-C SAND, AND F-M GRAVEL, TRACE BRICK, TRACE GROUT, LOOSE, MOIST, NO ODOM			2	7333	
			3.0				3	26812	
			4.0				4	13973	
			5.0				5	2216	
4	8	GP	6.0	(4.0-5.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, WET, NO ODOM	3.0		6	1720	
			7.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			7	1539	
			8.0				8	1466	
			8.0	END C 8'					

Sample C-3

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 5-7	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe	
Firm: Del Mar		MM/ DD/ YY 4 DD/ 22 YY 11	MM/ DD/ YY 4 DD/ 22 YY 11		
Start Time: 1502	End Time: 1515	Well Name: N/A	Static Water Level: N/A	Feet BGS	Borehole Diameter: 1.40 inches
Project #: 60158985	County: Cook	Civil Town/City/Village: Chicago, IL			

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND (CA-6) GRAVEL SUBGRADE	0.0		1	1635	
			2.0	NO RECOVERABLE (COARSE COBBLE BLOCKED CORE)			2	11146	
			3.0				3	9914	
			4.0				4	2659	
4	8	GP	5.0	(4.0-5.0') Fill: Brown F-M Sand, Trace P Gravel, Loose Mort, no conc.	3.2		5	2180	
			6.0	(5.0-8.0') Brown native Sand, SW, F-M Sand, Trace P Gravel, Loose, mort, no conc.			6	3351	
			7.0				7	2048	
			8.0				8	2015	

Sample
@ 10' level

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number B-8
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD/25 YY 11	MM 4 DD/25 YY 11	Geoprobe
Start Time: 1308	End Time: 1407	Well Name N/A	Static Water Level 11 Feet BGS	Borehole Diameter 1.4 inches


Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.5		1	6274	REFUSAL @ 8' BORING OFFSET ← 5' (CONCRETE)
			2.0	(1.0-4.0') UNGRAV FILL: BROWN - BLACK, F-C SAND, AND F-M GRAVEL, GINGER GRAY, TRACT BRN, LOOSE, MOIST, NO ODOM			2	47984	
			3.0				3	118817	
			4.0				4	95449	
			5.0				5	60061	
4	8	GP	4.0	(4.0-6.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST TO WET, NO ODOM	1.9'		6	79865	
			6.0				7	113041	
			7.0				8	52543	
			8.0	(6.0-8.0') BROWN, FILL, SAND, F-M SAND, TRACT P GRAVEL, MOIST TO WET, NO ODOM			9	33159	
			9.0				10	14059	
8	12	GP	8.0	BROWN FILL SAND, F-M SAND, TRACT P GRAVEL, LOOSE, WET @ 11', NO ODOM, IRON STAINING	4.0		11	42064	
			9.0				12	4360	
			10.0						
			11.0						
			12.0						

Sg. p. 11
@ -3 + -11

BOB @ 12'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number B-9
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM/ 4 DD/ 25 YY 11	MM/ 4 DD/ 25 YY 11	
Start Time: 1413	End Time: 1935	Well Name N/A	Static Water Level 9' Feet BGS	Borehole Diameter 1.4 Inches

Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.2		1	1338	
			2.0	(1.0-4.0') VASCO FILL: BROWN-BLACK, FC SAND AND F-M GRAVEL, SOME BRICK, SOME CEMENT, LOOSE, MOIST, NO ODR			2	10870	
			3.0				3	13193	
			4.0				4	23730	
			5.0				5	40510	
4	8	GP	6.0	(4.0-5.0') SAND AS (1.0-4.0') INTERVAL, LOOSE MOIST, NO ODR	2.8		6	39237	
			7.0	(5.0-8.0') BROWN FILL SAND: F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR, IRON STAINING			7	60685	
			8.0				8	56196	
			9.0				9	31435	
			10.0	(8.0-9.0') BROWN FILL SAND, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR, IRON STAINING	3.3		10	8004	
			11.0				11	1319	
			12.0	(9.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO ODR			12	740	
				EOB @ 12'					

Sample @ -4' - 7'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese			Client Michael Reese		Boring Number B-10
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO			Date Drilling Started MM/4 DD/25 YY 11	Date Drilling Completed MM/4 DD/25 YY 11	Drilling Method: Geoprobe
Firm: Del Mar			Static Water Level Feet BGS		Borehole Diameter 1.40 Inches
Start Time: 1440	End Time: 1500	Well Name N/A			
Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL			

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-B GRAVEL SUBGRADE	1.5'		1	673	
			2.0	(1.0-4.0') CONCRETE (LITTLE RECOVERY) (JAMMED INSIDE OF LOG)			2	1703	
			3.0				3	1595	
			4.0				4	1763	
			5.0				5	2589	
4	8	GP	6.0	(4.0-8.0') LITTLE RECOVERY, URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, SOME BRICK, TRACE CINDER, LOOSE, MOIST, NO COAR	1.5'		6	4894	
			7.0				7	1645	
			8.0				8	1272	
			9.0				9	911	
			10.0				10	718	
8	12	GA	11.0	FILL: BROWN SAND, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO COAR, IRON STAINING	2.5		11	706	
			12.0	(9.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET C 9', NO COAR			12	649	
				EOB @ 12'					no sample (poor recovery)

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number B-11
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/ DD/ YY 4 DD/ 25 YY 11	Date Drilling Completed MM/ DD/ YY 4 DD/ 25 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1804	End Time: 1513	Well Name N/A	Static Water Level N/A Feet BGS
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Approx AND GA-6 GRAVEL, SUBGRAND	2.5		1	23904	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRN, SINE CLAYOR, LOOSE, MOIST, NO ODR			2	168112	
			3.0				3	30308	
			4.0				4	7498	
			5.0				5	2657	
4	8	GP	6.0	(4.0-5.0') BROWN FILL SAND, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR	2.9		6	1794	
			7.0	(5.0-8.0') BROWN NATIVE SAND, SW. F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			7	1509	
			8.0				8	1408	
			12.0	EOB @ 8'					

5 samples @ -2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number BS-12
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ DD/ YY 4 DD/ 25 YY 11	MM/ DD/ YY 4 DD/ 25 YY 11	Geoprobe
Start Time: 1517	End Time: 1530	Well Name NIA	Static Water Level N/A Feet BGS	Borehole Diameter 2.4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.6		1	1218	BORING OUTPOST 15' (TRAFFIC LANE)
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-M SAND AND F-M GRAVEL, LOOSE, MOIST, NO OGM, TRACE BAKEN, TRACE CEMENT			2	10462	
			3.0				3	5551	
			4.0				4	1774	
4	8	GP	5.0	(4.0-5.0') BROWN FILL SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OGM	2.8		5	1582	✓
			6.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OGM			6	1452	
			7.0				7	1386	
			8.0				8	1378	
			8.0	EOB @ 8'					Scraped @ - 2
			9.0						
			10.0						
			11.0						
			12.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION



Project Name Michael Reese		Client Michael Reese		Boring Number B-13
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/ DD/ YY MM/ 4 DD/ 28 YY 	Date Drilling Completed MM/ DD/ YY MM/ 4 DD/ 28 YY 	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1035	End Time: 1050	Well Name N/A	Static Water Level N/A Feet BGS
Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE,			1	553	
			2.0	(1.0-4.0') UNGRAV FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE GINGER, LOOSE, MOIST, NO ODOR			2	4241	
			3.0				3	2743	
			4.0				4	3839	
4	8	GP	5.0	(4.0-5.0') SAME AS (1.0-4.0') LATERAL, LOOSE, MOIST, NO ODOR	2.8		5	2045	
			6.0	(5.0-8.0') BROWN NATIVE SAND, SN, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR			6	809	
			7.0				7	695	
			8.0				8	709	
			8.0	EOB @ 8'					

Sample @ none

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number B-14
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0858	End Time: 0914	Well Name: N/A	Static Water Level: 10' Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	1.0	(0-1') ASPHALT AND CA-6 GRAVEL SUBGRADE	2.2		1	715	
			2.0	(1.0-4.0') UNSAT. FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE BAKED, SOME CLUSTERS, LOOSE, MOIST, NO ODOM			2	2014	
			3.0				3	2053	
			4.0				4	1777	
			5.0				5	669	
			6.0				6	568	
4	8	GP	7.0	(4.0-8.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO ODOM, LITTLE RECOVERY	0.7		7	487	
			8.0				8	577	
			9.0				9	638	
			10.0				10	700	
			11.0				11	646	
			12.0				12	610	
8	12	GP		(8.0-12.0') BROWN NATIVE SAND, SW, FUM SAND, TRACE F GRAVEL, LOOSE, WET @ 10', NO ODOM	3.2				

59-PAV
C-3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number C-2
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 5 DD/ 2 YY11	MM 5 DD/ 2 YY 11	Geoprobe
Start Time: 1327	End Time: 1339	Well Name: N/A	Static Water Level: N/A	Borehole Diameter: 1.4 Inches
Project #: 60158985	County: Cook	Civil Town/City/Village: Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	3.0		1	463	
			2.0	(1.0-4.0') URSAN FILL: BROWN-BLOCK, F-G SAND AND F-M GRAVEL, LOOSE, MOIST, NO ODOR			2	744	
			3.0				3	642	
			4.0				4	621	
			5.0				5	661	
4	8	GP	6.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRAC F GRAVEL, LOOSE, MOIST, NO ODOR	3.2		6	648	
			7.0				7	740	
			8.0				8	649	
			9.0	EOG @ 8'					
			10.0						
			11.0						
			12.0						

*Sampled
@ 17026*

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: 	Firm: AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number C-4
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD/25 YY 11	Date Drilling Completed MM 4 DD/25 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1249	End Time: 1300	Well Name: N/A	Static Water Level N/A Feet BGS
Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	3.0		1	639	
			2.0	(1.0-4.0') UNSAT FILL: BROWN-BLACK, F-F SAND AND F-M GRAVEL, BULK HEAVY, TRACE CINDER, LOOSE, MOIST, NO ODOM			2	1867	
			3.0				3	1504	
			4.0				4	1294	
			5.0	(4.0-5.0') SAME AS (1.0-4.0') UNSAT, BULK HEAVY, LOOSE, MOIST, NO ODOM	3.0		5	1136	
4	8	GP	6.0	(5.0-8.0') BROWN MEDIUM SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			6	803	
			7.0				7	779	
			8.0				8	757	
			9.0	LOG @ 8'					
			10.0						
			11.0						
			12.0						

Sample
@ 10.00 ft
=

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number C-5	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/ YDD/ 25 YY 11		Date Drilling Completed MM/ 4 DD/ 25 YY 11	
Firm: Del Mar		Static Water Level N/A Feet BGS		Drilling Method Geoprobe	
Start Time: 1141		End Time: 1153		Borehole Diameter 4.0 Inches	
Well Name N/A		Civil Town/City/Village Chicago, IL			

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)	Sample Method					Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SURGRADE (1.0-4.0') VARIOUS FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, SOME BRNCH. TRACE CLAY, LOOSE, MOIST, NO OGR	3.0		1	615	
			2.0		2	1812			
			3.0		3	840			
			4.0		4	614			
			5.0		5	787			
4	8	GP	6.0	(4.0-5.0') BROWN SAND FILL F-M SAND, TRACE F GRAVEL, SOME CLAY, LOOSE, MOIST, NO OGR			6	831	
			7.0		7	907			
			8.0		8	717			
			9.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OGR					
			10.0						
			11.0						
			12.0						

Sayed
@ noon

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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AECOM

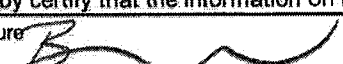
Project Name Michael Reese		Client Michael Reese		Boring Number C-6
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM 4DD/ 25YY 4	MM 4DD/ 25YY 11	
Start Time: 1126	End Time: 1137	Well Name N/A	Static Water Level N/A Feet BGS	Borehole Diameter 4.0 inches

Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUGGEST	3.1		1	1193	
			2.0	(1.0-4.0') UNSAT FILL BROWN-BLACK, F-M SAND AND F-M GRAVEL, TRACE BRNCH, TRACE CHALK, LOOSE, MOIST, NO ODR			2	11394	
			3.0				3	10279	
			4.0				4	5842	
			5.0				5	3417	
4	8	GP	4.0	(4.0-5.0') SAND FILL: F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR IRON STAINING	3.0		6	3225	
			5.0				7	2303	
			6.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			8	1844	
			8.0	END @ 8'					

sample
C-2

I hereby certify that the information on this form is true and correct to the best of my knowledge.


Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number C-7
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Jana Last Name: SOTO		Date Drilling Started MM/ DD/ 25YY 11	Date Drilling Completed MM/ DD/ 25YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1053	End Time: 1122	Well Name N/A	Static Water Level 9'
Project # 60158985		County Cook	Civil Town/City/or Village Chicago, IL	

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.8		1	1380	BORING OFFSET ↑ 5' (GAS VALVE) OBSTRUCTION @ 4' (GAS CAESSE)
			2.0	(1.0-4.0') URBAN FILL F-F SAND AND F-M GRAVEL, TRACE BRICK, TRACE CINCH, LOOSE, MOIST, NO ODN			2	16737	
			3.0				3	15883	
			4.0				4	6756	
4	8	GP	5.0	(4.0-8.0') SAME AS (1.0-4.0') URBAN FILL, LOOSE, MOIST, NO ODN, LITTLE RECOVERY	1.4		5	6758	
			6.0				6	3427	
			7.0				7	2722	
			8.0				8	2326	
			9.0				9	1165	
8	12	GP	10.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE R GRAVEL, LOOSE, WGT @ 9', NO ODN	2.9		10	982	
			11.0				11	614	
			12.0	EOB @ 12'			12	669	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

Sampling
P-3'


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number C-8
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JLH Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM 4DD/25YH	MM 4DD/25YH	
Start Time: 1030	End Time: 1046	Well Name N/A	Static Water Level 9' Feet BGS	Borehole Diameter 1.40 inches

Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.8		1	1388	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLASH, F-S SAND AND F-M GRAVEL, TRACE BRICK, TRACE BINDER, LOOSE, MOIST, NO ODOM			2	8662	
			3.0				3	7492	
			4.0				4	3586	
			5.0				5	2477	
			6.0				6	2820	
4	8	GP	7.0	NO RECOVERY, SAMPLE LINER NOT INSERTED INTO STEEL ROD	0.0		7	2453	
			8.0				8	1817	
			9.0				9	357	
			10.0				10	728	
			11.0				11	681	
8	12	GP	12.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND AND TRACE F GRAVEL, LOOSE, WET @ 9'; NO ODOM	2.3		12	607	
				BOB @ 12'					sampled @ - 2

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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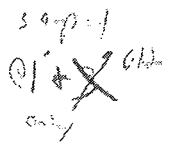
SOIL BORING LOG INFORMATION

AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number C-9
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/ DD/ YY 4 21 11	Date Drilling Completed MM/ DD/ YY 4 21 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0935	End Time: 0946	Wall Name N/A	Static Water Level 9' Feet BGS
Borehole Diameter 4 inches				

Project # 60158985	County Cook	Civil Town/City/Or Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	(0-0.5') TOPSOIL, Silty Clay, Black, Trace C SAND, Trace F GRAVEL, SOFT, MOIST, NO OOR			1	7671	
			2.0	(0.5-4.0') VARIOUS FILL; LITTLE RECOVERY, BROWN-BLACK, F-C SAND AND F GRAVEL, TRACE BRICK, TRACE CURB, LOOSE, MOIST, NO OOR			2	6485	
			3.0				3	13821	
			4.0				4	11969	
			5.0				5	5382	
4	8	GP	6.0	(4.0-6.0') FILL, BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, IRON STAINING, NO OOR			6	2142	
			7.0				7	1796	
			8.0				8	1525	
			9.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOR			9	1038	
			10.0				10	680	
			11.0				11	626	
8	12	GP	12.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOT @ 9', NO OOR			12	524	
				EOB @ 12'					

397-1

 only

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number C-10
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/4 DD/20 YY	Date Drilling Completed MM/4 DD/20 YY	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1444	End Time: 1519	Well Name N/A	Static Water Level 9' Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.1		1	1372	BORING OFFSET ↑ 2' OBSTRUCTION @ 6' MOVED 2' ↑
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK F-C SAND, AND F-M GRAVEL, TRACE CINDER, LOOSE, MOIST, NO ODR			2	13,296	
			3.0				3	13,471	
			4.0				4	14,275	
			5.0				5	17,628	
4	8	GP	4.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR, IRON STAINING	3.1		6	17,481	
			5.0				7	13963	
			6.0				8	12949	
			7.0				9	5723	
			8.0				10	1984	
			9.0				11	2942	
8	12	GP	8.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO ODR	3.3		12	1939	
			9.0						SAMPLED @ 5' + 7'
			10.0						
			11.0						
			12.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number C-11
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD 20 YY 11	Date Drilling Completed MM 4 DD 20 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1400	End Time: 1417	Well Name N/A	Static Water Level 9' Feet BGS
Borehole Diameter 4 1/4 inches				

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL, SUBGRADE	2.5		1	7305	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, SOME CINDERS, LOOSE, MOIST, NO OOR			2	7560	
			3.0				3	3328	
			4.0				4	1231	
			5.0				5	844	
4	8	GP	6.0	FILL BROWN, F-M SAND, TRACE F GRAVEL, TRACE BRICK, LOOSE, MOIST, NO OOR	1.7		6	837	
			7.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOR			7	755	
			8.0				8	831	
			9.0				9	696	
			10.0				10	642	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, UBT @ 9', NO OOR	3.0		11	664	
			12.0				12	577	

Sayed
①-2

EOB @ 12'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number C-12
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/4 DD/18 YY11	Date Drilling Completed MM/4 DD/18 YY11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1040	End Time: 1050	Well Name: N/A	Stallo/Water Level: 10 Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.3		1	1244	
			2.0	(1.0 - 4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, CINNEN HEAVY, LOOSE, MOIST, NO ODDN			2	5768	
			3.0				3	3790	
			4.0				4	2075	
			5.0				5	1208	
			6.0				6	1091	
4	8	GP	7.0	(4.0 - 8.0') URBAN FILL: SAME AS (1.0 - 4.0') INTERVAL, TRACE CINNENS, LOOSE, MOIST, NO ODDN	2.1		7	882	
			8.0				8	1154	
			9.0				9	782	
			10.0				10	679	
8	12	GP	11.0	(8.0' - 9.0') SAME AS 1.0 - 8.0' INTERVAL, LOOSE, MOIST, NO ODDN	2.7		11	664	
			12.0				(9.0 - 12.0') BROWN NATIVE SAND, SW, R-M SAND, TRACE F GRAVEL, LOOSE, MOIST @ 10', NO ODDN EOD @ 12'		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: 

Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061


SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number C-13
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Seto		Date Drilling Started MM 4 DD 18 YY 11	Date Drilling Completed MM 4 DD 18 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1020	End Time: 1035	Well Name N/A	Static Water Level 10 Feet BGS
Project # 60158985		County Cook	City/Town/City/Or Village Chicago, IL	

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.4		1	864	
			2.0	(1.0-4.0') VEGAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO ODOM			2	4145	
			3.0				3	1693	
			4.0				4	900	
			5.0				5	824	
4	8	GP	4.0	(4.0-5.0') SAND AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO ODOM	2.3		6	718	
			5.0				7	695	
			6.0	(5.0'-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			8	703	
			7.0				9	690	
			8.0				10	680	
8	12	GP	8.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET C 10', NO ODOM	3.0		11	686	
			9.0				12	587	
			10.0						Sampled @ -2'
			11.0						
			12.0	EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number C-14
Boring Drilled By: Name of crew chief (first, last) and Firm. First Name: John Last Name: Soto		Date Drilling Started MM/4 DD/18 YY 11	Date Drilling Completed MM/4 DD/18 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0950	End Time: 1010	Well Name N/A	Static Water Level 10 Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.3'		1	1260	
			2.0	(1.0'-4.0') UNOAS FILL: BROWN-BLACK, F-C SAND AND F-M, GRAVEL, TRACE BRICK, TRACE LINDEN, LOOSE, MOIST, NO ODR			2	1803	
			3.0				3	719	
			4.0				4	633	
			5.0				5	661	
4	8	GP	6.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR	2.8		6	699	
			7.0				7	689	
			8.0				8	729	
			9.0				9	656	
			10.0				10	607	
8	12	GP	11.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 10', NO ODR	3.1		11	666	
			12.0				12	545	

sampled
C-2

EOB @ 12'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

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750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number D-3	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method	
Firm: Del Mar		MM 4 DD/ 25 YY 11	MM 4 DD/ 25 YY 11	Geoprobe	
Start Time: 0955	End Time: 1007	Well Name N/A	Static Water Level N/A	Borehole Diameter 4.4 inches	
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL		

Sample		Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)					Sample Method	Depth	CPM
0	4	GP	CONCRETE AND CA-6 GRAVEL SURGRADE	2.6				
		1.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND, AND F-M GRAVEL, TRACE BRICK, TRACE GIBBSON, LOOSE, MOIST, NO OGRN	3.0'		1	950	
		2.0				2	1772	
		3.0				3	669	
		4.0				4	625	
		5.0				5	723	
4	8	GP	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND AND TRACE F GRAVEL, LOOSE, MOIST, NO OGRN					
		6.0				6	671	
		7.0				7	801	
		8.0				8	647	
		8.0	EOB @ 8'					

Samples @ base

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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Project Name Michael Reese		Client Michael Reese		Boring Number D-4
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM 4DD/25YY 11	MM 4DD/25YY 11	
Start Time: 0927	End Time: 0942	Well Name: N/A	Static Water Level Feet BGS	Borehole Diameter 74 inches

Project #: 60158985	County: Cook	Civil Town/City/or Village: Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL SUBGRADE	3.1		1	1711	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CHALK, LOOSE, MOIST, NO OIL			2	2224	
			3.0				3	957	
			4.0				4	764	
			5.0				5	702	
4	8	GD	6.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OIL	3.1		6	708	
			7.0				7	721	
			8.0				8	674	
			9.0						
			10.0						
			11.0						
			12.0						

Samples @ - 2

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number D-5
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SATO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM/ 4 DD/ 25 YY 11	MM/ 4 DD/ 25 YY 11	
Start Time: 0907	End Time: 0920	Well Name N/A	Static Water Level N/A Feet BGS	Borehole Diameter 1.4 Inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL, SURFACE	2.9		1	4356	
			2.0	(1.0-4.0') UNSOIL FILL BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, SINGULAR, LOW MOIST, NO ODOM			2	12217	
			3.0				3	1738	
			4.0				4	972	
			5.0				5	824	
4	8	GP	6.0	(4.0-5.0') FINE SAND: BROWN F-M SAND, TRACE F GRAVEL, LOW MOIST, NO ODOM, LOW STAINING	3.2		6	845	
			7.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOW MOIST, NO ODOM			7	946	
			8.0				8	773	
			9.0						
			10.0						
			11.0						
			12.0						

Sampled @ -2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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Project Name Michael Reese		Client Michael Reese		Boring Number D-6	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOYD Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe	
Firm: Del Mar		MW 4 DD/ 25YY 11 MW 4 DD/ 25YY 11			
Start Time: 0850	End Time: 0859	Well Name N/A	Static Water Level N/A	Feet BGS	Borehole Diameter 2.4 inches

Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL
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Sample	Downhole Rad. Measurements (FT)									
	From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Depth	CPM	Comments
	0	4	GP							
				2.0	(1.0-4.0') UNDES FILL: BROWN-BLACK, F-C SAND, AND F-M GRAVEL, TRACE BRICK, TRACE GROUND LUMPS, MOIST, NO ODOM			2	22346	
				3.0				3	11713	
				4.0				4	2223	
	4	8	GP	5.0	(4.0-5.0') FILL SAND: BROWN F-M SAND, TRACE F GRAVEL, LUMPY, MOIST, NO ODOM, SAND STRAINING	3.1		5	1479	
				6.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			6	1504	
				7.0				7	1516	
				8.0				8	1152	
				8.0	EOB @ 8'					

59-110
P-2

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number D-7
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD/ 25 YY U	Date Drilling Completed MM 4 DD/ 25 YY U	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0848	End Time: 0828	Well Name N/A	Static Water Level N/A Feet BGS
Project # 60158985		County Cook	Civil Town/City/or Village Chicago, IL	
Borehole Diameter 4.0 inches				

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL, SUBGRADE	2.8		1	86279	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND, RM GRAVEL, TRACE BRICK, TRACE GLASS, LOOSE, MOIST, NO ODOM			2	63037	
			3.0				3	9292	
			4.0				4	1883	
4	8	GP	4.0	(4.0-5.0') FILL SAND: BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM, FINE STRINGS	3.2		5	1490	
			5.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			6	1486	
			6.0				7	1454	
			7.0				8	1288	
			8.0	END @ 8'					

Sampled
@ 1' + 6"

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number D-8
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHNS Last Name: SOTO		Date Drilling Started MM/4 DD/21 YY11	Date Drilling Completed MM/4 DD/21 YY11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0904	End Time: 0924	Well Name: N/A	Static Water Level: 8' Feet BGS
Project #: 60158985		County: Cook	Civil Town/City/Village: Chicago, IL	

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.2		1	5449	REVERSAL (2')
			2.0	(1.0-4.0') BROWN-BLACK UNSAT FILL F-C SAND AND F GRAVEL, CL-06L HEAVY, LOOSE, MOIST TO WET, NO ROOTS			2	13036	SOIL BORING OFFSET: ↓ 6', ← 5'
			3.0				3	3620	
			4.0				4	2500	
4	8	GP	4.0	(4.0-8.0') FILL:	1.8'		5	2281	
			5.0	BROWN-BLACK F-M SAND, TRACE F GRAVEL, TRACE CL-06L, LOOSE, MOIST, NO ROOTS			6	2269	
			6.0				7	2091	
			7.0				8	1293	
			8.0				9	619	
8	12	GP	8.0	(8.0-12.0')	3.0		10	622	
			9.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, WET @ 8', LOOSE, NO ROOTS			11	596	
			10.0				12	551	
			11.0						Sampled @ -2'
			12.0	E03 @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number D-10
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started MM/4 DD/18 YY 11	Date Drilling Completed MM/4 DD/18 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1315	End Time: 1327	Well Name: N/A	Static Water Level: 9' Feet BGS
Project #: 60158985	County: Cook	Civil Town/City/Village: Chicago, IL		

Sample		Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)					Sample Method	Depth	CPM
0	4	GP	TOP SOIL: BLACK, SILTY CLAY, TRACE S AND, TRACE F GRAVEL, SOFT, MOIST	2.4		1	9515	Soil Boring OFF SET → 4' (ELECTRICAL UTILITY)
			(1.0-4.0') UNSAT FILL BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICH, TRACE CINDER, LOOSE, MOIST, NO OODN			2	21547	
						3	14572	
						4	13316	
						5	16461	
4	8	GP	4.0-7.0' UNSAT FILL: SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OODN	2.3		6	12476	
						7	6754	
						8	5591	
			(7.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODN			9	5509	
						10	2391	
8	12	GP	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODN, (WET C 9')	3.0		11	757	
						12	661	
			EOB @ 12'					sampled @ 2'-5"

I hereby certify that the information on this form is true and correct to the best of my knowledge:

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number D-11
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JUN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ 4 DD/ 18 YY 11	MM/ 4 DD/ 18 YY 11	Geoprobe
Start Time: 1252	End Time: 1304	Well Name N/A	Static Water Level 9'	Borehole Diameter: 4.4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	TOP SOIL: Black silty clay, some organics, trace fine sand, trace fine gravel, moist, no odor, soft	1.8		1	9200	
			2.0	(1.0-4.0') Urban Fill: Brown - black, fine sand and fine gravel, trace bitum, trace silica, loose, moist, no odor			2	17725	
			3.0				3	15671	
			4.0				4	10540	
			5.0				5	9638	
4	8	GP	6.0	(4.0-7.0') Fill: Brown fine sand, trace fine gravel, loose, moist, no odor, black staining	2.2		6	5273	
			7.0				7	5700	
			8.0				8	7008	
			9.0				9	2831	
			10.0	(7.0-8.0') Brown native sand, SW, fine sand, trace fine gravel, loose, moist, no odor			10	1172	
8	12	GP	11.0		3.0		11	694	
			12.0	(9.0-12.0') Brown native sand, SW, fine sand, trace fine gravel, loose, wet @ 9', no odor			12	589	
				ROB @ 12'					Sampled 0-20-8

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

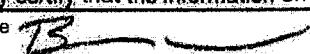
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number D-12	
Boring Drilled By: Name of crew chief (first, last) and Firm: First Name: JOHN Last Name: SOTO		Date Drilling Started: MM/4 DD/18 YY11	Date Drilling Completed: MM/4 DD/18 YY 11	Drilling Method: Geoprobe	
Start Time: 1127	End Time: 1140	Well Name: NIA	Static Water Level: 10 Feet BGS	Borehole Diameter: 4.0 Inches	

Project # 60158985	County Cook	Civil Town/City or Village: Chicago, IL
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Sample	Sample		Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (PT)		
	From (ft)	To (ft)					Method	Depth	CPM
	0	4	GP	ASPHALT AND GRAVEL SUBGRADE CA-6	2.6		1	833	
				10-4.0' URBAN FILL: BROWN-BLACK, F-C SAND AND FINE GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO OOL			2	2878	
							3	1552	
							4	1330	
							5	1365	
	4	8	GP	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOL	3.0		6	1463	
							7	1532	
							8	1551	
							9	1211	
							10	691	
							11	702	
	8	12	GP	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET C OOL, NO OOL	3.0		12	626	
									sampled @ -2'
				EOO @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

SOIL BORING LOG INFORMATION



Project Name Michael Reese		Client Michael Reese		Boring Number D-13
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD 18 YY 11	Date Drilling Completed MM 4 DD 18 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1113	End Time: 1125	Well Name: N/A	Static Water Level: 1.0 Feet BGS
Project # 60158985	County Cook	City/Town/City/Or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/ID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.5'		1	903	
			2.0	(1.0-4.0') URBAN FILL			2	1888	
			3.0	BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO ODR			3	751	
			4.0				4	709	
			5.0				5	664	
4	8	Ge	6.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR	3.0		6	690	
			7.0				7	687	
			8.0				8	695	
			9.0				9	682	
			10.0				10	667	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 10', NO ODR	3.1		11	683	
			12.0				12	586	

Sampled @ -2'

EOB @ 12'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number D-14
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD 18 YY 11	Date Drilling Completed MM 4 DD 18 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1058	End Time: 1110	Well Name: N/A	Static Water Level 2 Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUB GRADE	2.5			597	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO OODR				1487	
			3.0					746	
			4.0					604	
			5.0					658	
4	8	GP	6.0	URBAN FILL: (4.0'-5.0') INTERVAL SAME AS (1.0-4.0') LOOSE, MOIST, NO OODR	3.0			727	
			7.0	(5.0'-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE R GRAVEL, LOOSE, MOIST, NO OODR				722	
			8.0					684	
			9.0					686	
			10.0					667	
8	12	GP	11.0	(8.0'-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE R GRAVEL, LOOSE, LET @ 10', NO OODR	3.1			630	
			12.0					592	

septic @
none

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION


COM

Reese		Client Michael Reese		Boring Number E-3	
By: Name of crew chief (first, last) and Firm JGMN Last Name: Soto		Date Drilling Started		Date Drilling Completed	
al Mar		MM/ 4 DD/ 26 YY V		MM/ 4 DD/ 26 YY V	
End Time: 10:14 10:25		Well Name: N/A		Static Water Level: N/A	
County: Cook		Civil Town/City/Village: Chicago, IL		Borehole Diameter: 4.4 inches	
60158985		Feet BGS			

To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
						Depth	CPM	Comments
0	GP	1.0	Black Silty Clay to Soil, Fine Grained, Soft, Moist, No OOCN	3.2		1	1535	
		2.0	(1.0-4.0') UNDRY FINE: SILTY-BLACK F-C SAND AND F-M GRAVEL, BRICK HEAVY, TRACE COALS, LOOSE, MOIST, NO OOCN			2	1783	
		3.0				3	2330	
		4.0				4	1046	
4	GP	5.0	(4.0-5.0') SAME AS (1.0-4.0') LATERAL. LOOSE, MOIST, NO OOCN	3.3		5	653	
		6.0	(5.0-6.0') BROWN FINE SAND, SW, F-M SAND, TRACE F GRAVEL, FINE SPINDLE, LOOSE, MOIST, NO OOCN			6	672	
		7.0	(6.0-8.0') BROWN MEDIUM SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOCN			7	657	
		8.0				8	777	
		9.0	COB C 8'					
		10.0						
		11.0						
		12.0						

Sample 0-3

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number E-4	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: STO		Date Drilling Started	Date Drilling Completed	Drilling Method	
Firm: Del Mar		MM 4 DD/ 26 YY 11	MM 4 DD/ 26 YY 11	Geoprobe	
Start Time: 0957	End Time: 1007	Well Name N/A	Static Water Level	Borehole Diameter 4 1/2 inches	
Project # 60158985		County Cook	Civil Town/City/or Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	Black silty clay top soil, some organic, soft, moist, no odor	2.8		1	1687	
			2.0	(1.0-4.0') Urban Fill: Brown-Black, F-C sand and F-M gravel, trace brick, trace cinder, loose, moist, no odor			2	2430	
			3.0				3	3247	
			4.0				4	2165	
4	8	GP	5.0	(4.0-5.5') same as (1.0-4.0') interval, loose, moist, no odor	3.0		5	2020	
			6.0	(5.5-8.0') Brown native sand, SW, F-M sand, trace F gravel, loose, moist, no odor			6	973	
			7.0				7	787	
			8.0				8	764	
			8.0	EOB @ 8'					

Samples @ -3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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Project Name Michael Reese		Client Michael Reese		Boring Number E-5
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Sto		Date Drilling Started MM 4 DD 26 YY 11	Date Drilling Completed MM 4 DD 26 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0928	End Time: 0943	Well Name N/A	Static Water Level 10' Feet BGS
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	
Borehole Diameter 4 inches				

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Black Silty Clay Topsoil, Some Organics, Soft, Moist, No odor	3.0		1	1358	
			2.0	(1.0-4.0') URBAN FILL: Brown-Black, F-C SAND AND F-M GRAVEL, Trace BRICK, Trace CLONK, Loose, Moist, No odor			2	1138	
			3.0				3	5648	
			4.0				4	3632	
4	8	GP	5.0	(4.0-7.0') URBAN FILL: SAME AS (1.0-4.0') INTERVAL, Loose, Moist, No odor	2.9		5	1741	
			6.0				6	1058	
			7.0				7	782	
			8.0	(7.0-8.0') BROWN RILL SAND, SW, FINE SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR, IRON STAINING			8	705	
			9.0				9	746	
8	12	GP	10.0	(8.0-12.0') BROWN NATIVE SAND, SW, FINE SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR	3.2		10	633	
			11.0				11	567	
			12.0				12	542	
				EOB @ 12'			Samples @ -3'		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number E-6
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/4 DD/26 YY 11	Date Drilling Completed MM/4 DD/26 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0855	End Time: 0912	Well Name N/A	Static Water Level 12 Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	Black Topsoil, Silty Clay, Some organic, soft, moist, no odor	2.5		1	1043	
			2.0	(1.0-4.0') Urban Fill: Brown-Black, F-C Sand and F-M Gravel, Trace Brick, Trace Cinder, Low, moist, no odor			2	1278	
			3.0				3	1251	
			4.0				4	6303	
4	8	GP	5.0	LITTLE RECOVERY, SAME AS (1.0-4.0') INTERVAL, LOW, MOIST, NO ODOR	0.4		5	8507	
			6.0				6	3100	
			7.0				7	1051	
			8.0				8	1198	
8	12	GP	9.0	(8.0-12.0) Brown Native Sand, SW, F-M Sand, Trace F Gravel, w/c 12', Low, no odor	0.9'		9	1036	
			10.0				10	802	
			11.0				11	540	
			12.0				12	546	sample @ none (no recovery) @ -5' (A)

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number E-7
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ 4 DD/ 26 YY 11	MM/ 4 DD/ 26 YY 11	Geoprobe
Start Time: 0835	End Time: 0845	Well Name N/A	Static Water Level N/A Feet BGS	Borehole Diameter 4 inches

Project #: 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	SP	1.0	(0-1') Brown TOPSOIL: Silty Clay, Some F-m Sands, Some ORGANICS, Trace F Gravel, SOFT, NO OODN	2.8		1	2716	BORING OFFSET ← 5" (PENCE)
			2.0	(1.0-4.0') Urban Fill: Brown-Black, F-m Sand, AND F Gravel, BRICK HEAVY, Trace GINGER, LOOSE, MOIST, NO OODN			2	3582	
			3.0				3	2648	
			4.0				4	1331	
4	8	GP	4.0	(1.0-4.5') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OODN	2.9		5	1252	
			5.0	(4.5-8.0') Brown MEDIUM SAND, SW, F-m Sand, Trace F Gravel, LOOSE, MOIST, NO OODN			6	1237	
			6.0				7	1454	
			7.0				8	1103	
			8.0						
			9.0						
			10.0						
			11.0						
			12.0						

Scoping @ -2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number E-8
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/4 DD/20 YY/11	Date Drilling Completed MM/4 DD/20 YY/11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0950	End Time:	Well Name: N/A	Static Water Level Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.3		1	3466	By mobile
			1.0 - 2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-M SAND, SOME F GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST. NO ODR			2	1970	
			2.0 - 3.0				3	1599	
			3.0 - 4.0				4	1743	
			4.0 - 5.0				5	1773	
4	8	GP	4.0 - 5.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR	2.9		6	1770	
			5.0 - 6.0				7	1492	
			6.0 - 7.0				8	1236	
			7.0 - 8.0				9	1059	
			8.0 - 9.0				10	774	
			9.0 - 10.0				11	592	
			10.0 - 11.0				12	587	
8	12	GP	8.0 - 9.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 8', NO ODR	3.2				sampled @ -1'
			9.0 - 10.0						
			10.0 - 11.0						
			11.0 - 12.0						
			12.0	EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

ME-1004


SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number E-9
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM 4 DD 20 YY 11	MM 4 DD 20 YY 11	
Start Time: 1008	End Time: 1021	Well Name NIA	Static Water Level 8' Feet BGS	Borehole Diameter 4 inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0 - 4.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	3.0		1	2685	
			4.0 - 8.0	(1.0-4.0') URBAN FILL BROWN-BLACK F-C SAND AND F-GRAVEL, TRACE BRICK, SOME GIBBER, LOOSE, MOIST, NO ODOR	3.0		2	2026	
			8.0 - 12.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F-GRAVEL, LOOSE MOIST, NO ODOR	3.0		3	1111	
							4	1001	
							5	969	
4	8	GP	4.0 - 8.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F-GRAVEL, LOOSE MOIST, NO ODOR	3.0		6	1109	
			8.0 - 12.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F-GRAVEL, LOOSE, WFC @ 8', NO ODOR	3.0		7	935	
							8	732	
							9	603	
							10	628	
8	12	GP	8.0 - 12.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F-GRAVEL, LOOSE, WFC @ 8', NO ODOR	3.0		11	668	
							12	639	
				Base @ 12'					Sampled @ -1'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number E-10
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MMI 4 DD/ 20 YY 11	Date Drilling Completed MMI 4 DD/ 20 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1034	End Time: 1055	Well Name: N/A	Static Water Level 8' Feet BGS
Project # 60158985			County Cook	Civil Town/City/Village Chicago, IL

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.9		1	18089	
			2.0	(0.0-4.0') INTERVAL, URBAN FILL: BROWN-BLACK, F-M SAND, TRACE F GRAVEL, TRACE BAUX, TRACE CINDER, LOOSE, MOIST, NO ROOT			2	5215	
			3.0				3	4159	
			4.0				4	3792	
4	8	GP	5.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ROOT	3.5		5	2996	
			6.0				6	2474	
			7.0				7	1820	
			8.0				8	1385	
			9.0				9	792	
8	12	GP	10.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 8', NO ROOT	3.1		10	855	
			11.0				11	643	
			12.0				12	618	
				EOB @ 12'					sample @ -1'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number E-11	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started MM 4 DD 18 YY 11	Date Drilling Completed MM 4 DD 18 YY 11	Drilling Method Geoprobe	
Firm: Del Mar		Static Water Level 9' Feet BGS		Borehole Diameter 4" inches	
Start Time: 1335	End Time: 1347	Well Name: NA			

Project #: 60158985	County: Cook	City/Town/Village: Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	TOP SOIL: BLACK SILTY CLAY, TRACE C SAND, TRACE F GRAVEL, SOME ORGANICS, LOOSE, MOIST, NO OOL	2.7		1	19866	
			2.0	(1.0-4.0') BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRN, TRACE C IN SB, LOOSE, MOIST, NO OOL			2	11873	
			3.0				3	3068	
			4.0				4	3002	
			5.0				5	1787	
4	8	GP	6.0	(4.0-5.0') FINE BROWN F-M SAND, TRACE F GRAVEL, IRON STAINING, LOOSE, MOIST, NO OOL	2.1		6	1652	
			7.0				7	1420	
			8.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOL			8	1371	
			9.0				9	962	
			10.0				10	683	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, (WET @ 9') NO OOL	2.8		11	599	
			12.0	EOB @ 12'			12	639	Sampled @ -1'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number E-12
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SETO		Date Drilling Started MM/YY 4/08	Date Drilling Completed MM/YY 4/08	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1143	End Time: 1151	Well Name: N/A	Static Water Level: 1.0 Feet BGS
Project #: 60158985	County: Cook	City/Town/Village: Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CAL GRAVEL SUBGRADE	2.4		1	1857	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BLUM, TRACE CINCH, LOOSE, MOIST, NO ODOM			2	5345	
			3.0				3	4672	
			4.0				4	23961	
			5.0				5	230937	
4	8	GP	6.0	(4.0-7.0') FILL: BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM, BRICK DEBRIS, FLOW STAINING	2.8		6	59056	
			7.0				7	18570	
			8.0				8	6790	
			9.0				9	1578	
			10.0				10	4690	
			11.0	(7.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			11	782	
			12.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 10', NO ODOM	3.0		12	632	
				END @ 12'					sampler ①-2+5"

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061


SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number E-13
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD 19 YY 11	Date Drilling Completed MM 4 DD 19 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0828	End Time: 0842	Well Name N/A	Static Water Level 9' Feet BGS
Project # 60158985	County Cook	City/Town/City or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.5		1	845	
			2.0	1.0-4.0' URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, LOOSE, MOIST, NO OOL			2	1518	
			3.0				3	751	
			4.0				4	672	
			5.0				5	704	
4	8	GP	4.0	(4.0-5.0') FILL: BROWN F-M SAND, TRACE P GRAVEL, LOOSE, MOIST, NO OOL	3.0		6	730	
			5.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE P GRAVEL, LOOSE, MOIST, NO OOL			7	750	
			6.0				8	733	
			7.0				9	699	
			8.0				10	723	
8	12	GP	8.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE P GRAVEL, LOOSE, WET @ 9', NO OOL	3.2		11	677	
			9.0				12	537	Sampled @ none
			10.0						
			11.0						
			12.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number E-14
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ 4DD/ 19YY11	MM/ 4DD/ 19YY 11	Geoprobe
Start Time: 0845	End Time: 0855	Well Name: N/A	Static Water Level: 0' Feet BGS	Borehole Diameter: 2.4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND GRAVEL SUBGRADE	2.7		1	1675	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND, SOME F GRAVEL, TRACE BRN, TRACE C/OBEN, LOOSE, MOIST, NO OOLN			2	1941	
			3.0				3	850	
			4.0				4	608	
			5.0				5	736	
4	8	GP	6.0	(4.0-5.0') FILL: BROWN-BLACK, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOLN	2.9		6	711	
			7.0	(5.0-8.0') - BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOLN			7	698	
			8.0				8	652	
			9.0				9	634	
			10.0				10	657	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WGT C 9', NO OOLN	3.0		11	636	
			12.0				12	554	

Scrapped
@ north

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

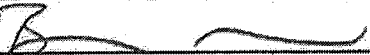
Project Name Michael Reese		Client Michael Reese		Boring Number F-3	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started	Date Drilling Completed		Drilling Method
Firm: Del Mar		MM/ 4 DD/26 YY 11	MM/ 4 DD/26 YY 11		Geoprobe
Start Time: 1037	End Time: 1048	Well Name N/A	Static Water Level N/A	Feet BGS	Borehole Diameter 4.4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 1.0	Black silty clay, some organics, soft, moist, no odor, top soil	2.7		1	1236	
			1.0 - 2.0	(1.0-4.0') Urban fill: Brown - black, F-C sand and F-M gravel, fairly heavy, tight clods, loose, moist, no odor			2	1349	
			2.0 - 3.0				3	1124	
			3.0 - 4.0				4	907	
			4.0 - 5.0				5	1018	
4	8	GP	4.0 - 6.0	(4.0-6.5') Same as (1.0-4.0') interval, fairly heavy, loose, moist, no odor	3.3		6	2209	
			6.0 - 7.0				7	832	
			7.0 - 8.0	(6.5-8.0') Browns native sand, SW, F-M sand, trace of gravel, loose, moist, no odor			8	759	
			8.0 - 8.0	EOB @ 8'					

Samples @ none

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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Project Name Michael Reese		Client Michael Reese		Boring Number F-4
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM/4 DD/26 YY 11	MM/4 DD/26 YY 11	
Start Time:	End Time:	Well Name	Static Water Level	Borehole Diameter:
1054	1125	N/A	N/A	2.4 Inches
Project #	County	Civil Town/City/Or Village		
60158985	Cook	Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	Black Silty CLAY TOPSOIL, SOME ORGANICS, DRY, MOIST, NO OODR	2.5		1	1281	REFUSAL @ 5' (LONG: FINE SAND)
			2.0	(1.0-4.0') VAGAN FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, LOOSE, MOIST, NO OODR, SANDS DRAIN, TRACE SUGAR			2	1390	
			3.0				3	1316	
			4.0				4	1023	
4	8	GP	5.0	(4.0-6.5') SAME AS (1.0-4.0') INTERMEDIATE BROWN HEAVY, LOOSE, MOIST, NO OODR	3.3		5	2246	SANDS -5'
			6.0				6	2141	
			7.0	(6.5-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODR			7	971	
			8.0				8	1015	
			12.0	EOB @ 8'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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Project Name Michael Reese		Client Michael Reese		Boring Number F-5
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM/ DD/ YY 11	MM/ DD/ YY 11	
Start Time: 1132	End Time: 1145	Well Name N/A	Static Water Level N/A	Borehole Diameter 2.4 Inches
		Feet BGS		

Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Brown Silty Clay To Silty, Some Chert, SORT, MOIST, NO OODR	2.8		1	1540	
			2.0	(1.0-4.0') UNDRY FINE BROWN-BLACK F-C SAND AND F-M GRAVEL, SOME BRICK, TRAC CINDER, LOOSE, MOIST, NO OODR			2	1305	
			3.0				3	902	
			4.0				4	695	
			5.0				5	751	
4	8	GP	6.0	(4.0-8.0') SAME AS (1.0-4.0')	3.1		6	964	
			7.0	UNDRY, LOOSE, MOIST, NO OODR			7	2454	
			8.0				8	2846	
			9.0				9	1255	
			10.0				10	1002	
8	12	GP	11.0	(8.0-10.0') SAME AS (1.0-8.0')	2.7		11	712	
			12.0	UNDRY, LOOSE, MOIST, NO OODR			12	771	
				(10.0-12.0') BROWN NATIVE SAND, SW F-M SAND, TRAC F GRAVEL, LOOSE, MOIST, NO OODR					Sample E-7

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number F-6
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD 28 YY 11	Date Drilling Completed MM 4 DD 28 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1140	End Time: 1212	Well Name N/A	Static Water Level: 13 Feet BGS
Project # 60158985		County Cook	Civil Town/City/Or Village Chicago, IL	

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Black Silty Clay, some organics, soft, moist, no odor	2.5		1	1741	BORING ELEVATION ~ 8'
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-F SAND, AND F-M GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO ODOR			2	1337	
			3.0				3	970	
			4.0				4	887	
			5.0				5	1203	
4	8	GP	5.0	(4.0-8.0') URBAN FILL: SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO ODOR	2.1		6	986	NO SAMPLE SCK 5/20/11 597 ft Q-X1
			6.0				7	981	
			7.0				8	3644	
			8.0				9	3818	
			9.0				10	1700	
8	12	GP	8.0	(8.0-11.5') SAME AS (1.0-8.0') INTERVAL, LOOSE, MOIST, NO ODOR	3.1		11	4412	
			9.0				12	3424	
			10.0				13	3235	
			11.0				14	3758	
			12.0				15	893	
			11.5	(11.5-12') BROWN NATIVE SAND, SW, FM SAND, TRACE, F GRAVEL, LOOSE, MOIST, NO ODOR			16	551	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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* 25' cable used

SOIL BORING LOG INFORMATION

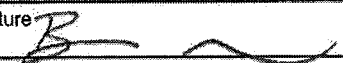
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 706
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started	Date Drilling Completed	
Firm: Del Mar		MM/ DD/ YY 11	MM/ DD/ YY 11	
Start Time: 1140	End Time: 1212	Well Name N/A	Static Water Level 13 Feet BGS	Drilling Method Geoprobe
Borehole Diameter 4 1/2 inches				

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)	Sample Method					Depth	CPM	Comments
12	16	GP	1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0	(12-16') Browns NATIVE SAND, SW. F-M SAND, TRACE F GRASS, LOOSE, WET c 13', NO OIL	1.5				
			16	EOB c 16'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number P-7
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Samuel Last Name: Soto		Date Drilling Started MM/ 4 DD/ 26 YY 11	Date Drilling Completed MM/ 4 DD/ 26 YY 11	
Firm: Del Mar		Drilling Method Geoprobe		
Start Time: 1154	End Time: 1210	Well Name N/A	Static Water Level 11' Feet BGS	Borehole Diameter 2.4 inches

Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Black Silty Clay Topsoil, Some Organic, Soft, moist, no odor	2.6		1	961	
			2.0	(1.0-4.0') Urban fill Brown - Black F.C Sand and F.M Gravel, Trace Blue, Tanus Green, Loose, moist, no odor			2	893	
			3.0				3	1390	
			4.0				4	1620	
4	8	GP	4.0	(4.0-8.0') Sand AS (1.0-4.0')	2.5		5	1508	
			5.0	intermediate, loose, moist, no odor			6	1253	
			6.0				7	1292	
			7.0				8	1099	
			8.0				9	1061	
8	12	GP	8.0	Brown native sand, SW, F-M sand, trace F gravel, loose, wet c 11', no odor	2.9'		10	872	
			9.0				11	673	
			10.0				12	592	
			11.0						
			12.0						

Soto
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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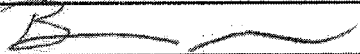
SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number F-8
Boring Drilled By, Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM/4 DD/21 YY11	MM/4 DD/21 YY11	
Start Time: x 1318	End Time: x 1330	Well Name NIA	Static Water Level 8'	Borehole Diameter 4 inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)	Sample Method					Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL SUBGRADE	2.6		1	21457	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-G SAND, TRACE BRN. TRACE F GRAVEL, SOME CLUSTERS, LOOSE, MOIST, NO OGRA			2	51705	
			3.0				3	13847	
			4.0				4	9127	
			5.0				5	5711	
4	8	GP	6.0	(4.0-6.0') FILL: BROWN F-M SAND, TRACE F GRAVEL, SOME STRAWS, LOOSE, MOIST, NO OGRA	2.7		6	3156	
			7.0				7	2514	
			8.0				8	1619	
			9.0	(6.0-8.0') BROWN NATIVE SAND, F-M SAND, SW, TRACE F GRAVEL, LOOSE, MOIST, NO OGRA			9	704	
			10.0				10	595	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, NOT C 8', NO OGRA			11	618	
			12.0				12	601	
				BOB e 12'					Sample @ - 2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061


SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number F-9
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JCHW Last Name: SOTO		Date Drilling Started MM/ DD/ YY MM 4 DD/ 20 YY 11	Date Drilling Completed MM/ DD/ YY MM 4 DD/ 20 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0913	End Time: 0923	Well Name: N/A	Static Water Level: 8' Feet BGS
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	

Sample From (ft)	Sample To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND GRAVEL (CA-6) SUBGRADE	2.9		1	34992	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK F-M SAND, AND F-M GRAVEL, TRACE BAUXITE, TRACE CLAY, LOOSE, MOIST, NO OODN			2	6160	
			3.0				3	1303	
			4.0				4	926	
			5.0				5	927	
4	8	GP	6.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODN	2.9		6	980	
			7.0				7	953	
			8.0				8	718	
			9.0				9	640	
			10.0				10	735	
			11.0				11	621	
8	12	GP	12.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODN, LAST C 8'	2.8		12	558	
				BOB CIV					594- E-5

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number F-10
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: SOH Last Name: SOFO		Date Drilling Started MM/4 DD/20 YY	Date Drilling Completed MM/4 DD/20 YY	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0928	End Time: 0940	Well Name: N/A	Static Water Level: 8' Feet BGS
Project # 60158985	County Cook	City/Town/City/Or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND GA-6 GRAVEL SUBGRADE	2.9		1	3420	
			2.0	(1.0-4.0') UNOAK FILL: BROWN-BLACK, F-M SAND AND F GRAVEL, TRACE BRNH, TRACE CINCOA, LOOSE, MOIST, NO OGRA			2	4611	
			3.0				3	1035	
			4.0				4	982	
4	8	GP	4.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OGRA	2.8		5	976	
			5.0				6	1104	
			6.0				7	1037	
			7.0				8	904	
			8.0				9	669	
8	12	GP	8.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WPT @ 8', NO OGRA	3.0		10	617	
			9.0				11	620	
			10.0				12	577	
			11.0						sample
			12.0						(10-2)

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number F-11
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JUN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD/ 18 Y 11	MM 4 DD/ 18 Y 11	Geoprobe
Start Time: 1410	End Time: 1423	Well Name: N/A	Static Water Level: 9' Feet BGS	Borehole Diameter 4.4 Inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample	From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
								Depth	CPM	Comments
	0	4	GP	1.0	TOP SOIL: BROWN, SILTY CLAY, TRACE C. SAND, TRACE F GRAVEL, SOFT, MOIST, NO OOL	2.3		1	8344	SOIL BOUND OFFSET ↑ 4', ← 5'; (ELECTRICAL UTILITY)
				2.0	(1.0-4.0)' URBAN FILL: BROWN-BLACK, F-C SAND, AND F-M GRAVEL, TRACE BLIGH, SOME CLUSTERS, LOOSE, MOIST, NO OOL			2	7128	
				3.0				3	2772	
				4.0				4	2174	
				5.0				5	2098	
	4	8	GP	5.0	4.0'-5.0', FILL: BROWN F-M SAND, TRACE F GRAVEL, IRON STAINED, LOOSE, MOIST, NO OOL	2.8		6	2063	
				6.0	(5.0-8.0)' BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOL			7	1781	
				7.0				8	1629	
				8.0				9	964	
				9.0				10	646	
	8	12	GP	8.0	(8.0-12.0)' BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO OOL	3.0		11	642	
				9.0				12	657	
				10.0						
				11.0						
				12.0	EOB @ 12'					

Sampled @ 9'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number F-12
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD 18 YY 11	MM 4 DD 18 YY 11	Geoprobe
Start Time: 1200	End Time: 1212	Well Name: N/A	Static Water Level 9' Feet BGS	Borehole Diameter 4.0 Inches


Project # 60158985	County Cook	Civil Town/City/Or Village: Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Asphalt and Gravel Slag	2.3		1	815	
			2.0	(1.0-4.0') Urban Fill: Brown-Black, F-C Sand and F-M Gravel, Trace Brnch, Trace Clasts, Loose, Moist, no odor			2	2165	
			3.0				3	1754	
			4.0				4	1648	
			5.0				5	1849	
4	8	GP	6.0	(4.0-8.0') Brown Native Sand, SW, F-M Sand, Trace F Gravel, Loose, Moist, no odor	3.2		6	1890	
			7.0				7	1855	
			8.0				8	1249	
			9.0				9	740	
			10.0				10	715	
8	12	GP	11.0	(8.0-12.0') Brown Native Sand, SW, F-M Sand, Trace F Gravel, Loose, WFT @ 9', no odor	3.0		11	621	
			12.0				12	554	

Scraped @ - 2'

EOB @ 12'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number E-13	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method	
Firm: Del Mar		MM 4 DD 18 YY 11	MM 4 DD 18 YY 11	Geoprobe	
Start Time 1525	End Time 1537	Well Name N/A	Static Water Level 9'	Borehole Diameter 24 Inches	
Project # 60158985	County Cook	City/Town/City or Village Chicago, IL			

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.6		1	760	
			2.0	(1.0-4.0) UNBANK FILL: BROWN-BLACK, F-C SAND AND TRACE F GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO ODOR			2	1481	
			3.0				3	937	
			4.0				4	1013	
			5.0				5	1128	
4	8	GP	6.0	(4.0-5.0') FILL: BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR	3.0'		6	1130	
			7.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR			7	1157	
			8.0				8	1111	
			9.0				9	849	
			10.0				10	663	
8	12	GP	11.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO ODOR	3.1		11	636	
			12.0				12	561	
EOD @ 12'									

sampled @ 10.0'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number G-4
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ 4 DD/ 26 YY 11	MM/ 4 DD/ 26 YY 11	Geoprobe
Start Time: 1430	End Time: 1440	Well Name N/A	Static Water Level N/A Feet BGS	Borehole Diameter: 4 inches

Project # 60158985	County Cook	Civil Town/City/Tor Village Chicago, IL
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Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)	Sample Method					Depth	CPM	Comments
0	4	GP	1.0	Black Silty Clay Topsoil, Some clumps, soft, moist, no odor	2.7		1	1426	
			2.0	(1.0-4.0') URBAN FILL: Brown-Black, F-C SAND AND F-M GRAVEL, Trace SILT, Trace CLAY, LOOSE, MOIST, NO ODOR			2	1036	
			3.0				3	1225	
			4.0				4	1091	
			5.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR	3.0		5	1013	
			6.0				6	876	
			7.0				7	607	
			8.0				8	573	
			8.0	EOBC 8'					5974 C-1

I hereby certify that the information on this form is true and correct to the best of my knowledge.


Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number G-5
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD/ 26 Y 11	Date Drilling Completed MM 4 DD/ 26 Y 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1410	End Time: 1425	Well Name N/A	Static Water Level 9' Feet BGS
Project # 60158985		County Cook	Civil Town/City/or Village Chicago, IL	

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Black Silty Clay Topsoil, Some Organics, Soft, moist, no odor	2.9		1	1203	
			2.0	(1.0-4.0') VARIOUS FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, SOME BRN, TRACE CWDR, LOOSE, MOIST, NO ODOR			2	1453	
			3.0				3	1118	
			4.0				4	1042	
4	8	GP	5.0	(4.0-8.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO ODOR	2.6		5	1192	
			6.0				6	1385	
			7.0				7	1280	
			8.0				8	1497	
			9.0				9	1137	
8	12	GP	10.0	(8.0-8.5') SAME AS (1.0-8.0') INTERVAL, LOOSE, MOIST TO WET, NO ODOR	2.1		10	693	
			11.0	(8.5'-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, WET @ 9', NO ODOR			11	567	
			12.0				12	578	Sampled Cores

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number G-6	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe	
Firm: Del Mar	MM 4 DD 28 YY 11	MM 4 DD 28 YY 11			
Start Time: 1400	End Time: 1426	Well Name: NIA	Static Water Level: 12 Feet BGS	Borehole Diameter 2.4 inches	

Project #: 60158985	County Cook	Civil Town/City/for Village Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	Black silty clay, top soil, some organics, soft, moist, no odor	2.3		1	1248	ELEVATION ~ 6'
			2.0	(1.0 - 4.0') UNSAT. FINE BROWN-BLACK, F.C SAND, FINE P.M GRAVEL, TRACE BRN, TRACE CLONK, LOOSE, MOIST, NO ODOR			2	1222	
			3.0				3	851	
			4.0				4	862	
			5.0				5	901	
4	8	GP	4.0	(4.0 - 8.0') SAME AS (1.0 - 4.0') INTERVAL, LOOSE, MOIST, NO ODOR	2.4		6	988	
			5.0				7	2544	
			6.0				8	1548	
			7.0				9	1342	
			8.0				10	849	
			9.0				11	1479	
8	12	GP	10.0	(8.0 - 12.0') SAME AS (1.0 - 8.0') CONCRETE LAYER FROM (9 - 10'), LOOSE, MOIST, NO ODOR	2.5		12	883	
			11.0				13	574	
			12.0				14	574	
			13.0				15	517	
12	16	GP	14.0	BROWN NATIVE SAND, SW, P.M SAND, TRACE P CONGR, LOOSE, WET @ 12', NO ODOR	2.9		16	560	sampled @ - 7
			15.0						
			16.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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* 25' cord used

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number G-7
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JAH Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar	MM 4 DD 28 YY 11	MM 4 DD 28 YY 11		
Start Time: 1323	End Time: 1342	Well Name N/A	Static Water Level 13 Feet BGS	Borehole Diameter 4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	1.0	Black Silty Clay Topsoil, some cracks, soft, moist, no odor	2.6		1	1184	ELEVATION C ~ 6'
			2.0	(1.0-4.0') Urban Fill Brown - Black, F-C SAND, AND F-M GRAVEL, TRACE BRICK, TRACE CLUSTER, LOOSE, MOIST, NO ODOR			2	1276	
			3.0				3	965	
			4.0				4	930	
4	8	GP	5.0	(4.0-8.0') Urban Fill: Brown - Black, F-C SAND, AND F-M GRAVEL, SOME BRICK, TRACE CLUSTER, LOOSE, MOIST, NO ODOR	2.8		5	1154	
			6.0				6	1745	
			7.0				7	1813	
8	12	GP	8.0	(8.0-11.0) SAME AS (1.0-3.0') INTERVAL LOOSE, MOIST, NO ODOR	3.0		8	1470	
			9.0				9	1348	
			10.0	(11.0-12.0') Brown native sand, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR			10	1644	
12	16	GP	12.0	(12.0-16.0') Brown native sand, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET C 13', NO ODOR	2.8		11	1329	
			13.0				12	909	
			14.0				13	658	Sampled @ - T
			15.0				14	499	
			16.0				15	474	
			17.0				16	510	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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* 25' cord used


SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-8
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOJO		Date Drilling Started MM/4 DD/21 YY 11	Date Drilling Completed MM/4 DD/21 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1355	End Time: 1411	Well Name NIA	Static Water Level Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP		ASPHALT AND GRAVEL SUBGRADE	2.7		1	9957	
			1.0	(1.0-4.0') UNSAT FILL:			2	36743	
			2.0	BROWN-BLACK, F-C SAND AND FINE GRAVEL, TRACE BLK, GREEN HEAVY, LOOSE MOIST, NO ODR			3	11605	
			3.0				4	3669	
			4.0				5	2057	
			4.0	(4.0-7.0') FINE SAND:	2.7		6	1603	
			5.0	BROWN FINE SAND, TRACE F GRAVEL, SAND STAINING, LOOSE MOIST, NO ODR			7	1692	
			6.0				8	1353	
			7.0				9	623	
			7.0	(7.0-8.0') BROWN NATIVE SAND, SW, FINE SAND, TRACE F GRAVEL, LOOSE MOIST, NO ODR			10	589	
			8.0				11	564	
			8.0	(8.0-12.0')	2.6		12	562	
			9.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 10', NO ODR					Sampled @ 2'-3'
			10.0						
			11.0						
			12.0	EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061


SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number G-9
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SoTu		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar	MM/ DD/ YY 4 DD/ 20 YY 11	MM/ DD/ YY 4 DD/ 20 YY 11		
Start Time: 0900	End Time: 0909	Well Name N/A	Static Water Level 8 Feet BGS	Borehole Diameter: 0.4 inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth In feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SURFACE	2.4		1	27914	SOIL BORING OFFSET: → 4' (ELECTRICAL UTILITY)
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK F-F SAND, AND F-M GRAVEL, TRACE BRNCH, TRACE CLONER, LOOSE, MOIST, NO ODOM			2	13972	
			3.0				3	1565	
			4.0				4	848	
			5.0				5	833	
4	8	GP	4.0	(4.0-5.0') FILL: BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM	2.9		6	887	
			5.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			7	892	
			6.0				8	717	
			7.0				9	587	
			8.0				10	633	
8	12	GP	8.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, VET C 8', NO ODOM	2.8		11	612	
			9.0				12	541	
			10.0						
			11.0						
			12.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

Sample
0-1'


SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number G-10	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD 20 YY 11	Date Drilling Completed MM 4 DD 20 YY 11	Drilling Method Geoprobe	
Firm: Del Mar	Start Time: 0838	End Time: 0851	Well Name: N/A	Static Water Level: 8' Feet BGS	Borehole Diameter: 2 1/2 inches
Project #: 60158985	County: Cook	Civil Town/City/Village: Chicago, IL			

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/ID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL, SUBGRADES	2.9		1	4500	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BAUM, TRACE CINDER, LOOSE, MOIST, NO ODOM			2	3774	
			3.0				3	1050	
			4.0				4	748	
			5.0				5	742	
4	8	GP	6.0	FILL: BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM, BROWN STAINING	2.8		6	740	
			7.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			7	673	
			8.0				8	773	
			9.0				9	717	
			10.0				10	603	
			11.0				11	636	
8	12	GP	12.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 8', NO ODOM	2.8		12	593	
				EOB @ 12'					593 @ -1'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 6-11
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MW: 4 DD/ 18 YY 11	MW: 4 DD/ 18 YY 11	Geoprobe
Start Time: 1503	End Time:	Well Name NA	Static Water Level 9'	Borehole Diameter 4 1/2 inches

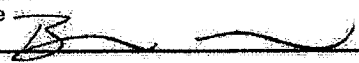
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL SUBGRADE	2.6		1	9400	
			2.0	(1.0-4.0') UNSAN FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, CINDER HEAVY, TRACE BRICK, LOOSE, MOIST, NO OODR			2	4915	
			3.0				3	2263	
			4.0				4	1604	
4	8'	GP	5.0	FILL: BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODR	2.9		5	1559	
			6.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODR			6	1429	
			7.0				7	1509	
			8.0				8	1265	
			9.0				9	761	
			10.0				10	695	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST @ 9', NO OODR			11	580	
			12.0				12	518	

Sampled @ 1 & 2'

EOB @ 12'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number G-12
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD 18 YY 11	MM 4 DD 18 YY 11	Geoprobe
Start Time: 1430	End Time: 1442	Well Name N/A	Static Water Level 9'	Borehole Diameter 4.0 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	TOP SOIL: BLACK SILTY CLAY, TRACE C SANDS, TRACE F GRAVEL, SOME ORGANICS, LOOSE, MOIST, NO ODR	2.4		1	36587	
			2.0	(1.0-4.0') UNCON. FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE DARK, TRACE CEMENTS, LOOSE, MOIST, NO ODR			2	182113	
			3.0				3	32380	
			4.0				4	11614	
			5.0				5	5908	
4	8	GP	6.0	(4.0-5.0') FILL: BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR	2.8		6	3714	
			7.0				7	3137	
			8.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			8	2642	
			9.0				9	1243	
			10.0				10	749	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO ODR	3.0		11	625	
			12.0				12	557	
				EOB @ 12'			sampled @ -2'		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number G-13
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD 18 YY 11	MM 4 DD 18 YY 11	Geoprobe
Start Time: 1445	End Time: 1457	Well Name: N/A	Static Water Level: 9' Feet BGS	Borehole Diameter: 2.4 inches

Project #: 60158985	County: Cook	Civil Town/City/Village: Chicago, IL
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Sample From (ft)	Sample To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.6		1	761	
			2.0	(1.0-4.0') UGAS FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BAUGH, TRACE CINDEL, LOOSE, MOIST, NO ODOR			2	1550	
			3.0				3	885	
			4.0				4	987	
4	8	GP	5.0	(4.0-5.0') FILL: BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR	3.0		5	1135	
			6.0				6	1128	
			7.0				7	1151	
			8.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR			8	945	
			9.0				9	755	
8	12	GP	10.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, WET @ 9', LOOSE, NO ODOR	3.1		10	663	
			11.0				11	646	
			12.0				12	541	

sampled
@ none

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: 

Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60081

SOIL BORING LOG INFORMATION

AECOM

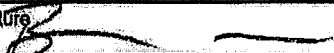
Project Name Michael Reese		Client Michael Reese		Boring Number G-14
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ 5 DD/ 2 YY (1)	MM/ 5 DD/ 2 YY (1)	Geoprobe
Start Time: 1048	End Time: 1057	Well Name N/A	Static Water Level N/A Feet BGS	Borehole Diameter 4.0 Inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
	4	GP	1.0	ASPHALT AND CA-6 GRANUL SUBGRADE	2.6		1	1636	
			2.0	(1.0-4.0') UNDER FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE GLASS, LOOSE, MOIST, NO ODR			2	2251	
			3.0				3	955	
			4.0				4	896	
4	8	GP	5.0	(4.0-5.0') BROWN FINE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			5	926	
			6.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			6	1082	
			7.0				7	954	
			8.0				8	726	
			8.0	EOB @ 8'					

5/9/14
C-2

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number G-16.8
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/5 DD/2 YY 11	Date Drilling Completed MM/5 DD/2 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1103	End Time: 1118	Well Name N/A	Static Water Level 6' Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/RID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 1.0	(0.0 - 1.0') CONCRETE AND CA-6 GRAVEL FOR CURBS	2.1		1	874	Ele - 2'
			1.0 - 2.0	(1.0 - 4.0') UNSAT. FINE BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE GLASS, LOOSE, MOIST, NO OIL			2	1098	
			2.0 - 3.0				3	1025	
			3.0 - 4.0				4	738	
4	8	GP	4.0 - 5.0	(4.0 - 6.0') SAND AS (1.0 - 4.0') INTERVAL, LOOSE, MOIST, NO OIL	2.3		5	664	Sample @ nose
			5.0 - 6.0				6	658	
			6.0 - 7.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 6', NO OIL			7	671	
			7.0 - 8.0				8	595	
			8.0 - 12.0	End @ 8'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

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750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number H-8
Boring Drilled By: Name of crew chief (first, last) and Firm. First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MMI 5 DD/ 2 YY 11	MMI 5 DD/ 2 YY 11	Geoprobe
Start Time: 1431	End Time: 1447	Well Name N/A	Static Water Level 7' Feet BGS	Borehole Diameter: 4 Inches
Project # 60158985	County Cook	City/Town/City/Or Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0.0 - 1.0	(0.0 - 1.0') BLACK SILTY CLAY, TOPSOIL, SOME ORGANICS, SOFT, MOIST, NO ODOR			1	1251	
			1.0 - 2.0	(1.0 - 2.0') UNGRAVELLED BROWN-BLACK FINE SAND, AND FINE GRAVEL, TRACE BENTONITE, TRACE CLAY, LOOSE, MOIST, NO ODOR			2	1034	
			2.0 - 4.0	(2.0 - 4.0') CA-6 GRAVEL LAYER, LOOSE, MOIST, NO ODOR			3	590	
			4.0 - 5.0	(4.0 - 5.0') SAME AS (2.0 - 4.0') INTERVAL, LOOSE, MOIST, NO ODOR			4	508	
4	8	GP	5.0 - 8.0	(5.0 - 8.0') BROWN NATIVE SAND, SW, FINE SAND, TRACE FINE GRAVEL, LOOSE, WET C 7', NO ODOR			5	549	
			6.0 - 7.0				6	571	
			7.0 - 8.0				7	577	
			8.0 - 9.0				8	553	

S₀-gdw
@ - 1'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION



Project Name Michael Reese		Client Michael Reese		Boring Number H-4
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started MM/4 DD/26 YY11	Date Drilling Completed MM/4 DD/26 YY 11	Drilling Method Geoprobe
Start Time: 1447	End Time: 1457	Well Name N/A	Static Water Level 7' Feet BGS	Borehole Diameter 4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Brown silty clay top soil, some organics soft, moist, no odor	3.0		1	1148	
			2.0	(1.0-4.0') Urban fill: brown-black, F-C sand and F-M gravel, trace brick, trace cement, loose, moist, no odor			2	1212	
			3.0				3	710	
			4.0				4	594	
			5.0				5	640	
4	8	GP	6.0	(4.0-5.0') Brown fine sand, F-M sand, some c sand, trace F gravel, loose, moist, no odor	3.2		6	656	
			7.0	(5.0-8.0') Brown native sand, SW, F-M sand, trace F gravel, loose, wet c 7', no odor			7	489	
			8.0				8	486	
			8.0	EOB c 8'					

Samples
C-2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number H-5
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM/ 4 DD/ 26 YY 11	MM/ 4 DD/ 26 YY 11	
Start Time: 1502	End Time: 1517	Well Name N/A	Static Water Level N/A Feet BGS	Borehole Diameter 2.40 inches

Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	BLACH SILTY CLAY TOPSOIL, SOME ORGANICS, SOFT, MOIST, NO OOOO	3.1		1	1330	
			2.0	(1.0-4.0') UNSAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BLACH, TRACE COBBL, LOOSE, MOIST, NO OOOO			2	1133	
			3.0				3	2453	
			4.0				4	1106	
4	8	GP	4.0	(4.0-5.0') BROWN FILL SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOOO	2.9		5	905	
			5.0				6	775	
			6.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOOO			7	531	
			7.0				8	534	
			8.0	EOB @ 8'					

Sampled @ -3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION



Project Name Michael Reese		Client Michael Reese		Boring Number A-6
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar	MM/ 4 DD/ 26 YY	MM/ 4 DD/ 26 YY		
Start Time: 1521	End Time: 1532	Well Name N/A	Static Water Level N/A Feet BGS	Borehole Diameter 1.4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Black Silty Clay Top Soil, Some organics black ^{BP} soft, moist, no odor	2.5		1	1138	
			2.0	(1.0-4.0') Urban Fill: Brown-Brown F-M Sand, and F-M Gravel, Trace Brick, Trace Cinders, Loose, moist, no odor			2	1061	
			3.0				3	3091	
			4.0				4	1923	
			5.0				5	1023	
4	8	GP	6.0	(4.0-5.0') Same as (1.0-4.0') interval, Loose, moist, no odor	1.4		6	805	
			7.0				7	703	
			8.0	(5.0-8.0') Brown Native Sand, SW, F-M Sand, Trace F Gravel, Loose, moist, no odor			8	615	
			8.0	EOB @ 8'					

Sample
E-3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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Project Name Michael Reese		Client Michael Reese		Boring Number H-7
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar	MM/ DD/ YY 4 DD/ 28 YY 11	MM/ DD/ YY 4 DD/ 28 YY 11		
Start Time: 1437	End Time: 1453	Well Name: N/A	Static Water Level: N/A Feet BGS	Borehole Diameter 2.4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	BLACK SILTY CLAY TOPSOIL, SOME GRANULES, SOFT, MOIST, NO OIL	2.9		1	1494	ELEVATION 26
			2.0	(1.0-4.0') URBAN FILL; P-C SAND AND FINE GRAVEL, SOME GRAVEL, TRACES SAND, LOOSE, MOIST, NO OIL			2	1469	
			3.0				3	1280	
			4.0				4	769	
			5.0				5	839	
4	8	GP	5.0	(4.0-8.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OIL	2.7		6	1135	
			6.0				7	1244	
			7.0				8	2431	
			8.0				9	1257	
8	12	GP	8.0	(8.0-9.0') SAME AS (1.0-8.0') INTERVAL, LOOSE, MOIST, NO OIL	3.4		10	844	
			9.0				11	717	
			10.0	(9.0-12.0') BROWN WASH SAND, SW, FINE SAND, TRACES FINE GRAVEL, LOOSE, MOIST, NO OIL			12	584	Sample @ 1' + 8'
			11.0						
			12.0	END @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION



Project Name Michael Reese		Client Michael Reese		Boring Number H-8
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/4 DD/28 YY 11	Date Drilling Completed MM/4 DD/28 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1503	End Time: 1521	Well Name N/A	Static Water Level Feet BGS
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0-1'	BEACH SILTY CLAY, SOFT ORGANICS, SOFT, MOIST, NO ODOM	2.0		1	1201	
			1-4'	URBAN FILL: BROWN-BLACK, F-G SAND AND F-M GRAVEL, TRACE BISMUTH, TRACE CHROMIUM, LOOSE, MOIST, NO ODOM			2	1082	
							3	1079	
							4	1544	
4	8	GP	4.0-5.0'	SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO ODOM	2.6		5	1058	
			5.0-8.0'	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			6	931	
							7	1051	
							8	1010	
			8.0'	EOB @ 8'					

sample
none

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:	Firm: AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number H-9
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Seto		Date Drilling Started MM/ 4 DD/ 21 YY 11	Date Drilling Completed MM/ 4 DD/ 21 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1419	End Time: 1430	Well Name: N/A	Static Water Level Feet BGS
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	

Sample	From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
								Depth	CPM	Comments
	0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL SUBGRADE	2.3		1	16791	BORING OFFSET: ← 5' (WATER UTILITY)
				2.0	(1.0-4.0') VERBON FILL: BROWN-BLACK, F-C SAND AND F GRAVEL, THICK BENCH, UNDER HEAVY, LOOSE, MOIST, NO OGON			2	25220	
				3.0				3	21611	
				4.0				4	19142	
				5.0				5	4192	
	4	8	GP	4.0	(4.0-5.0') SAND FILL: F-M SAND, THICK F GRAVEL, FINE STAINING, LOOSE, MOIST, NO OGON	2.8		6	2808	
				5.0				7	2518	
				6.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, THICK F GRAVEL, LOOSE, MOIST, NO OGON			8	1350	
				7.0				9	596	
				8.0				10	581	
	8	12	GP	8.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, THICK F GRAVEL, LOOSE, WET & R. NO OGON	2.9		11	608	
				9.0				12	578	
				10.0						
				11.0						
				12.0	EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *B*

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

5074
C-5

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number H-10
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Joh Last Name: Soto		Date Drilling Started MM 4 DD/ 20 YY 11	Date Drilling Completed MM 4 DD/ 20 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0815	End Time: 0835	Well Name: N/A	Static Water Level: 8' Feet BGS
Project # 60158985			County Cook	Civil Town/City/Village Chicago, IL

Sample	From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
								Depth	CPM	Comments
	0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL, SUBGRADE	2.4		1	43857	
				2.0	(1.0-4.0') VADW Fill: BROWN - BLACK FINE SAND, AND F-M GRAVEL, TRACE BGN, TRACE BNDN, LOOSE, MOIST, NO OOM			2	27229	
				3.0				3	4217	
				4.0				4	1608	
				5.0				5	1308	
	4	8	GP	4.0	Fill: (4.0-5.0') BROWN - F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOM	2.9		6	1119	
				5.0				7	869	
				6.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOM			8	618	
				7.0				9	601	
				8.0				10	642	
				9.0				11	716	
	8	12	GP	8.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 8', NO OOM	2.7		12	557	
				10.0						
				11.0						
				12.0	EOB @ 12'					

Saphid
(0-12-2)

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION



Project Name Michael Reese		Client Michael Reese		Boring Number H-11
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Jed Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM/ 4 DD/ 15 YY 11	MM/ 4 DD/ 15 YY 11	
Start Time: 1430	End Time: 1440	Well Name N/A	Static Water Level 9 Feet BGS	Borehole Diameter 1.4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample		Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/ID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)					Sample Method	Depth	CPM
0	4	GP	ASPHALT AND CA-6 GRAVEL SUBSTRATE	2.6		1	4237	
			(1.0' - 4.0') UNSAT FILL: BROWN - BUCK, F-C SAND AND F-M GRAVEL, TRACE CLAYERS LOOSE, MOIST, NO ROOT			2	48180	
						3	8230	
						4	2279	
4	8	GP	(4.0 - 8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ROOT	2.8		5	1684	
						6	1514	
						7	1505	
						8	843	-1219
						9	843	
8	12	GP	(8.0' - 12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET C 9', NO ROOT	2.7		10	591	
						11	563	
						12	592	
			EOG @ 12'					S. 11 @-20-3

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number H-12	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe	
Firm: Del Mar		MM/ DD/YY 4 DD/19 YY11	MM/ DD/YY 4 DD/19 YY11		
Start Time: 0902	End Time: 0919	Well Name: N/A	Static Water Level: 9'	Borehole Diameter 1.75 inches	
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL			

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	TOP SOIL - BLACK SILTY CLAY, TRACE G SAND, TRACE F GRAVEL, SOME ORGANICS, SOFT, MOIST, NO ODOM	2.3		1	5431	SOIL BORING OFFSET ↓ 7' (WATER MAIN)
			2.0	(1.0'-4.0') URBAN FILL: BROWN-BLACK, F-C SAND, AND F-M GRAVEL, BATCH HEAVY, TRACE WOOD FRAG, LOOSE, MOIST, NO ODOM			2	9414	
			3.0				3	62136	
			4.0				4	94946	
			5.0				5	9555	
4	8	GP	6.0	(4.0-5.0') URBAN FILL: BROWN-BLACK F-M SAND, TRACE F GRAVEL, TRACE WOOD FRAG, LOOSE MOIST, NO ODOM	2.7		6	4627	
			7.0				7	3385	
			8.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			8	2476	
			9.0				9	1267	
			10.0				10	709	
			11.0				11	623	
8	12	GP	12.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9'; NO ODOM	2.7		12	647	
									55' Rad @ -2' ± 4'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number H-10
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD 18 YY 11	MM 4 DD 18 YY 11	Geoprobe
Start Time: 1540	End Time: 1555	Well Name: N/A	Static Water Level 9 Feet BGS	Borohole Diameter 4.0 Inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 SUBGRADE	2.9		1	1254	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK; F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE GYPSUM, LOOSE, MOIST, NO OODR			2	2416	
			3.0				3	2429	
			4.0				4	1673	
			5.0				5	1134	
4	8	GP	6.0	(4.0-5.0') SANDS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OODR	2.9		6	1146	
			7.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODR			7	1055	
			8.0				8	834	
			9.0				9	690	
8	12	GP	10.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO OODR	2.9		10	688	
			11.0				11	596	sampled
			12.0				12	605	@-3'
			12.0	EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number H-14
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD 20 YY 11	Date Drilling Completed MM 4 DD 20 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1120	End Time: 1135	Well Name: N/A	Static Water Level: 8' Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.8		1	1136	
			2.0	(1.0-4.0') UNSAN FILL: BROWN-BLACK, F-C SAND, AND F GRAVEL, TRACE BRICH, TRACE CLUSHA, LOOSE, MOIST, NO OOR			2	1306	
			3.0				3	995	
			4.0				4	1014	
			5.0				5	1024	
			6.0				6	927	
4	8	GP	7.0	(4.0-7.0') FILL: BROWN-BLACK F-M SAND, TRACE F GRAVEL, TRACE BRICH, LOOSE, MOIST, NO OOR			7	870	
			8.0				8	768	
			9.0				9	706	
8	12	GP	10.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 8', NO OOR			10	822	
			11.0				11	805	
			12.0				12	731	Sample @ 12.0'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number H-15
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD/20 YY11	Date Drilling Completed MM 4 DD/20 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1320	End Time: 1335	Well Name N/A	Static Water Level 8' Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.4		1	885	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-M SAND AND F GRAVEL, TRACE BRNH, LOOSE, MOIST, NO OOU			2	934	
			3.0				3	929	
			4.0				4	977	
4	8	GP	5.0	(4.0-8.0') LITTLE RECOVERY (BRNH OBSTRUCTION) URBAN FILL: SAND AT (1.0-4.0') INTERVAL, CA-6 GRAVEL, LOOSE, MOIST, NO OOU	1.0		5	359	
			6.0				6	263	
			7.0				7	299	
			8.0				8	347	
			9.0				9	433	
8	12	GP	10.0	(8.0-9.0') CA-6 GRAVEL FILL, WFT, LOOSE, NO OOU			10	534	
			11.0	(9.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, WFT, LOOSE, NO OOU			11	550	
			12.0	EOB @ 12'			12	592	Sampled @

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>B. Soto</i>	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number H-16
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 5 DD 2 YY 11	Date Drilling Completed MM 5 DD 2 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1125	End Time: 1140	Well Name: N/A	Static Water Level: 8' Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GUNNED SURROUND	1.8		1	507	Ele - 9'
			2.0	(1.0-4.0') URSAN FILL: BROWN-BLACK, F-C SAND AND FINE GRAVEL, TRACE BRICK, TRACE GUNNED, LOOSE, MOIST, NO ODR			2	1168	
			3.0				3	1309	
			4.0				4	1204	
4	8	GP	5.0	(4.0-8.0') BROWN FINE SAND, LITTLE REDDISH, F-C SAND, TRACE, F GRAVEL, LOOSE, MOIST, NO ODR	0.4		5	1347	
			6.0				6	1446	
			7.0				7	2000	
			8.0				8	2023	
			9.0				9	2436	
8	12	GP	10.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-C SAND, TRACE F GRAVEL, LITTLE REDDISH, LOOSE, WET c 8', NO ODR	0.1		10	1341	
			11.0				11	680	
			12.0				12	489	597/ft @ none (no recovery)
				E03 c 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

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750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number F-7
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/4 DD/29 YY/11	Date Drilling Completed MM/4 DD/29 YY/11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1331	End Time: 1344	Well Name: N/A	Static Water Level: N/A Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Black Silty Clay, Topsoil, Some Organics, Soft, Moist, no odor	3.1		1	1394	Elevation @ 2'
			2.0	(1.0-4.0') V. G. S. M. S. L. BROWN-BLACK R. C. SAND AND F. M. GRAVEL, B. H. M. S. T. G. CINDER, LOOSE, MOIST, NO ODOR			2	1322	
			3.0				3	1433	
			4.0				4	2005	
			5.0				5	1879	
4	8	GP	4.0	(4.0-8.0') SAME AS (1.0-4.0') L. F. R. A. L., B. H. H. E. A. V. Y., L. I. T. T. L. E. R. E. C. O. V. E. R. Y., L. O. O. S. E., M. O. I. S. T., N. O. O. D. O. R.	1.4		6	1595	
			5.0				7	1360	
			6.0				8	907	
			7.0				9	967	
			8.0				10	646	
			9.0				11	509	
8	12	GP	8.0	(8.0-12.0') NO RECOVERY, B. H. O. B. S. T. R. U. C. T. I. O. N.	0.4		12	518	Sample @ -4'
			9.0						
			10.0						
			11.0						
			12.0	Eos @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

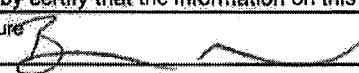
SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number I-8
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD/ 29 YY 11	MM 4 DD/ 29 YY 11	Geoprobe
Start Time: 1313	End Time: 1325	Well Name N/A	Static Water Level 10' Feet BGS	Borehole Diameter 4 inches
Project # 60158985	County Cook	Civil Town/City/Or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	GPM	Comments
0	4	GP	1.0	Black silty clay topsoil, some organics, soft, moist, no odor	3.4		1	1436	Elevation ~ 3'
			2.0	(1.0-4.0') VARIOUS FILL: Brown-Black, F-M SAND AND F-M GRAVEL, TRACE BRICK, SOME CLAY, LOOSE, MOIST, NO ODOR			2	1132	
			3.0				3	1003	
			4.0				4	975	
4	8	GP	5.0	(4.0-6.0') SAME AS (1.0-4.0') SOME BRICK, LOOSE, MOIST, NO ODOR	3.0		5	1011	
			6.0	(6.0-8.0') BROWN-BLACK FINE SAND, SW, F-M SAND, TRACE C SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR			6	1087	
			7.0				7	824	
			8.0				8	781	
8	12	GP	9.0	(8-12') BROWN NATIVE SAND, SW, F-M SAND, SOME C SAND, SOME F GRAVEL, LOOSE, WET C 10'; NO ODOR	2.2		9	723	
			10.0				10	680	
			11.0				11	537	sampled @ -1'
			12.0				12	551	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

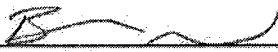
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number J-9
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD 21 YY 11	MM 4 DD 21 YY 11	Geoprobe
Start Time: 1435	End Time: 1450	Well Name N/A	Static Water Level 8 Feet BGS	Borehole Diameter: 4 inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL SANDS	3.0		1	8840	
			2.0	(1.0-4.0) UNOAS FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE CHLN, GINGER HEAVY, LOOSE, MOIST, NO ODR			2	3915	
			3.0				3	1709	
			4.0				4	1000	
			5.0				5	870	
4	8	GP	4.0	(4.0-5.0) FINE SAND, BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR	2.8		6	964	
			5.0				7	989	
			6.0	(5.0-8.0) BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			8	773	
			7.0				9	538	
			8.0				10	522	
8	12	GP	8.0	(8.0-12.0) BROWN NATIVE SAND, SW, F-M SAND, SOME C SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR	2.6'		11	569	
			9.0				12	506	
			10.0						
			11.0						
			12.0	EOB @ 12'					

sample
e-1

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number I-10
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/4 DD/15 YY11	Date Drilling Completed MM/4 DD/15 YY11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1337	End Time: 1348	Well Name N/A	Static Water Level Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SURFACE	2.8		1	2236	BORING OFFSE ↑ 5', → 6'
			2.0	URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CLONER, LOOSE MOIST, NO ODOR			2	2737	
			3.0				3	1049	
			4.0				4	840	
4	8	GP	5.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR	2.8		5	608	
			6.0				6	610	
			7.0				7	727	
			8.0				8	565	
8	12	GP	9.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST , NO ODOR WET @ 9'	2.3		9	570	
			10.0				10	536	
			11.0				11	577	
			12.0	EOB @ 12'			12	529	SOPAN @ -2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 7-11
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD/ 5 YY 11	MM 4 DD/ 5 YY 11	Geoprobe
Start Time: 1320	End Time: 1330	Well Name NIA	Static Water Level 9'	Borehole Diameter 4 1/2 Inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.7		1	5011	
			2.0	(1.0-4.0') UNSAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRUSH, TRACE CLUSTER, LOOSE, MOIST, NO OODR			2	23922	
			3.0				3	10233	
			4.0				4	2816	
4	8	GP	5.0	(4.0-5.0') SAME AS (1.0-4.0') INTERVAL, LOOSE MOIST, NO OODR	2.7		5	1382	
			6.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODR			6	1098	
			7.0				7	1030	
			8.0				8	924	
8	12	GP	9.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, WET C9, LOOSE, NO OODR	2.6		9	555	
			10.0				10	519	
			11.0				11	514	
			12.0				12	549	Sample @ 2'23"
				EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number I-12
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ DD/ YY '11 4 DD/ 19 YY '11	MM/ DD/ YY '11 4 DD/ 19 YY '11	Geoprobe
Start Time: 0928	End Time: 0955	Well Name N/A	Static Water Level 9'	Borehole Diameter 4" inches

Project # 60158985	County Cook	Civil Town/City or Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	TOP SOIL: BLACK SILTY CLAY, SINC QUARTZ, TRACE Q SAND, TRACE F GRAVEL, LOOSE, SET, NO ODR	2.1		1	1699	
			2.0	(1.0-4.0') UNDER FILL: BROWN BUCK, F-M SAND AND F-M GRAVEL, BRICK HEAVY, TRACE CLAYERS, LOOSE, MOIST, NO ODR			2	3811	
			3.0				3	17668	
			4.0				4	5392	
			5.0				5	1809	
4	8	GP	6.0	(4.0-5.0') FILL: BROWN-BLACK, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR	2.4		6	1169	
			7.0				7	1072	
			8.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			8	1122	
			9.0				9	798	
			10.0				10	563	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO ODR	2.6		11	639	
			12.0				12	574	

50' and
0-3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number J-13
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/4 DD/19 YY 11	Date Drilling Completed MM/4 DD/19 YY 11	Drilling Method Geoprobe
Start Time: 1000	End Time: 1013	Well Name: N/A	Static Water Level: Feet BGS	Borehole Diameter 4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	TOP SOIL: BLACK SILTY CLAY, TRACE C SAND, TRACE F GRAVEL, SOME ORGANICS, SOFT SOFT, MOIST, NO OODL	1.9		1	6498	
			2.0	(1.0-4.0') UNASD FILL: BROWN-BLACK, F-C SAND, ALSO F-M GRAVEL, TRACE ORGANICS, TRACE GLASS, LOOSE, MOIST, NO OODL			2	5612	
			3.0				3	6231	
			4.0				4	4625	
			5.0				5	4348	
4	8	GP	6.0	(4.0-6.0') FILL: BROWN-BLACK F-M SAND, TRACE F GRAVEL, TRACE ORGANICS, LOOSE, MOIST, NO OODL	2.2		6	3169	
			7.0				7	1643	
			8.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODL			8	1122	
			9.0				9	681	
8	12	GP	10.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET C 9', NO OODL	27		10	608	
			11.0				11	611	
			12.0				12	642	

Sagitta
@-1'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number J-14
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/ DD/ YY 4/ 20/ 11	Date Drilling Completed MM/ DD/ YY 4/ 20/ 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1140	End Time: 1155	Well Name N/A	Static Water Level 8' Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL, SUBGRADE	2.0		1	434	
			2.0	(1.0-4.0') FILL: (UST) BROWN M-C SAND (FEA GRAVEL) F-M GRAVEL, LOOSE, MOIST, NO ODOOR			2	437	
			3.0				3	473	
			4.0				4	409	
			5.0				5	497	
4	8	GP	6.0	(4.0-7.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO ODOOR	1.6		6	716	
			7.0				7	755	
			8.0				8	596	
			9.0				9	638	
			10.0	(7.0-8.0') LOOSE, BROWN NATIVE SAND, SW, F-M SAND, THIN F GRAVEL, LOOSE, MOIST, NO ODOOR			10	702	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, THIN F GRAVEL, LOOSE, WET @ 8'; NO ODOOR	3.1		11	661	
			12.0	BOB @ 12'			12	587	

Sampled @ 12.0'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number I-15	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/4 DD/20 YY/11	Date Drilling Completed MM/4 DD/20 YY/11	Drilling Method Geoprobe	
Firm: Del Mar		Static Water Level Feet BGS		Borehole Diameter 14 inches	
Start Time: 1255	End Time: 1307	Well Name NIA			
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL			

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.8		1	12489	
			2.0	(1.0-4.0') URAN FILL: BROWN-BLACK F-C SAND AND F GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO OOGA			2	2169	
			3.0				3	845	
			4.0				4	748	
4	8	GP	5.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOGA	2.9		5	746	
			6.0				6	778	
			7.0				7	688	
			8.0				8	640	
			9.0				9	609	
8	12	GP	10.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 8', NO OOGA	3.1		10	617	
			11.0				11	620	
			12.0	EOB @ 12'			12	563	

Scop'd
@-1'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 5-4
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/4 DD/ 29 YY 11	Date Drilling Completed MM/4 DD/ 29 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1517	End Time: 1528	Well Name N/A	Static Water Level 8' Feet BGS
Project #: 60158985		County Cook	Civil Town/City/ or Village Chicago, IL	

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0 2.0 3.0 4.0	(0-4.0') URBAN FILL; BROWN-BLACK F- S SAND AND F-OM GRAVEL, SOME GRAVEL, TRACE CLAY, LOOSE, MOIST, NO OIL	2.6		1 2 3 4	1014 1278 1161 1116	
4	8	GP	4.0 5.0 6.0 7.0	(4.0-8.0') SAME AS (0-4.0') MATERIAL, LOOSE, MOIST, NO OIL	1.2		5 6 7 8	881 748 499 504	
8	12	GP	8.0 9.0 10.0 11.0 12.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE GRAVEL, LOOSE, WET C 8; NO OIL	3.5		9 10 11 12	578 629 631 602	Sample @ none

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

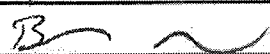
SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number J-8
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD 29 YY 11	MM 4 DD 29 YY 11	Geoprobe
Start Time: 1412	End Time: 1425	Well Name N/A	Static Water Level 8' Feet BGS	Borehole Diameter 2.4 inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Black Silty Clay, Topsoil, Some organic, soft, moist, no odor	0.7		1	1374	
			2.0	(1.0-4.0') Urban fill Brown-Black F-C Sand and F-M Gravel, Some Blch, Trace Cluscl, loose, moist, no odor			2	1047	
			3.0				3	1285	
			4.0				4	1562	
4	8	GP	4.0	(4.0-8.0') NO RECOVERY, Blch obstruction,	0.6		5	1744	
			5.0				6	1615	
			6.0				7	1645	
			7.0				8	1241	
			8.0				9	535	
8	12	GP	8.0	(8.0-12.0') Brown native sand, SW, F-M sand, Trace F Gravel, loose, wet c 8', no odor	2.5		10	479	
			9.0				11	485	
			10.0				12	605	Sample @ nose
			11.0						
			12.0	EOB c 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
760 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

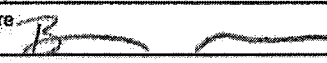
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number J-9
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ DD/ YY 11	MM/ DD/ YY 11	Geoprobe
Start Time: 1350	End Time: 1404	Well Name N/A	Static Water Level 9' Feet BGS	Borehole Diameter 1.4 inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	BEACH SILTY CLAY, TOP SOIL, SOME ORGANICS, SOFT, MOIST, NO ODR	2.0		1	1458	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BAKEN, TRACE CLONEN, LOOSE, MOIST, NO ODR			2	1310	
			3.0				3	1458	
			4.0				4	1290	
			5.0				5	1327	
4	8	GP	6.0	NO RECOVERY (BAKED OBSTRUCTIONS)	0.3		6	1331	
			7.0				7	1042	
			8.0				8	607	
			9.0				9	591	
8	12	GP	10.0	URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BAKEN, TRACE CLONEN, LOOSE MOIST, NO ODR	2.8		10	471	
			11.0	(9.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F-M GRAVEL, LOOSE, WET @ 9', NO ODR			11	488	
			12.0				12	486	
								591	
				END @ 12'					

55 gals
@ -2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 3-10
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/YY DD/YY MM 4 DD/21 YY 11	MM/YY DD/YY MM 4 DD/21 YY 11	Geoprobe
Start Time: 1456	End Time: 1510	Well Name: N/A	Static Water Level 8 Feet BGS	Borehole Diameter 2.4 inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/ID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL SUBGRADE	2.2		1	2746	BORING OFFSET ← 5' (Water Utility)
			2.0	(1.0-4.0') URBAN FILL: BROWN-BROWN, F-C SAND AND F-M GRAVEL, SOME BRICK, CLOSER HEAVY, LOOSE, MOIST, NO ROCK			2	1931	
			3.0				3	1366	
			4.0				4	910	
			5.0				5	963	
4	8	GP	4.0	(4.0-6.0') URBAN FILL: SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO ROCK	2.7		6	712	
			5.0				7	715	
			6.0				8	623	
			7.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE C SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ROCK			9	602	
			8.0				10	554	
8	12	GP	8.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST @ 8', NO ROCK	2.9		11	518	
			9.0				12	536	
			10.0						
			11.0						
			12.0	EOB @ 12'					Sampled @ 11'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 3-11	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/4 DD/15 YY 11	Date Drilling Completed MM/4 DD/15 YY 11	Drilling Method Geoprobe	
Firm: Del Mar		Static Water Level 9' (B)		Borehole Diameter 4" inches	
Start Time: 1302	End Time: 1310	Well Name N/A	Feet BGS		

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.4		1	1118	
			2.0	(1.0-4.0') UNBAW FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO OODN			2	4153	
			3.0				3	1941	
			4.0				4	1284	
			5.0				5	553	
4	8	GP	4.0	(4.0-5.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OODN	2.4		6	581	
			5.0				7	712	
			6.0	(5.0'-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODN			8	611	
			7.0				9	628	
			8.0				10	571	
8	12	GP	8.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET & 9", NO OODN	2.7		11	553	
			9.0				12	589	
			10.0						sampled @ -2
			11.0						
			12.0	EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number J-12
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/4 DD/15 YY 11	MM/4 DD/15 YY 11	Geoprobe
Start Time: 1245	End Time: 1255	Well Name N/A	Static Water Level 9 Feet BGS	Borehole Diameter 4.4 Inches

Project #: 60158985	County: Cook	Civil Town/City/Village: Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SURFACE	2.7		1	2519	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVELS, TRACE BLACK, TRACE GIBBER, LOOSE, MOIST, NO ODR			2	3901	
			3.0				3	1089	
			4.0				4	718	
			5.0				5	594	
4	8	GP	6.0	(4.0-5.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO ODR	2.5		6	707	
			7.0				7	801	
			8.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			8	652	
			9.0				9	507	
			10.0				10	496	
8	12	GP	11.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST (WET @ 9'), NO ODR	2.6		11	502	
			12.0				12	488	

EOB @ 9'

sampled @ - 2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number J-13
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JAYN Last Name: SOTO		Date Drilling Started MM/4 DD/19 YY 11	Date Drilling Completed MM/4 DD/19 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1022	End Time: 1036	Well Name N/A	Static Water Level 9' Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	TOP SOIL: BLACK SILTY CLAY, TRACE C SAND, TRACE F GRAVEL, SOME ORGANICS, SOFT, MOIST, NO OOLN	2.8		1	2794	SOIL BORING OFFSET: ← 6' (GAP MARK)
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK F-C SAND, AND F-M GRAVEL, TRACE BRICK, TRACE GLASS, LOOSE, MOIST, NO OOLN			2	6287	
			3.0				3	4184	
			4.0				4	1328	
4	8	GP	5.0	(4.0-6.0') FILL: BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOLN	2.9		5	951	
			6.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOLN			6	871	
			7.0				7	965	
			8.0				8	863	
8	12	GP	9.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO OOLN	2.7		9	709	
			10.0				10	604	
			11.0				11	688	
			12.0				12	663	

See field @ -2' + 3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 3-14
Boring Drilled By: Name of crew chief (first, last) and Firm. First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD 19 YY 11	Date Drilling Completed MM 4 DD 19 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1046	End Time: 1100	Wall Name: N/A	Static Water Level: 9' Feet BGS
Project #: 60158985	County: Cook	City/Town/City or Village: Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	Asphalt and GA-6 Subgrade (1.0-4.6') Fill: Pea-Gravel (UST Backfill) Loose, moist, no odor	1.7		1	423	Boring offset ← 7' (UST)
			2.0				2	407	
			3.0				3	418	
			4.0				4	452	
			5.0				5	466	
4	8	GP	4.0	(4.0-8.0') Same as 1.0-4.0' Interval, loose, moist, no odor	1.3		6	504	
			5.0				7	496	
			6.0				8	477	
			7.0				9	580	
			8.0				10	613	
8	12	GP	8.0	(8.0-9.0') Same as (1.0-8.0') Interval, no odor			11	641	
			9.0	(9.0-12.0') Brown native sand, SW, P-M S&S, Trace P Gravel, Loose, wet @ 9', no odor			12	628	
			10.0						
			11.0						
			12.0	EOB @ 12'					Sample @ 11ft

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: 	Firm: AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number J-15
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD 19 YY 11	MM 4 DD 19 YY 11	Geoprobe
Start Time: 1354	End Time: 1406	Well Name N/A	Static Water Level: 9 Feet BGS	Borehole Diameter 4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample	From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
								Depth	CPM	Comments
	0	4	GP	1.0	TOP SOIL: BEACH SILTY CLAY, TRACE C SAND, TRACE F GRAVEL, SOFT, MOIST, NO OGRA, SOME ORGANICS	2.7		1	3313	
				2.0	(1.0-4.0') UNCL. FILL: BROWN-BLACK, F-M SAND, AND F-M GRAVEL, TRACE SHAL, TRACE CLAY, LOOSE, MOIST, NO OGRA			2	12826	
				3.0				3	3255	
				4.0				4	1680	
				5.0				5	1259	
	4	8	GP	6.0	(4.0-6.0') FILL: SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OGRA	1.9		6	1073	
				7.0				7	1121	
				8.0				8	1406	
				9.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OGRA			9	4003	
				10.0				10	1707	
	8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO OGRA	1.5		11	696	
				12.0				12	685	

Sampled @ 2009

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 5-16
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/ DD/ YY	Date Drilling Completed MM/ DD/ YY	Drilling Method Geoprobe
Firm: Del Mar		MM/ DD/ YY	MM/ DD/ YY	
Start Time: 1420	End Time: 1435	Well Name N/A	Static Water Level: 9' Feet BGS	Borehole Diameter: 4.0 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SURGRADE	2.0				SOIL BORING OFFSET ↑ 7' (FENCED IS UTILITY SERVICES)
			2.0	(1.0-4.0') UNDRY FILL: BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO COOL					
			3.0						
			4.0						
4	8	GP	5.0	(4.0-6.0') FILL: BROWN F-M SAND, TRACE F GRAVEL, SAND BLIND, LOOSE, MOIST, NO COOL	2.3				
			6.0						
			7.0						
			8.0						
8	12	GP	9.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO COOL	2.8				
			10.0						
			11.0						
			12.0						
				EOB @ 12'					Samples @ none

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number K-10
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD/ 21 YY 11	Date Drilling Completed MM 4 DD/ 21 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1515	End Time: 1530	Well Name N/A	Static Water Level 8'
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND G.A. GRAVEL SLOPE	2.0		1	802	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-G SAND AND F GRAVEL, TRAC FINE, SAND GRAVEL, LOOSE, MOIST, NO OOR			2	1067	
			3.0				3	777	
			4.0				4	615	
			5.0				5	563	
4	8	GP	6.0	(4.0-6.0') SAME AS 1.0-4.0' INTERVAL LOOSE, MOIST, NO OOR	2.9		6	609	
			7.0	5-6' INTERVAL FINE SAND, F-G BROWN SAND, TRAC F GRAVEL, SAND STAINING, LOOSE, MOIST, NO OOR			7	714	
			8.0	(6.0-8.0') BROWN NATIVE SAND, SW, FINE SAND, TRAC F GRAVEL, LOOSE, MOIST, NO OOR			8	612	
			9.0				9	544	
			10.0				10	559	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F.A. SAND, TRAC F GRAVEL, LOOSE, WET C 2', NO OOR	2.8		11	528	
			12.0				12	535	

Signed
@ none

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number K-11
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/4 DD/15 YY	Date Drilling Completed MM/4 DD/15 YY	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1140	End Time: 1155	Well Name N/A	Static Water Level 9 Feet BGS
Project #: 60158985	County Cook	Civil Town/City/or Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND GA-B GRAVEL SUBGRADE	2.2'		1	690	BORING OFFSET → 5' (ELECTRIC UTILITY)
			2.0	(1.0-4.0') URBAN FILL BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO OOLN			2	1174	
			3.0				3	1036	
			4.0				4	763	
			5.0				5	769	
4	8	GP	5.0	(4.0-5.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OOLN	1.6'		6	801	
			6.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOLN			7	724	
			7.0				8	574	
			8.0				9	552	
			9.0				10	627	
8	12	GP	8.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO OOLN	2.7'		11	623	
			9.0				12	493	
			10.0						
			11.0						
			12.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

sampled @ none

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number K-12
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/4 DD/15 YY	Date Drilling Completed MM/4 DD/15 YY	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1120	End Time: 1135	Well Name N/A	Static Water Level 9 Feet BGS
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	

Sample	From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
								Depth	CPM	Comments
	0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.3		1	1445	
				2.0	(1.0-4.0') LIQUID FILL; BROWN BLACK, F-M SAND AND F-M GRAVEL, SOME GRITS, TRACE CLUSTERS, LOOSE, MOIST, NO ODOM			2	3643	
				3.0				3	1986	
				4.0				4	1333	
				5.0				5	839	
	4	8	GP	6.0	(4.0'-5.0') SAME AS (1.0'-4.0') INTERVAL, LOOSE, MOIST, NO ODOM	3.0		6	758	
				7.0				7	672	
				8.0	(5.0'-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, TRACE C SAND, LOOSE, MOIST, NO ODOM			8	621	
				9.0				9	605	
				10.0				10	544	
				11.0				11	521	
	8	12	GP	12.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO ODOM	2.8		12	600	
					EOB @ 12'					

Suppl
@ 2'13"

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

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750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number K-13
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHAN Last Name: SOTO		Date Drilling Started MM/4 DD/15 YY11	Date Drilling Completed MM/4 DD/15 YY11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1103	End Time: 1113	Well Name: N/A	Static Water Level: 9 Feet BGS
Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.1		1	1242	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE GLASS, LOOSE, MOIST, NO ODR			2	4128	
			3.0				3	2295	
			4.0				4	1593	
			5.0				5	864	
4	8	GP	6.0	(4.0-5.0') SAME AS 1.0-4.0' INTERVAL, SOME BRICKS, LOOSE, MOIST, NO ODR	2.5		6	740	
			7.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			7	739	
			8.0				8	691	
			9.0				9	624	
			10.0				10	576	
8	12	GP	11.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET C, NO ODR	2.8		11	530	
			12.0				12	500	

Sample
P-2'

EOB @ 12'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: B Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number K-19
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar	MM 4 DD 19 YY 11	MM 4 DD 19 YY 11		
Start Time: 1243	End Time: 1255	Well Name N/A	Static Water Level: 9' Feet BGS	Borehole Diameter 4.9 inches
Project # 60158985	County Cook	Civil Town/City/Or Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL SUBGRADE	2.3		1	4545	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SANDS, AND F-M GRAVEL, CLONER HEAVY, TRACE BAKES, LOOSE, MOIST, NO OOLN			2	11341	
			3.0				3	3461	
			4.0				4	1888	
			5.0				5	1024	
4	8	GP	6.0	(4.0-8.0') SAME AS (1.0'-4.0') INTERVAL, LOOSE, MOIST, NO OOLN	1.7		6	861	
			7.0				7	940	
			8.0				8	816	
			9.0				9	705	
			10.0				10	699	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOLN, WBT @ 9'	2.8		11	593	
			12.0	EOB @ 12'			12	618	

Sample @ - 2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [Signature] Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

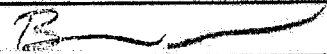
Project Name Michael Reese		Client Michael Reese		Boring Number K-15	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD 19 YY 11	Date Drilling Completed MM 4 DD 19 YY 11	Drilling Method Geoprobe	
Firm: Del Mar		Static Water Level 0' Feet BGS		Borehole Diameter 2.4 inches	
Start Time: 1303	End Time: 1317	Well Name N/A	Project # 60158985		County Cook
			City/Town/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	TOPSOIL: BLACK SILTY CLAY, TRACE C SANDS, TRACE F GRAVEL, SOME ORGANS; LOOSE, MOIST, NO OOL	2.8		1	1765	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK F-C SAND, AND F-M GRAVEL, TRACE BRICK, MOIST, LOOSE, NO OOL			2	3101	
			3.0				3	4425	
			4.0				4	1373	
4	8	GP	5.0	(4.0-6.0') FILL: BROWN F-M SAND, TRACE F GRAVEL, IRON STEELING, MOIST, LOOSE, NO OOL	2.7		5	795	
			6.0				6	774	
			7.0				7	720	
			8.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOL			8	919	
			9.0				9	783	
8	12	GP	10.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO OOL	3.0		10	643	
			11.0				11	662	
			12.0				12	693	

Sampled @ -3'

EOB @ 12'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number K-16	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method	
Firm: Del Mar		MM 4 DD/19 YY 11	MM 4 DD/19 YY 11	Geoprobe	
Start Time: 1325	End Time: 1339	Well Name: N/A	Static Water Level Feet BGS	Borehole Diameter: 1.4 Inches	
Project #: 60158985	County: Cook	Civil Town/City/Village: Chicago, IL			

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	TOP SOIL: BLACK SILTY CLAY, TRACE C SAND, TRACE F GRAVEL, SOME ORGANICS, SOFT, MOIST, NO ODOM	2.0		1	2693	
			2.0	(1.0-4.0') UNDOA FILL BROWN-BLACK, F-C SAND, AND F-M GRAVEL, TRACE BLACK, TRACE CLAY, LOOSE, MOIST, NO ODOM			2	6060	
			3.0				3	4571	
			4.0				4	1525	
			5.0				5	840	
4	8	GP	6.0	(4.0-5.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO ODOM	3.0		6	897	
			7.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			7	863	
			8.0				8	913	
			9.0				9	900	
			10.0				10	697	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F-M GRAVEL, LOOSE, MOIST, NO ODOM	3.0		11	684	
			12.0				12	635	

Sampled @ -2'

EOB @ 12'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number K-17	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD 19 YY 11	Date Drilling Completed MM 4 DD 19 YY 11	Drilling Method Geoprobe	
Firm: Del Mar		Static Water Level 9' Feet BGS		Borehole Diameter 1.4 inches	
Start Time: 1450	End Time: 1503	Well Name N/A	Civil Town/City/Village Chicago, IL		
Project # 60158985	County Cook				

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL SURGRADE	1.9		1	901	
			2.0	(1.0-4.0') URBAN FILL; BROWN-BLACK, F-C SAND, AND F-A GRAVEL, SOME BRICK, TRACE CINDER, LOOSE, MOIST, NO OORL			2	1450	
			3.0				3	1240	
			4.0				4	703	
4	8	GP	4.0	(4.0-5.5') SAME AS (4.0-4.0') INTERVAL, LOOSE, MOIST, NO OORL	2.5		5	601	
			5.0				6	649	
			6.0	(5.5-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OORL			7	754	
			7.0				8	814	
			8.0				9	797	
8	12	GP	8.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET C 9', NO OORL	3.2		10	672	
			9.0				11	679	
			10.0				12	664	
			11.0						sampled
			12.0	EOB C 12'					no more

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number K-18
Boring Drilled By, Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started MM/4 DD/19 YY11	Date Drilling Completed MM/4 DD/19 YY11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1507	End Time: 1522	Well Name N/A	Static Water Level 9' Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL SURFACE	2.0		1	796	
			2.0	(1.0-4.0') UNSAT FILL BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRNH, TRACE GRASS, LOOSE, MOIST, NO ODOR			2	1294	
			3.0				3	1164	
			4.0				4	1217	
4	8	GP	4.0	(4.0-6.0') SAME AS (1.0-4.0')	2.8		5	583	
			5.0	LITENAL, LOOSE, MOIST, NO ODOR			6	621	
			6.0				7	629	
			7.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR			8	647	
			8.0				9	736	
8	12	GP	8.0	(8.0-12.0')	3.1		10	698	
			9.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO ODOR			11	668	
			10.0				12	644	
			11.0						
			12.0	BOB @ 12'					

Sample
@ mark

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number K-20
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SUTO		Date Drilling Started MM/ 5 DD/ 2 YY 11	Date Drilling Completed MM/ 5 DD/ 2 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1028	End Time: 1040	Well Name: N/A	Static Water Level N/A Feet BGS
Project # 60158985	County Cook	City/Town/City/Or Village Chicago, IL		

Sample	From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
								Depth	CPM	Comments
	0	4	GP	0.0 - 0.5'	COARSE-SH. AND CA-6 GRAVEL SUBSOMAS	2.1		1	950	
				0.5 - 4.0'	UNSAT. FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO ODOM			2	1031	
								3	1016	
								4	665	
								5	641	
	4	8	GP	4.0 - 5.0'	BROWN FINE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM	2.8		6	693	
				5.0 - 8.0'	BROWN MEDIUM SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			7	652	
								8	733	
				8.0'	Base @ 8'					

S9711
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

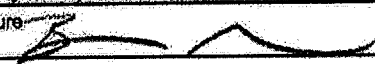
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number K-28
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: STO		Date Drilling Started MM/ DD/ YY 5/ 2/ 11	Date Drilling Completed MM/ DD/ YY 5/ 2/ 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1013	End Time: 1025	Well Name N/A	Static Water Level N/A Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/ID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	0.0-0.5'	CONCRETE AND CA-6 GRAVEL, SUBGRADE	2.3				
			1.0	(0.5-4.0') UNSAT FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRNH, TRACE GWSH, LOOSE, MOIST, NO ODOM			1	771	
			2.0				2	1051	
			3.0				3	732	
			4.0				4	612	
4	8	GP	4.0-5.0'	SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO ODOM	3.0		5	577	
			5.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			6	617	
			6.0				7	599	
			7.0				8	653	
			8.0						
			8.0	EOB @ 8'					
			9.0						
			10.0						
			11.0						
			12.0						

no sample

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number K-24	
Boring Drilled By: Name of crew chief (first, last) and Firm. First Name: JOHN Last Name: SOTU		Date Drilling Started		Date Drilling Completed	
Firm: Del Mar		MM 5 DD 2 YY 11		MM 5 DD 2 YY 11	
Start Time: 0952		End Time: 1004		Well Name: N/A	
Project # 60158985		County Cook		City/Town/City/er/Village Chicago, IL	
Static Water Level		Feet BGS		Borehole Diameter	
N/A		N/A		4.0 inches	

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 0.5'	CONCRETE AND CAST BRICK SURFACING	2.2				
			1.0	(0.5 - 4.0') SANDY FILL			1	999	
			2.0	BROWN-BLACK, F-C SAND AND F-FM GRAVEL, TRACE BRICK, TRACE GIBBER, LOW MOIST, NO OGRN			2	1254	
			3.0				3	988	
			4.0				4	657	
4	8	GP	4.0 - 5.5'	SAME AS (0.5 - 4.0') INTERVAL, LOW MOIST, NO OGRN	3.1		5	586	
			5.0				6	606	
			6.0	(5.5 - 8.0') BROWN NATIVE SAND, SW, F-FM SAND, TRACE F GRAVEL, LOW MOIST, NO OGRN			7	694	
			7.0				8	657	
			8.0	EOB @ 8'					
			9.0						
			10.0						
			11.0						
			12.0						

NO sample

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number L-2
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: SONG Last Name: SONG		Date Drilling Started MM 5 DD/ 2 YY 11	Date Drilling Completed MM 5 DD/ 2 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1413	End Time: 1425	Well Name: N/A	Static Water Level: 8' Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 1.0	(0-1') Brown Silty Clay Topsoil, Some Organic, Soft, Moist, No OGR	1.8		1	860	
			1.0 - 2.0	(1.0-4.0') USDA KILL: Brown - Black F-C SAND AND F-M GRAVEL, TRACE BARY, TRACE CLINCH, LOOSE, MOIST, NO OGR			2	926	
			2.0 - 3.0				3	933	
			3.0 - 4.0				4	801	
4	8	GP	4.0 - 5.0	(4.0-5.0') SAME AS (1.0-4.0') INTERNAL, LOOSE, MOIST, LITTLE RECOVERY, NO OGR	1.0		5	813	
			5.0 - 6.0	(5.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OGR			6	707	
			6.0 - 7.0				7	633	
			7.0 - 8.0				8	583	
8	12	GP	8.0 - 9.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, NET C 8', NO OGR			9	634	
			9.0 - 10.0				10	631	sampled
			10.0 - 11.0				11	506	@ non B
			11.0 - 12.0				12	507	
			12.0	(END) @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 80061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 2-11
Boring Drilled By Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar	MM/ 5 DD/ 2 YY 11	MM/ 5 DD/ 2 YY 11		
Start Time: 0830	End Time: 0840	Well Name N/A	Static Water Level N/A	Borehole Diameter 2.40 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample From (ft)	Sample To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 1.0	(0.0-0.5) CONCRETE AND CA-6 GRAVEL, SUGAR	2.7		1	807	
			1.0 - 2.0	(0.5-4.0) URBAN FILL: BROWN-BLACK, K-C SAND AND FINE GRAVEL, TRACE BRNH, TRACE CHLOR, LOOSE, MOIST, NO ODR			2	1298	
			2.0 - 3.0				3	1080	
			3.0 - 4.0				4	829	
4	8	GP	4.0 - 5.0	(4.0-5.0) SAME AS (0.5-4.0) INDURATED, LOOSE, MOIST, NO ODR	2.8		5	593	
			5.0 - 6.0	(5.0-8.0) BROWN NATIVE SAND, SW, FINE SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			6	705	
			6.0 - 7.0				7	718	
			7.0 - 8.0				8	607	
			8.0 - 12.0	COB C 8'					

no sample
||

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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Project Name Michael Reese		Client Michael Reese		Boring Number L-12	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOFO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe	
Firm: Del Mar		MM 4 DD/ 15 YY 11	MM 4 DD/ 15 YY 11		
Start Time: 1033	End Time: 1053	Well Name N/A	Static Water Level Feet BGS	Borehole Diameter 4 Inches	

Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL
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Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)	Sample Method					Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.4'		1	741	
			2.0	(1.0-4.0') - URBAN FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE CLAY, LOOSE, MOIST, NO OIL			2	1453	
			3.0				3	1395	
			4.0				4	1380	
			5.0				5	1321	
4	8	GP	6.0	(4.0-5.5') URBAN FILL: SAME AS (1.0-4.0') INTERVAL, BLACK HEAVY, LOOSE, MOIST, NO OIL	1.9'		6	774	
			7.0				7	772	
			8.0	(5.5-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OIL			8	725	
			9.0				9	713	
			10.0				10	607	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OIL	2.6		11	520	
			12.0	ASPH LIFT @ 9', NO OIL			12	551	
				GOOD @ 12'					

5 in plot
@ None

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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Project Name Michael Reese		Client Michael Reese		Boring Number L-13
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD 15 YY 11	Date Drilling Completed MM 4 DD 15 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0933	End Time: 0950	Well Name: N/A	Static Water Level: Feet BGS
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	3.0'		1	846	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CLUSTERS LOOSE, MOIST, NO OGR			2	6327	
			3.0				3	1689	
			4.0				4	903	
			5.0				5	656	
4	8	GP	6.0	(4.0-5.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OGR	2.5		6	735	
			7.0				7	817	
			8.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OGR			8	828	
			9.0				9	760	
			10.0				10	536	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 9', NO OGR	2.7		11	491	
			12.0	EOB @ 12'			12	578	

Scrapped
(E-5)

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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Project Name Michael Reese		Client Michael Reese		Boring Number L-14	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/4 DD/15 YY11	Date Drilling Completed MM/4 DD/15YY 11	Drilling Method Geoprobe	
Firm: Del Mar	Start Time: 0845	End Time: 0900	Well Name N/A	Static Water Level 10 Feet BGS	Borehole Diameter 1.4 inches

Project # 60158985	County Cook	Civil Town/City/Or Village Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SURGRADE	2.9		1	1611	BORING OFFSE ↑ 5', → 3' (ELECTRICAL/SE UTILITY)
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CINDERS, GRAVEL CA-6 LAYER FROM 3-4', LOOSE, MOIST, NO OODR			2	1959	
			3.0				3	641	
			4.0				4	548	
			5.0				5	570	
4	8	GP	5.0	4.0-6.0' FILL: CA-6 GRAVEL / CONCRETE LAYER LOOSE, MOIST, NO OODR	2.9		6	912	
			6.0				7	774	
			7.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODR			8	792	
			8.0				9	578	
8	12	GP	8.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET @ 10', NO OODR	2.9		10	655	
			9.0				11	638	
			10.0				12	612	
			11.0						
			12.0	EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

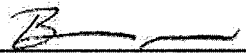
Project Name Michael Reese		Client Michael Reese		Boring Number L-15
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD/ 15 YY 11	MM 4 DD/ 15 YY 11	Geoprobe
Start Time: 0805	End Time: 0817	Well Name N/A	Static Water Level 10 Feet BGS	Borehole Diameter 4 1/4 Inches

Project # 60158985	County Cook	Civil Town/City/Or Village Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SURFACE	2.5		1	864	
			2.0	(1.0-4.0') UNDR FILL: BROWN-BLACK, F-M SAND, TRACE F GRAVEL, TRACE BRN, LOOSE, MOIST, NO ODR			2	2477	
			3.0				3	2266	
			4.0				4	2618	
			5.0				5	2015	
4	8	GP	6.0	(4.0-6.0') SAME AS (1.0-4.0') INTERVAL, TRACE CLUSTERS, TRACE GRANKS, LOOSE, MOIST, NO ODR			6	1468	
			7.0				7	1027	
			8.0	6.0-8.0' BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			8	806	
			9.0				9	722	
			10.0				10	612	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WEST @ 10', NO ODR	3.1		11	644	
			12.0	EOB @ 12'			12	651	

Sampled @ 3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 2-16
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: PETER Last Name: ROMERO		Date Drilling Started MM 4 DD/ 14 YY	Date Drilling Completed MM 4 DD/ 14 YY	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1435	End Time: 1450	Well Name: N/A	Static Water Level: 10 Feet BGS
Project #: 60158985	County: Cook	City/Town/City/Or Village: Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0.0 - 1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE (0.0-1.0')	2.2'		1	3359	
			1.0 - 4.0	URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE CLONDS, LOOSE, MOIST, NO OOR			2	14791	
			4.0 - 8.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOR	2.2		3	2821	
4	8	GP	8.0 - 10.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET < 10', NO OOR	2.2		4	1567	
			10.0 - 11.0				5	1321	
			11.0 - 12.0				6	1315	
8	12	GP	12.0				7	1222	
							8	1349	
							9	1266	
							10	912	
							11	679	
							12	682	sampled @ -2'
				EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 760 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number L-17	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD/ 13 YY 11	Date Drilling Completed MM 4 DD/ 13 YY 11		Drilling Method Geoprobe
Start Time: 1510	End Time: 1520	Well Name N/A	Static Water Level 10	Borehole Diameter 4.0 Inches	
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)			
From (ft)	To (ft)						Depth	CPM	Comments	
0	4	GP		ASPHALT AND GRAVEL SUBGRADE	2.7'		1	1877		
			1.0	(1.0'-4.0') URBAN FILL: BROWN - BLACK F-C SAND AND F-M GRAVEL, SOME CLINCHES, TRACE BRKH, LOOSE, MOIST, NO ODRN			2	8373		
			2.0				3	2074		
			3.0				4	1092		
			4.0				5	1060		
			4.0		(4.0'-7.0') SAME AS 1.0'-4.0' INTERVAL, LOOSE, MOIST, NO ODRN	2.4'		6	1013	
4	8	GP	5.0				7	1001		
			6.0				8	1396		
			7.0				9	841		
			7.0	(7.0'-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE GRAVEL, LOOSE, MOIST, NO ODRN				10	665	
			8.0				11	628		
8	12	GP	8.0		(8-12') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WFT, NO ODRN	3.0'		12	645	
			9.0							
			10.0							
			11.0							
			12.0	EOB @ 12'					SAMPLED AT: 2'	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number L-18
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD/ 13 YY 11	Date Drilling Completed MM 4 DD/ 13 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1432	End Time: 1440	Well Name N/A	Static Water Level 10 Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0-4.0	ASPHALT AND GRAVEL SUB GRADE (1.0-4.0') URBAN FILL: Brown-Black F-C SAND AND F-M GRAVEL, TRACE CONCRETE, LOOSE, MOIST, NO ODDN	2.3'		1	1005	
4	8	GP	4.0-8.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODDN	2.2		2	2280	
							3	1913	
							4	1036	
							5	822	
							6	890	
							7	856	
							8	937	
							9	805	
8	12	GP	8.0-12.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST , NO ODDN	2.8		10	630	
							11	652	
							12	690	

EOB @ 12'

SAMPLED AT:
2' + 4'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 760 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number L-19	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JGJ Last Name: SOTO				Date Drilling Started	Date Drilling Completed
Firm: Del Mar		MW 4 DD/13 YY11		MW 4 DD/13 YY 11	
Start Time: 1405	End Time: 1415	Well Name NIA	Static Water Level 10	Borehole Diameter 4 inches	
Feet BGS					

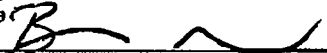
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0 - 1.0	Asphalt and Gravel Subgrade	2.6		1	832	
			1.0 - 4.0	(1.0'-4.0') Unsat Fill: Brown-Black F-F Sand and F-m Gravel, Trace Bacteria, Trace Gases, Loose, Moist, No ODR			2	1329	
			2.0				3	815	
			3.0				4	759	
			4.0				5	657	
4	8	GP	4.0 - 6.0	(4.0-6.0') Fill: Brown F-m Sand, Trace F Gravel, Trace Silt, Loose, Moist, No ODR, SW	2.0'		6	656	
			5.0				7	697	
			6.0				8	778	
			7.0				9	726	
			8.0				10	692	
			9.0				11	633	
8	12	GP	8.0 - 12.0	NATIVE SAND, SW, BROWN F-M SAND, TRACE F GRAVEL, LOOSE, WET, NO ODR	3.0		12	616	
			11.0						
			12.0						

EOB @ 12'

SAMPLED AT:
2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number L-20	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JIMJ Last Name: SOYO		Date Drilling Started MM 4 DD/13 YY 11	Date Drilling Completed MM 4 DD/13 YY 11		Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1325	End Time: 1340	Well Name N/A	Static Water Level 10 Feet BGS	Borehole Diameter 4 1/2 Inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample From (ft)	Sample To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND GRAVEL SUBGRADE	2.3		1	504	
			2.0	(1.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE CLAY, LOOSE, MOIST, NO ODOR			2	925	
			3.0				3	628	
			4.0				4	622	
			5.0				5	794	
4	8	GP	6.0	(4.0-6.0') INTERVAL SAME AS (1.0-4.0') LOOSE, MOIST, NO ODOR	2.1		6	740	
			7.0				7	793	
			8.0	(6.0-8.0') NATIVE SAND, SW, BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR			8	789	
			9.0				9	686	
			10.0				10	579	
8	12	GP	11.0	NATIVE SAND, SW, BROWN F-M SAND, TRACE F GRAVEL, LOOSE, WET, NO ODOR	1.9		11	581	
			12.0	EOB @ 12'			12	568	

SAMPLED AT 2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 6-21
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/4 DD/13 YY11	Date Drilling Completed MM/4 DD/13 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1105	End Time: 1130	Well Name N/A	Static Water Level 10 Feet BGS
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)			
							Depth	CPM	Comments	
0	4	GP	0-4	ASPHALT AND GRAVEL SUBGRADE	2.8'		1	540		
			1.0	(1'-4') URBAN FILL: BROWN-BLACK F-C SAND AND F-C GRAVEL, TRACE BAKED, TRACE CLONAS, LOOSE, MOIST, NO OOL			2	805		
			2.0					3	516	
			3.0					4	526	
			4.0					5	450	
			4.0		(4'-7') GREY F-C GRAVEL FILL AND BROWN F-M SAND, LOOSE, MOIST, NO OOL	1.9'		6	480	
4	8	GP	4.0-8.0				7	662		
			6.0				8	765		
			7.0	(7'-8') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOL			9	717		
			8.0				10	673		
8	12	GP	8.0-12.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOL	3.0'		11	606		
			9.0				12	660		
			10.0							
			11.0							
			12.0							

SAMPLED AT:
2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
760 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number L-22
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOYO		Date Drilling Started MM 4 DD/13 YY 11	Date Drilling Completed MM 4 DD/13 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1030	End Time: 1035	Well Name N/A	Static Water Level 10 Feet BGS
Project # 60158985		County Cook	CMI Town/City/Village Chicago, IL	

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0-1'	ASPHALT AND GRAVEL SUBGRADE	2.6'		1	490	
			1-4'	FILL: BROWN F-C SAND AND F-C GRAVEL, LOOSE, MOIST, NO ODDN			2	833	
							3	613	
							4	530	
							5	508	
4	8	GP	4'-7'	SAME AS (1'-4') INTERVAL, LOOSE, MOIST, NO ODDN	2.1'		6	470	
							7	604	
							8	694	
			7'-8'	BROWN NATIVE SAND, SW, FIRM SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODDN			9	705	
8	12	GP		BROWN NATIVE SAND, SW, FIRM SAND, TRACE F GRAVEL, LOOSE, MOIST TO WET, NO ODDN	2.9'		10	617	
							11	598	
							12	653	
				EOB @ 12'					

SAMPLED AT:
2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 6-23	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Jolin Last Name: Soto		Date Drilling Started MM 4 DD/ 13 YY 11	Date Drilling Completed MM 4 DD/ 13 YY 11	Drilling Method Geoprobe	
Firm: Del Mar	Start Time: 0935	End Time: 0950	Well Name N/A	Static Water Level 10	Borehole Diameter 4 Inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL			

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT & GRAVEL SUBGRADE (1.0' - 4.0') Fill: BROWN-BLACK F-M SAND AND F-C GRAVEL, TRACE BRICKS, LOOSE, MOIST, NO OODN	2.8'		1	518	OFFSET BORING ← 5', ↑ 5' (SEWER UTILITY)
		2	761						
		3	576						
		4	505						
4	8	GP	4.0	(4.0' - 6.0') CA-6 F-C GRAVEL BACKFILL, LOOSE, DRY, NO OODN	2.7'		5	463	
		6	421						
		7	636						
		8	710						
			6.0	(6.0' - 8.0') NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OODN			9	675	
			7.0						
			8.0						
			9.0						
8	12	GP	8.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST TO WET, NO OODN EOB @ 12'	3.0'		10	596	
			9.0						
			10.0						
			11.0						
			12.0				11	653	
							12	573	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

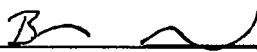
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number L-24	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started MM/4 DD/12 YY11	Date Drilling Completed MM/4 DD/12 YY 11	Drilling Method Geoprobe	
Firm: Del Mar	Start Time: 1455	End Time: 1545	Well Name N/A	Static Water Level 11 Feet BGS	Borehole Diameter 4 Inches

Project # 60158985	County Cook	City/Town/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-1.0'	ASPHALT AND GRAVEL SUBGRADE	2.5'		1	459	
			1.0'-4.0'	URBAN FILL BROWN-BLACK, F-G SAND AND FINE GRAVEL, SOME CLUSTERS, TANGY DIRT, LOOSE, MOIST, NO ODM			2	652	
							3	750	
							4	641	
							5	549	
4	8	GP	4.0'-8.0'	SAND AT (1.0-4.0') INTERMEDIATE, LOOSE, MOIST, NO ODM	2.0'		6	498	
							7	620	
							8	703	
							9	771	
							10	632	
8	12	GP	8.0'-12.0'	NATIVE SAND, SW, BROWN FINE SAND, TANGY FINE SAND, LIGHT, MOIST TO WET, NO ODM BOB @ 12'	3.0'		11	554	COND. BASEMENT PAD
							12	616	INITIAL CONSTRUCTION @ 8' RE-DRILLED TO ODOM

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 6-25	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto			Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar			MM 4 DD/ 12 YY 11	MM 4 DD/ 12 YY 11	Geoprobe
Start Time: 1350	End Time: 1410	Well Name NIA	Static Water Level 11	Feet BGS	Borehole Diameter 4 4 inches


Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downtole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	ASPHALT AND GRAVE SUGAR	2.9'		1	417	
			1.0	(0.5'-4.0') URBAN FILL; BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE GLASS, LOOSE, MOIST, NO OOL			2	441	
			2.0				3	880	
			3.0				4	623	
			4.0				5	546	
4	8	GP	4.0-5.0'	SAND AS 0.5'-4.0' (INTERM) LOOSE MOIST, NO OOL	3.0'		6	598	
			5.0				7	699	
			6.0	(5.0'-8.0') NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOL			8	730	
			7.0				9	726	
			8.0				10	624	
8	12	GP	8.0-9.0'	NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST TO HT, NO OOL	3.5'		11	638	
			9.0				12	601	
			10.0						
			11.0						
			12.0						

EOB @ 12'

SAMPLED AT:
3' + 8'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number L-26
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Seto		Date Drilling Started MW 4 DD/ 12 YY 11	Date Drilling Completed MW 4 DD/ 12 YY 11	Drilling Method Geoprobe
Start Time: 0940	End Time: 1000	Well Name N/A	Static Water Level 11 Feet BGS	Borehole Diameter 4 Inches


Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample From (ft)	Sample To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT & GRAVEL SUBGRADE, LOOSE, MOIST, NO ODOM	2.0'		1	434	
			2.0	URBAN FILL: BROWN-BLACK F-C SANDS AND P-M GRAVEL, TRACE SILT, TRACE CLAY, LOOSE, MOIST, NO ODOM			2	842	
			3.0				3	652	
			4.0				4	696	
			5.0				5	673	
			6.0				6	796	
			7.0				7	688	
4	8	GP	8.0	SAME AS 1.0'-4.0' INTERVAL, LOOSE, MOIST, NO ODOM	1.6'		8	692	
			9.0				9	743	
			10.0				10	711	
			11.0				11	599	
			12.0				12	661	
8	12		9.0	SAME AS 1.0-8.0' INTERVAL, LOOSE, MOIST, NO ODOM	2.5'				
			10.0						
			11.0	NATIVE SAND, SW, BROWN P-M SAND, TRACE F GRAVEL, LOOSE, MOIST TO WET, NO ODOM					
			12.0	EOB @ 12'					

CONC. BASEMENT PAD INITIAL CONSTRUCTION @ 8' RES. DRAINED TO PERM

SAMPLED AT: 2'+9'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 27
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD/11 YY 11	Date Drilling Completed MM 4 DD/11 YY 10 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1040	End Time: 1220	Well Name N/A	Static Water Level Feet BGS
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	
Borehole Diameter -2 inches				

Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)			
From (ft)	To (ft)	Sample Method					Depth	CPM	Comments	
0	4	GP	1.0	Asphalt & Subgrade	2'		1	453		
			2.0		URBAN FILL, F-C SAND W/ F-M GRAVEL, SOME BRICKS, SOME CEMENT, LOOSE, MOIST, NO ODOOR			2	930	0.054 uCi/hr
			3.0					3	1116	1188
			4.0					4	1154	1233
			5.0					5	1037	1132
4	8	GP	6.0	4'-8', SAND AT 1'-4' INTERVAL, LOOSE, MOIST, NO ODOOR	1'		6	919	945	
			7.0				7	699	746	
			8.0				8	609		
			9.0				9	726		
			10.0				10	544		
			11.0				End			
8	12	GP	12.0	BROWN F-M SAND W/ F-M GRAV, LOOSE, MOIST, NO ODOOR, SW	1.3'					
										COND. BASINANT PAD / INITIAL OBSTRUCTION @ 8' RE-PAVING TO DEPTH

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number M-12	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto				Date Drilling Started MM/4 DD/28 YY 11	Date Drilling Completed MM/4 DD/28 YY 11
Firm: Del Mar		Static Water Level N/A		Drilling Method Geoprobe	
Start Time: 0958	End Time: 1007	Well Name: NIA	Feet BGS N/A	Borehole Diameter 2.4 inches	

Project #: 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	CONCRETE AND C&G GRAVEL, SUBGRADES	2.4		1	874	
			1.0	(0.5-4.0') URBAN FILL; BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BAKH, TRACE CINOBH, LOOSE, MOIST, NO OGRN			2	1547	
			2.0				3	915	
			3.0				4	864	
			4.0				5	622	
4	8	GP	4.0-5.0'	SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO OGRN	2.8		6	624	
			5.0-8.0'	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OGRN			7	711	
			8.0	EOB @ 8'			8	631	
			9.0						sampled @ - 2'
			10.0						
			11.0						
			12.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number M-13	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto Firm: Del Mar				Date Drilling Started MM/ 4 DD/ 28 YY 11	Date Drilling Completed MM/ 4 DD/ 28 YY 11
Start Time: 1015		End Time: 1027		Well Name NIA	
		Static Water Level N/A		Borehole Diameter 4 1/2 inches	

Project # 60158985	County Cook	Civil Town/City/lor Village Chicago, IL
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Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)	Sample Method					Depth	CPM	Comments
0	4	GP	1.0	(0-1') ASPHALT AND CA-6 GRAVEL SUBGRADE	2.1		1	584	BORING OFFSET ↑ 5' (WATER + ELECTRIC UTILITY)
			2.0	(1.0-4.0') UNSAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO OOR			2	1149	
			3.0				3	1030	
			4.0				4	917	
			5.0	(4.0-4.5') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OOR	2.1		5	889	
			6.0	(4.5-8.0') BROWN NATIVE SAND, SW, F-M SAND, SOME C SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOR			6	934	
			7.0				7	676	
			8.0				8	571	
			8.0	EOB @ 8'					

sampled @ none

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number M-14
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/4 DD/15 YY11	Date Drilling Completed MM/4 DD/15 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0915	End Time: 0925	Well Name N/A	Static Water Level 9' Feet BGS
Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	2.3'		1	762	
			2.0	(1.0'-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO ODN			2	2772	
			3.0				3	5732	
			4.0				4	2228	
			5.0				5	1390	
4	8	GP	6.0	(4.0-5.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO ODN	2.4'		6	1185	
			7.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, TRACE C SAND, TRACE ORGANKS, LOOSE, MOIST, NO ODN			7	989	
			8.0				8	674	
			9.0				9	699	
8	12	GP	10.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVELS, LOOSE WET @ 9', NO ODN	2.9		10	670	
			11.0				11	606	
			12.0				12	659	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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Handwritten notes:
10, 11, 12
6-3'

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number M-15	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD 15 YY 11		Date Drilling Completed MM 4 DD 15 YY 11	
Firm: Del Mar		Static Water Level 10 Feet BGS		Drilling Method Geoprobe	
Start Time: 0825		End Time: 0835		Well Name N/A	
Project # 60158985		County Cook		Civil Town/City/Village Chicago, IL	

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND CA-6 GRAVEL SUBGRADE	3.0				
			1.0-4.0'	UNOAS FILL: BROWN-BLACK, F-M SAND, TRACE F GRAVEL, TRACE C SAND, TRACE CLONDS, LOOSE, MOIST, NO OOLN					
			2.0					5054	
			3.0					4090	
			4.0					3554	
			5.0					2419	
4	8	GP	4.0-5.0'	(4.0-5.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OOLN	1.5				
			6.0					1854	
			7.0					1022	
			8.0					854	
			9.0					676	
8	12	GP	8.0-12.0'	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, TRACE C SAND, LOOSE, MOIST, NO OOLN	3.0				
			10.0					762	
			11.0					651	
			12.0					653	
				END @ 12'					

sampled
(0-2'-3)

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number M-16	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: PETER Last Name: ROMERO		Date Drilling Started MM 4 DD/ 14 YY 11	Date Drilling Completed MM 4 DD/ 14 YY 11	Drilling Method Geoprobe	
Start Time 1455	End Time 1510	Well Name N/A	Static Water Level 10	Feet BGS	Borehole Diameter 2.4 Inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL			

Sample From (ft)	Sample To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	0.0 - 1.0	(0.0-1.0') ASPHALT AND CA-6 GRAVEL SUBGRADE	2.7		1	4231	
			1.0 - 2.0	(1.0-4.0') URBAN FILL: BROWN BRUSH, F-C SAND AND F-M GRAVEL, TRACE BRUSH, TRACE CINOBEL, LOOSE, MOIST, NO ODR			2	10117	
			2.0 - 3.0				3	3584	
			3.0 - 4.0				4	2105	
			4.0 - 5.0				5	1699	
			5.0 - 6.0				6	1457	
4	8	GP	4.0 - 8.0	(4.0'-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE P-GRAVEL, TRACE C SAND, LOOSE, MOIST, NO ODR	2.4		7	1333	
			6.0 - 7.0				8	1191	
			7.0 - 8.0				9	692	
			8.0 - 9.0				10	613	
			9.0 - 10.0				11	665	
8	12	GP	8.0 - 12.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE P-GRAVEL, LOOSE, WET @ 10', NO ODR	3.1'		12	700	
			10.0 - 11.0						
			11.0 - 12.0						
			12.0	EOB @ 12'					

Sampled @ -2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number M-17	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD/13 YY 11		Date Drilling Completed MM 4 DD/13 YY 11	
Firm: Del Mar		Static Water Level 10 Feet BGS		Drilling Method Geoprobe	
Start Time: 1450		End Time: 1500		Borehole Diameter 4 Inches	
Well Name N/A		CMI Town/City/Village Chicago, IL			


Project # 60158985	County Cook	CMI Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND GRAVEL SURFACES	2.7'		1	895	SOIL BORING OFFSET ← 3' (GAS UTILITY)
			2.0	(1.0'-4.0') URBAN FILL: BROWN - BLACK F-C SAND AND F-M GRAVEL, TRACE BRICKS, TRACE CLUSTERS, LOOSE, MOIST, NO OOLN			2	2649	
			3.0				3	1044	
			4.0				4	767	
			5.0				5	779	
4	8	GP	6.0	(4.0'-5.0') SAME AS (1.0'-4.0') INTERVAL, LOOSE, MOIST, NO OOLN	2.9'		6	851	
			7.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOLN			7	866	
			8.0				8	821	
			9.0				9	797	
			10.0				10	657	
8	12	GP	11.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET, NO OOLN	3.1'		11	641	
			12.0				12	608	

EOB @ 12'

SAMPLED AT: 2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM


Project Name Michael Reese		Client Michael Reese		Boring Number M-18	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD/ 13 YY 11	Date Drilling Completed MM 4 DD/ 13 YY 11	Drilling Method Geoprobe	
Firm: Del Mar	Start Time: 1420	End Time: 1428	Well Name N/A	Static Water Level 10 Feet BGS	Borehole Diameter 4.4 Inches

Project # 60158985	County Cook	CMI Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	GPM	Comments
0	4	GP	0-4.0	ASPHALT AND GRAVEL SUBGRADE	2.9'		1	1127	
			4.0-8.0	(1.0'-4.0') URBAN FILL; BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE BLKCS, TRACE CLWDRN, LOOSE, MOIST, NO COON			2	5109	
							3	1567	
							4	775	
							5	798	
4	8	GP	4.0-8.0	(4.0'-5.0') Same AS (1.0'-4.0') INTERVAL, LOOSE, MOIST, NO COON	2.9'		6	803	
			8.0-12.0	(5.0'-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO COON			7	787	
							8	835	
							9	867	
							10	674	
8	12	GP	8.0-12.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET, NO COON	3.0'		11	598	
							12	647	
				EOB @ 12'					

SAMPLED AT:
2' + 6'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

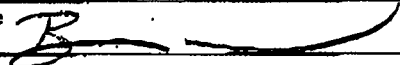
Project Name Michael Reese		Client Michael Reese		Boring Number M-19
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started MM 4 DD/ 13 YY 11	Date Drilling Completed MM 4 DD/ 13 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1345	End Time: 1355	Well Name N/A	Static Water Level 0 Feet BGS
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/ID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0 - 1.0	ASPHALT AND GRAVEL SUBGRADE	2.8		1	995	
			1.0 - 4.0	(1.0'-4.0') URBAN FILL: BROWN-BLACK F-C SANDS AND F-M GRAVEL, TRACE BAUXITE, TRACE CLAYST, LOOSE, MOIST, NO ODR			2	3485	
			4.0 - 5.0	(4.0'-5.0') SAME AS (1.0'-4.0') INTERVAL, SOME BAUXITE, LOOSE, MOIST, NO ODR	2.9		3	2475	
4	8	GP	5.0 - 8.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			4	1244	
			8.0 - 9.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET, NO ODR	2.9		5	824	
			9.0 - 10.0				6	819	
			10.0 - 11.0				7	791	
			11.0 - 12.0				8	827	
8	12	GP	12.0				9	916	
							10	671	
							11	650	
							12	621	

SAMPLED AT:
2' & 3'

EOB @ 12'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

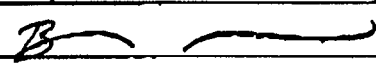
Project Name Michael Reese		Client Michael Reese		Boring Number M-20	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started MW 4 DD/ 13 YY 11	Date Drilling Completed MW 4 DD/ 13 YY 11	Drilling Method Geoprobe	
Start Time: 1130	End Time: 1145	Well Name N/A	Static Water Level 10	Borehole Diameter 4.4 Inches	

Project # 60158905	County Cook	CMI Town/City/Village Chicago, IL
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Sample From (ft)	Sample To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	ASPHALT AND GRAVEL SUBGRADE	2.8'		1	960	
			2.0	(1'-4') UNOAS FILL: BROWN - BLACK F-C SANDS AND F-M GRAVELS, LOOSE, MOIST, TRACE BRICKS, TRACE GIBBER, NO ODRN			2	4102	
			3.0				3	1181	
			4.0				4	670	
			5.0				5	698	
4	8	GP	6.0	(4'-5') SAME AS (1'-4') INTERVAL, LOOSE, MOIST, NO ODRN	2.7'		6	661	
			7.0				7	749	
			8.0	(5'-8') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODRN			8	747	
			9.0				9	762	
			10.0				10	664	
8	12	GP	11.0	BROWN NATIVE SAND, F-M SAND, TRACE F GRAVEL, SW, LOOSE, MOIST, NO ODRN	2.9'		11	605	
			12.0				12	606	

SAMPLED AT:
2' + 3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

SOIL BORING LOG INFORMATION



Project Name Michael Reese		Client Michael Reese		Boring Number M-21	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD/ 13 YY 11	Date Drilling Completed MM 4 DD/ 13 YY 11	Drilling Method Geoprobe	
Start Time: 1045	End Time: 1100	Well Name: N/A	Static Water Level: 10 Feet BGS	Borehole Diameter 4 1/4 inches	

Project # 60158985	County Cook	City/Town/Village Chicago, IL
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Sample From (ft)	Sample To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-1	ASPHALT AND GRAVEL SUBGRADE	2.7'		1	880	
			1-4	URBAN FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO ODR			2	1996	
			2.0				3	860	
			3.0				4	620	
			4.0				5	683	
4	8	GP	4-5	SAME AS (1'-4') LATERAL, LOOSE, MOIST, NO ODR	2.9'		6	587	
			5-8	BROWN NATIVE SAND, F-M SAND, TRACE C SAND, SW, TRACE B GRAVEL, LOOSE, MOIST, NO ODR			7	667	
			6.0				8	708	
			7.0				9	685	
8	12	GP	8-12	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST TO WET, NO ODR	3.0'		10	649	
			8.0				11	580	
			10.0				12	521	
			11.0						
			12.0						

SAMPLED AT:
2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

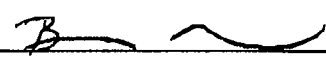
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number M-22	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTU		Date Drilling Started MM 4 DD/ 13 YY 11	Date Drilling Completed MM 4 DD/ 13 YY 11	Drilling Method Geoprobe	
Firm: Dal Mar	Start Time: 1000	End Time: 1015	Well Name N/A	Static Water Level 10	Borehole Diameter 4 1/4 Inches
Project # 60158985	County Cook	City/Town/City/Village Chicago, IL			

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 1.0'	ASPHALT AND GRAVEL SUBGRADE	27'		1	788	
			1.0 - 4.0'	UNGRAV FILL BROWN-BLACK F-F SAND AND F-M GRAVEL, TRACE BITUM, TRACE CHLOR, LOOSE, MOIST, NO OIL			2	2956	
			2.0				3	858	
			3.0				4	583	
			4.0				5	634	
4	8	GP	4.0 - 5.0'	SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OIL	26'		6	648	
			5.0 - 8.0'	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OIL			7	609	
			6.0				8	696	
			7.0				9	680	
			8.0				10	691	
8	12	GP	8.0 - 12.0'	NATIVE SAND, F-M SAND, SW, TRACE F GRAVEL, LOOSE, MOIST TO V. HT, NO OIL	30'		11	576	
			9.0				12	572	
			10.0						
			11.0						
			12.0						

SAMPLED AT:
2' & 3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

SOIL BORING LOG INFORMATION



Project Name Michael Reese		Client Michael Reese		Boring Number M-23
Boring Drilled by: Name of crew chief (first, last) and Firm First Name: J.H.S. Last Name: SOTI		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM 4 DD/13 YY11	MM 4 DD/13 YY 11	
Start Time: 0915	End Time: 0925	Well Name N/A	Static Water Level 10 Feet BGS	Borehole Diameter 1.4 Inches
Project # 60158985	County Cook	CMI Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	10	ASPHALT AND GRAVEL SUBGRADE	2.8'		1	901	
			10	(10'-4.0')			2	1437	
			2.0	FILL: F-M SAND, SW, TRACE GRAVEL, LOOSE, MOIST, NO ODN			3	1016	
			3.0				4	1143	
			4.0				5	1876	
4	8	GP	4.0	FILL: BROWN F-M SAND, SW, TRACE GRAVELS, TRACE SILTY CLAYS, LOOSE, MOIST, NO ODN	1.9'		6	1410	
			5.0				7	777	
			6.0				8	652	
			7.0				9	671	
			8.0				10	627	
8	12	GP	8.0	NATIVE SAND BROWN F-M SAND, SW, TRACE GRAVELS, LOOSE, MOIST TO WET, NO ODN	3.0'		11	637	
			9.0				12	591	
			10.0						
			11.0						
			12.0						

COB @ 12'

SAMPLED AT:
2' & 5'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number M-24	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: SITB		Date Drilling Started MM 4 DD/13 YY11		Date Drilling Completed MM 4 DD/13 YY11	
Firm: Del Mar		MW 4 DD/13 YY11		Geoprobe	
Start Time: 0840		End Time: 0905		Well Name N/A	
		Static Water Level 11		Borehole Diameter 4 1/4 inches	
Project # 60158885		County Cook		Civil Town/City/Village Chicago, IL	

Sample From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-1.0	(0-1') ASPHALT & SUBGRADE	3.0'		1	961	
			1.0-4.0	(1-4') URAN-FILL BROWN-BLACK F-C SAND AND F GRAVEL, TRACE BRICKS, TRACE CLONEST, LOOSE, MOIST, NO ODR			2	1833	
			2.0				3	665	
			3.0				4	563	
			4.0				5	587	
4	8	GP	4.0-5.0	(4.0-5.0') SAME AS (1-4') INTERVAL LOOSE, MOIST, NO ODR	3.2'		6	668	
			6.0				7	640	
			8.0	NATIVE SAND, SW, BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR			8	706	
			9.0				9	718	
			10.0				10	647	
			11.0				11	634	
8	12	GP	8.0-12.0	NATIVE SAND, SW, BROWN F-M SAND, TRACE F GRAVEL, LOOSE, MOIST TO WET, NO ODR	4.0'		12	578	
			11.0	E00 C 12'					SAMPLED AT: 2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION



Project Name Michael Reese		Client Michael Reese		Boring Number M-25	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD/12 YY 11		Date Drilling Completed MM 4 DD/12 YY 11	
Firm: Del Mar		Static Water Level 1.1 Feet BGS		Drilling Method Geoprobe	
Start Time: 1320		End Time: 1345		Well Name N/A	
Project # 60158985		County Cook		Civil Town/City/Village Chicago, IL	

Sample From (F)	To (F)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)			
							Depth	CPM	Comments	
0	4	GP	0-0.5'	ASPHALT AND GRAVEL SUBGRADE	2.6'		1	956		
			1.0	0.5-4.0' - VARIAN P-101 BROWN-BLACK F-C SANDS AND F GRAVELS, TRACE BRICK, TRACE GLASS, LOOSE, MOIST, NO ODOR			2	998		
			2.0				3	654		
			3.0				4	663		
			4.0				5	756		
			5.0				6	948		
4	8	GP	6.0	NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR	1.8'		7	1071		
			7.0					8	635	
			8.0					9	752	
			9.0					10	657	
			10.0					11	687	
			11.0					12	650	
8	12	GP	12.0	NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST TO WET, NO ODOR EOB @ 12'	3.1'					

SAMPLED AT:
2' + 6'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>B</i>	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

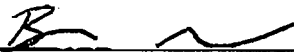
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number M-26	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOW Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe	
Firm: Del Mar		MM 4 DD/12 YY 11	MM 4 DD/12 YY 11		
Start Time: 1230	End Time: 1310	Well Name N/A	Static Water Level N/A	Borehole Diameter 4 Inches	
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL		

Sample From (ft)	Sample To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	ASPHALT AND GRAVEL SUBGRADE	2.7'		1	705	
			0.5-4.0'	URBAN FILL BROWN-DRY F-C SAND AND F-M GRAVEL, TRACE BLIGHT, TRACE CEMENT, LOOSE, MOIST, NO ORGAN			2	709	
							3	744	
							4	740	
							5	750	
							6	699	
4	8	GP	4.0-5.0'	SAME AS 0.5'-4.0' INTERVAL, LOOSE, MOIST, NO ORGAN	1.6'		7	663	
							8	638	
							9	698	
							10	637	
							11	621	
8	12	GP	8.0-9.0'	(8.0-9.0') SAME AS (0.5'-8.0') INTERVAL, MOIST LOOSE, NO ORGAN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ORGAN	2.7'		12	642	

COJC. PASPENT PAP
INITIAL
OBTAINING C 8'
RE-DRILL TO
DEPTH

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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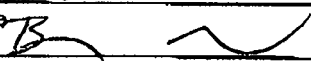
SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number M-27
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name:		Date Drilling Started MM/YY DD/YY	Date Drilling Completed MM/YY DD/YY	Drilling Method Geoprobe
Firm: Del Mar		MM/YY DD/YY	MM/YY DD/YY	
Start Time: 1755	End Time: 1305	Well Name N/A	Static Water Level 11' 3"	Borehole Diameter -2 inches
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4'	GP	0-1'	SUBGRADE, ASPHALT	2.5'		1'	540	
			1.0				2'	642	
			2.0	1-4' URBAN FILL - F-C SAND/F-M GRAVEL, LOOSE, MOIST, NO COAR			3'	495	
			3.0				4'	504	
			4.0				5'	459	
			5.0				6'	462	
4	8	GP	6.0	SAME AS 1-4' INTERVAL, LOOSE, MOIST, NO COAR	1.5'		7'	433	
			7.0				8'	440	
			8.0				9'	532	
			9.0				10'	482	
			10.0				11'	616	
			11.0				12'	575	
8	12	GP	12.0	SAME AS 1-8' INTERVAL, LOOSE, MOIST, NO COAR	1.5'				
				NATIVE SAND, SW, BROWN F-M SAND, TRACT F GRAVELS, LOOSE, WET, NO COAR					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-9
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SETO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/4 DD/29 YY	MM/4 DD/29 YY	Geoprobe
Start Time: 1437	End Time: 1450	Well Name: N/A	Static Water Level: 8 Feet BGS	Borehole Diameter: 2 1/4 inches
Project #: 60158985	County: Cook	Civil Town/City/Village: Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	1.0	Black Silty Clay, TOPSOIL, SOME ORGANICS, SOFT, MOIST, NO ODOR	2.4		1	1033	
			2.0	(1.0-4.0') USAN FILL; BROWN-BLACK, F-C SAND, AND F-MG MUSSEL, TRACE BRNH, TRACE CINDER, LOOSE, MOIST, NO ODOR			2	925	
			3.0				3	712	
			4.0				4	966	
4	8	GP	4.0	(4.0-8.0') SAME AS (1.0-4.0') INTERVAL, LITTLE RECOVERY, LOOSE, MOIST, NO ODOR	0.8		5	1337	
			5.0				6	1529	
			6.0				7	1216	
			7.0				8	648	
			8.0				9	571	
8	12	GP	8.0	(8.0-9.0') USAN FILL; SAME AS (1.0-8.0') INTERVAL, LOOSE, WET @ 8', NO ODOR	2.6		10	531	
			9.0				11	567	
			10.0	(9.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F MUSSEL, WET, LOOSE, NO ODOR			12	595	
			11.0						Samples @ none
			12.0	END @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-13
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/4 DD/29 YY 11	Date Drilling Completed MM/4 DD/29 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1121	End Time: 1155	Well Name N/A	Static Water Level: N/A Feet BGS
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Black silty clay top soil, some organic, soft, moist, no odor	2.3		1	1216	REARSA @ 5' (TREE)
			2.0	(1.0-4.0') Urban fill; Brown-black, F-C sand, and F-M gravel, trace brick, trace glass, loose, moist, no odor			2	1139	REARSA AGAIN @ 5' (TREE)
			3.0				3	748	BORING MOVED ↓ 6'
			4.0				4	631	
4	8	GP	5.0	(4.0-5.0') SAME AS (1.0-4.0') URBAN, loose, moist, no odor	3.0		5	634	
			6.0	(5.0-8.0') Brown natural sand, silty, F-M sand, trace F gravel, some C sand, loose, moist, no odor			6	549	
			7.0				7	541	
			8.0				8	507	
			9.0	EOB @ 8'					
			10.0						
			11.0						
			12.0						

signed
@ none

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
760 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-14	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started		Date Drilling Completed	
Firm: Del Mar		MM/4 DD/28 YY11		MM/4 DD/28 YY 11	
Start Time: 0926		End Time: 0944		Well Name NIA	
		Static Water Level 9'		Feet BGS	
				Borehole Diameter 4 1/2 inches	

Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	CONCRETE AND CA-6 GRANULE SUBGRADE	2.4		1	1481	
			1.0	(0.5-4.0') UNDERFILL: BROWN-BLACK FINE SAND AND FINE GRANULE, SOME BRICK, TRACE GIBBER, LOOSE, MOIST, NO OIL			2	1106	
			2.0				3	882	
			3.0				4	658	
			4.0				5	766	
			4.0				6	829	
4	8	GP	4.0-7.0'	UNDER FILL: SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO OIL	2.1		7	627	
			5.0	(7.0-8.0') BROWN NATIVE SAND, SW, FINE SAND, TRACE FINE GRANULE, LOOSE, MOIST, NO OIL			8	554	
			6.0				9	527	
			7.0				10	603	
8	12	GP	8.0-12.0'	BROWN NATIVE SAND, SW, FINE SAND, TRACE FINE GRANULE, LOOSE, WET @ 9', NO OIL	3.0		11	672	
			9.0	END @ 12'			12	684	Signed @ -1'
			10.0						
			11.0						
			12.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-15	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD 28 YY 11		Date Drilling Completed MM 4 DD 28 YY 11	
Firm: Del Mar		Static Water Level 4 Feet BGS		Drilling Method Geoprobe	
Start Time: 0835	End Time: 0920	Well Name N/A	Borehole Diameter 4 inches		

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0-0.5'	CONCRETE AND CA-6 GRANULE SUBGRADE	2.4		1	1020	RETRIAL @ 8' (WOOD)
			0.5-4.0'	UNSAT FILL: BROWN-BLACK, F-C SAND AND F-M GRANULE, TRACE BRICK, TRACE GIBBER, LOOSE, MOIST, NO ODD			2	1576	BORING MOVED ↑
							3	1343	RETRIAL @ 8'
							4	1012	AGAIN BORING MOVED ← 2' FROM ORIGINAL LOCATE.
							5	753	RETRIAL @ 8'
4	8	GP	4.0-8.0'	UNSAT FILL: BROWN-BLACK, F-C SAND AND F-M GRANULE, TRACE BRICK, TRACE GIBBER, LOOSE, NET, NO ODD	2.5		6	661	ON 3RD ATTEMPT
							7	622	
							8	537	
			8.0-	COB @ 8'					Sampled @ none

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

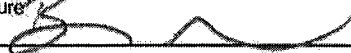
Project Name Michael Reese		Client Michael Reese		Boring Number N-16
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ DD/ YY 4 DD/ 27 YY 11	MM/ DD/ YY 4 DD/ 27 YY 11	Geoprobe
Start Time: 1457	End Time: 1517	Well Name N/A	Static Water Level N/A Feet BGS	Borehole Diameter 4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	CONCRETE AND CA-6 GRAVEL SUBGRADES	2.3		1	2482	
			1.0	(0.5-4.0') UNSAT. FINE: BROWN-BLACK, FINE SAND AND FINE GRAVEL, LOOSE, MOIST, NO OIL, SOME BAKH, TRACE CINCH			2	4980	
			2.0				3	20527	
			3.0				4	4281	
			4.0				5	2335	
4	8	GP	(4.0-6.0')	SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO OIL	2.7		6	1731	
			5.0	(6.0-8.0') BROWN MOTTLE SAND, SW, FINE SAND, TRACE F. GRAVEL, LOOSE, MOIST, NO OIL			7	1738	
			6.0				8	1671	
			7.0						
			8.0						
			9.0						
			10.0						
			11.0						
			12.0	EOB @ 8'					

Sample @ -3

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

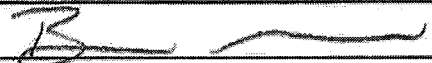
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-17
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: STO		Date Drilling Started MM/4 DD/27 YY11	Date Drilling Completed MM/4 DD/27 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1440	End Time: 1450	Well Name: N/A	Static Water Level Feet BGS
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	

Sample	From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
								Depth	CPM	Comments
	0	4	GP	1.0	(0-0.5') CONCRETE AND CA-6 GRAVEL SANDWICH	2.5		1	3760	BORING OFFSET ← 5' (GAS UTILITY)
				2.0	(0.5-4.0') UNDRY MTL: BROWN-DRY F-C SAND AND F-M GRAVEL, TRACE BALK, TRACE CINDER, LOOSE, MIST, NO OOLN			2	5976	
				3.0				3	4108	
				4.0				4	1710	
	4	8	GP	5.0	(4.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE R GRAVEL, LOOSE, MIST, NO OOLN	1.8		5	1704	
				6.0				6	1966	
				7.0				7	1807	
				8.0				8	1593	
				8.0	END @ 8'					

SAMPLES @ -2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-18	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO			Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar			MM/ 4 DD/ 27 YY 11	MM/ 4 DD/ 27 YY 11	Geoprobe
Start Time: 1404	End Time: 1432	Well Name N/A	Static Water Level 9'	Borehole Diameter 4 1/4 inches	

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0.0-0.5'	CONCRETE AND CA-6 GRAVEL	2.5		1	7564	
			1.0	(0.5-4.0') WASH FILL: BROWN-BLACK F-C SAND AND FINE GRAVEL, TRACE BLACK, TRACE CLAY, LOOSE, MOIST, NO ODM			2	7600	
			2.0				3	1846	
			3.0				4	772	
			4.0				5	508	
			4.0		(4.0-7.0') CA-6 / CONCRETE INTERVAL, MOIST, NO ODM	3.3		6	502
			5.0				7	728	
			6.0				8	754	
			7.0	(7.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODM			9	689	
			8.0				10	865	
8	12	GP	(8.0-12.0')	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST @ 9', NO ODM	3.0		11	600	
			9.0				12	609	sampled @ -2'
			10.0						
			11.0						
			12.0	BOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-19
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/ DD/ YY MM/ 4 DD/ 27 YY 	Date Drilling Completed MM/ DD/ YY MM/ 4 DD/ 27 YY 	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1345	End Time: 1357	Well Name N/A	Static Water Level N/A Feet BGS
Project # 60158985	County Cook	Civil Town/City/ or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth In feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	(0.0-0.5') CONCRETE AND CA-6 BRICK SURFACE	2.6		1	12512	
			2.0	(0.5-4.0') URBAN FILL: BROWN-BLACK, F-F SAND AND F-F M GRAVEL, TRACE BRICK, TRACE GROUND, LOOSE, MOIST, NO ODOM			2	7924	
			3.0				3	7785	
			4.0				4	2002	
			5.0				5	1465	
4	8	GP	4.9	(4.0-5.5') SAME AS (0.5-4.0') URBAN FILL, LOOSE, MOIST, NO ODOM	2.9		6	1043	
			6.0	(5.5-8.0') BROWN NATIVE SAND, SW, F-F SAND, SOME C SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			7	956	
			7.0				8	1044	
			8.0	EOB @ 8'					

Sample
@ - ~~X~~ 012
-1

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-20
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/4 DD/27 YY 11	Date Drilling Completed MM/4 DD/27 YY 11	Drilling Method Geoprobe
Start Time: 1322	End Time: 1337	Well Name N/A	Static Water Level 9' Feet BGS	Borehole Diameter 4 inches

Project # 60158985	County Cook	Civil Town/City/Or Village Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0-0.5'	CONCRETE AND CA-6 GROUT, SUBGRADE	1.9		1	5251	
			1.0-4.0'	UNSAT FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TANGY BROWN, TANGY CLAY, LOOSE, MOIST, NO ODR			2	4784	
							3	2833	
							4	1924	
4	8	GP	4.0-8.0'	SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO ODR	1.5		5	1013	
							6	885	
							7	840	
							8	766	
							9	595	
8	12	GP	8.0-12.0'	BROWN NATIVE SAND, SW, F-M SAND, SOME G SAND, TANGY F GRAVEL, LOOSE, WET @ 9', NO ODR	2.9		10	603	
							11	549	Sample @ 1'
							12	710	
				END @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-21
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ 4 DD/ 27 YY 11	MM/ 4 DD/ 27 YY 11	Geoprobe
Start Time: 1132	End Time: 1200	Well Name: N/A	Static Water Level: Feet BGS	Borehole Diameter 4.0 Inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	(0.0-0.5') CONCRETE AND CA-6 GROUND	2.5		1	2735	
			2.0	(0.5-4.0') URGAN FILL: BROWN-BLACK, F.C SAND AND FINE GRVEL, TRACE BRN, TRACE CINDER, LOOSE, MOIST, NO ODOM			2	5355	
			3.0				3	10718	
			4.0				4	2524	
			5.0				5	1003	
4	8	GP	6.0	(4.0-8.0') SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO ODOM	2.5		6	994	
			7.0				7	850	
			8.0				8	671	
			9.0				9	662	
8	12	GP	10.0	(8.0-12.0') BROWN MOTTLE SAND, SW, FINE SAND, SOME C SAND, TRACE F GRVEL, LOOSE, WET @ 10', NO ODOM	2.8		10	604	
			11.0				11	533	
			12.0				12	574	sample @ -3
				EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-22	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/DD/YY 11/27/11		Date Drilling Completed MM/DD/YY 11/27/11	
Firm: Del Mar		Static Water Level 9' Feet BGS		Drilling Method Geoprobe	
Start Time: 1047	End Time: 1125	Well Name N/A	Borehole Diameter 4 inches		

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)	Sample Method					Depth	CPM	Comments
0	4	GP	0-0.5	CONCRETE AND CA-6 GRANULAR SUBGRADE	2.5		1	21582	REVERSAL @ 8' BORING MONO ↑
			1.0	(0.5-4.0') URBAN FILL BROWN-BLACK, F-C SAND AND FINE GRANULE, TRACE BRICK, TRACE CLAY, LOOSE, MOIST, NO ODOM			2	5496	
			2.0				3	4119	
			3.0				4	1145	
4	8	GP	4.0	(4.0-8.0') SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO ODOM	2.1		5	881	
			5.0				6	872	
			6.0				7	826	
			7.0				8	875	
			8.0	(8.0-9.0') BROWN FINE SAND, SW, SOME C SAND, TRACE F GRANULE, LOOSE, MOIST, NO ODOM	2.6		9	894	
			9.0				10	630	
			10.0	(9.0-12.0') BROWN MEDIUM SAND, SW, FINE SAND, TRACE F GRANULE, LOOSE, WET @ 9', NO ODOM			11	598	sampled @ -1
			11.0				12	610	
			12.0	SOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-23
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: GOTU		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD/ 27 YY 11	MM 4 DD/ 27 YY 11	Geoprobe
Start Time: 1022	End Time: 1038	Well Name N/A	Static Water Level 9'	Borehole Diameter 4 inches

Project #: 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 0.5'	CONCRETE AND CA-6 GRAVEL SUBGRADE	2.3				
			1.0	(0.5-4.0') UNSAT. FILL: BROWN-BLACK, FINE SAND AND FINE GRAVEL, TRACE BRUSH, TRACE COBBLE, LOOSE, MOIST, NO ODOM			1	14622	
			2.0				2	6039	
			3.0				3	2325	
			4.0				4	1184	
4	8	GP	4.0 - 8.0'	(4.0-8.0') SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO ODOM	2.5				
			5.0	(8.0-12.0') BROWN NATIVE SAND, SW, FINE SAND, TRACE FINE GRAVEL, LOOSE, WET @ 9', NO ODOM			5	1118	
			6.0				6	925	
			7.0				7	826	
			8.0				8	847	
8	12	GP	8.0 - 12.0'				8.0	821	
			9.0				9	821	
			10.0				10	616	Sampled @ -1
			11.0				11	612	
			12.0	12	605				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-24
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD 27 YY 11	Date Drilling Completed MM 4 DD 27 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0949	End Time: 1014	Well Name N/A	Static Water Level Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample	From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
								Depth	CPM	Comments
	0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL SUBGRADE (1.0-4.0') VAGAN FILL; BROWN-BLACK, F-C SAND AND F-M GRAVEL, SOME BLACK, TRACE CLAY, LOOSE, MOIST, NO OIL	2.4		1	12139	
				2.0				2	3790	
				3.0				3	2286	
				4.0				4	1614	
	4	8	GP	4.0	(4.0-5.5') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO OIL, (4.5-5.5') CA-6 GRAVEL INTERVAL (5.5-8.0') BROWN NATIVE SAND, SW F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OIL	2.5		5	815	
				5.0				6	722	
				6.0				7	719	
				7.0				8	834	
				8.0	E03 @ 8'					

5 mg/kg
E-1

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061



Project Name Michael Reese		Client Michael Reese		Boring Number N-25
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 4 DD/ 27 YY	MM 4 DD/ 27 YY	Geoprobe
Start Time: 0942	End Time: 0959	Well Name N/A	Static Water Level N/A	Borehole Diameter 4.4 inches
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL	

Sample	From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
								Depth	CPM	Comments
	0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL, SUBGRADE	2.0		1	11236	
				2.0	(1.0-4.0') URBAN FILL BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRAC BLK, TRAC CLAY, LOOSE, MOIST, NO ODR			2	6343	
				3.0	CA-6 GRAVEL INTERMEDIATE (3.0-4.0')			3	3098	
				4.0				4	695	
				5.0				5	522	
	4	8	GP	6.0	(4.0-6.0') CA-6 GRAVEL, LOOSE, MOIST, NO ODR	2.4		6	629	
				7.0				7	781	
				8.0				8	737	
				9.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRAC F GRAVEL, LOOSE, MOIST, NO ODR					
				10.0	EOS @ 8'					
				11.0						
				12.0						

Seq. 14
@-1

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-26	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SoTo		Date Drilling Started MM/ 4 DD/ 27 YY 11		Date Drilling Completed MM/ 4 DD/ 27 YY 11	
Firm: Del Mar		Static Water Level 10' Feet BGS		Drilling Method Geoprobe	
Start Time: 0919		End Time: 0938		Well Name N/A	
Project # 60158985		County Cook		Civil Town/City/Village Chicago, IL	

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRANUL SUBGRADE	2.2		1	3822	
			2.0	(1.0-4.0') UNDER FILL BROWN-BLACK, P-C SAND AND F-M GRANULE, TRACE BLKSH, TRACE CLASH, LOOSE, MOIST, NO ODOM			2	6427	
			3.0				3	1540	
			4.0				4	990	
			5.0				5	943	
4	8	GP	6.0	(4.0-8.0') BROWN FIN SAND, SW, F-M SAND, SOME C SAND, TRACE P GRANULE, LOOSE, MOIST, NO ODOM	2.4		6	805	
			7.0				7	756	
			8.0				8	702	
			9.0				9	705	
8	12	GP	10.0	(8.0-9.0') SAME AS (4.0-8.0') INTERVAL, LOOSE, MOIST, NO ODOM	3.0		10	673	Supply
			11.0				11	667	@ -2'
			12.0	(9.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE P GRANULE, LOOSE, WET C 10', NO ODOM			12	686	
				COB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number N-27
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JADJ Last Name: SOLO		Date Drilling Started MM 4 DD 12 YY	Date Drilling Completed MM 4 DD 12 YY 2011	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0835	End Time: 0910	Well Name N/A	Static Water Level Foot BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PDI/ID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	CONCRETE & GRAVEL, SUBGRADE	2.5'		1	127 (2.14)	
			1.0	0.5'-4.0' - URBAN FILL, F-G SANDS, AND F-M GRAVEL, BROWN - BLACK SOME BRICK, TRACED BONDING, LOOSE, MOIST, NO ODOOR			2	1011	
			2.0				3	1235	
			3.0				4	1053	
			4.0				5	923	
			4.0				6	1044	
4	5	GP	5.0	SAME AS (0.5'-4.0') INTERVAL, LOOSE, MOIST, NO ODOOR	1.5'		7	877	
			6.0				8	701	OBSERVED OBSTRUCTION @ 9' CONC BASEMENT PAD
			7.0				9	X	
			8.0						
8	10	GP	9.0	SAME AS 0.5'-8.0' INTERVAL, LOOSE, MOIST, NO ODOOR	1.5'				
			10.0	CONCRETE BASEMENT OBSTRUCTION END @ 10'					SAMPLED AT: 1'+3'
			11.0						
			12.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 760 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-15
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: PETER Last Name: ROMERO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/4 DD/14 YY	MM/4 DD/14 YY	Geoprobe
Start Time: 1410	End Time: 1420	Well Name: N/A	Static Water Level: 11 Feet BGS	Borehole Diameter: 1.4 inches
Project #: 60158985	County: Cook	Civil Town/City/Village: Chicago, IL		

Sample From (ft)	Sample To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	0.0	(0.0'-10.0') CONCRETE AND CA-6 GRAVEL SUBGRADE	2.7'		1	888	
			1.0				2	957	
			2.0				3	663	
			3.0				4	661	
			4.0				5	606	
4	8	GP	4.0	(4.0'-5.0') SAME AS (1.0'-4.0') LATERAL, LOOSE, MOIST, NO ODR	1.5'		6	641	
			5.0				7	622	
			6.0				8	624	
			7.0				9	610	
			8.0				10	530	
			9.0				11	668	
			10.0				12	626	sampled @ none
			12.0						FOB @ 12'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: 	Firm: AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

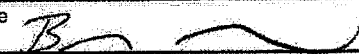
Project Name Michael Reese		Client Michael Reese		Boring Number 0-16	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: PETER Last Name: KONERS		Date Drilling Started	Date Drilling Completed	Drilling Method	
Firm: Del Mar		MM 4 DD 14 YY 11	MM 4 DD 14 YY 11	Geoprobe	
Start Time: 1355	End Time: 1405	Well Name N/A	Static Water Level 11 Feet BGS	Borehole Diameter 2.4 inches	
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL			

Sample			Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)	Sample Method					Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL SUBGRADE (0.0-0.1')	2.8		1	766	
			1.0-4.0	(1.0-4.0')			2	1878	
			2.0	UNSAT FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, BRICK HEAVY, CINDER HEAVY, LOOSE, MOIST, NO OOL			3	1735	
			3.0				4	1175	
			4.0				5	901	
4	8	GP	4.0	(4.0'-7.0') SAND AS (1.0-4.0')	2.5		6	685	
			5.0	INTERVAL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO OOL			7	557	
			6.0				8	546	
			7.0				9	582	
			8.0	(7.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OOL			10	503	
8	12	GP	8.0	BROWN NATIVE SAND, SW, F-M SAND TRACE F GRAVEL, LOOSE, MOIST TO WET, NO OOL	2.8		11	512	
			9.0				12	579	
			10.0						
			11.0						
			12.0						

EOB @ 12'

Sampled @ -2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-17
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: PETER Last Name: ROMERO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM 4 DD/14 YY 11	MM 4 DD/14 YY 11	
Start Time: 1342	End Time:	Well Name: N/A	Static Water Level: 1.0 Feet BGS	Borehole Diameter: 4.0 Inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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Sample		Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)					Sample Method	Depth	CPM
0	4	GP	(0.0 - 4.0') UNSAT FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE BAUX, TRACE CINDERS, LOOSE, MOIST, NO OOLN	2.3'		1	2526	BORING OFFSET → 7', ↓ 4' (NUMEROUS UTILITIES)
						2	3744	
						3	1356	
						4	810	
						5	771	
4	8	GP	(4.0' - 8.0') SAME AS (0.0' - 4.0') INTERVAL, LOOSE, MOIST, NO OOLN	1.9'		6	701	
						7	677	
						8	665	
						9	877	
8	12	GP	BROWN NATIVE SAND, SW, F-M SAND, TRACE P GRAVEL, TRACE C SAND, LOOSE, WET @ 10', NO OOLN	2.2'		10	608	
						11	621	
						12	676	
			EOB @ 10'					sampled @ 1+2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

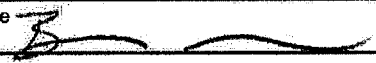
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-18	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: PETER Last Name: ROMERO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe	
Firm: Del Mar	Start Time: 1325	End Time: 1335	Well Name N/A	Static Water Level 1)	Borehole Diameter 1.4 inches
Project # 60158985	County Cook	City/Town/City/Or Village Chicago, IL			

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	1.0 2.0 3.0 4.0	(0.0 - 4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CLAYSTONE, LOOSE, MOIST, NO ODR	2.3'		1661 1859 1112 568 512		
4	8	GP	5.0 6.0 7.0 8.0	(4.0 - 5.0') SAME AS (0.0 - 4.0') INTERVAL, MOIST, LOOSE, NO ODR (5.0' - 8.0') NATIVE BROWN SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODR	2.8		674 662 655 559 548		
8	12	GP	9.0 10.0 11.0 12.0	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET c 11', NO ODR EOB c 12'	2.9		540 642		

Sampled
c-2

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-19
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Petera Last Name: Romero		Date Drilling Started MM 4 DD/ 14 YY 11	Date Drilling Completed MM 4 DD/ 14 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1305	End Time: 1315	Well Name: N/A	Static Water Level: 10 Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	(0.0-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRIM, TRACE CLUST, LOOSE, MOIST, NO ODR	2.0'		1	1968	
			2.0				2	5665	
			3.0				3	5423	
			4.0				4	4396	
			5.0				5	1582	
4	8	GP	4.0	(4.0-5.0') SAME AS (0.0-4.0') INTERVAL, LOOSE, MOIST, NO ODR	2.8		6	957	
			5.0				7	930	
			6.0				8	918	
			7.0	(5.0'-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE MOIST, NO ODR			9	871	
			8.0				10	804	
			9.0				11	572	
			10.0				12	567	
			11.0						
8	12	GP	8.0	(8.0'-12.0') NATIVE BROWN SAND, SW, F-M SAND, TRACE F GRAVEL, WET c 10', LOOSE, NO ODR	2.7				
			12.0						

sampled @ -2'-3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061


SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-20
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: PETER Last Name: KANELO		Date Drilling Started MM/ DD/ YY 4 DD/ 14 YY	Date Drilling Completed MM/ DD/ YY 4 DD/ 14 YY	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1145	End Time: 1155	Well Name N/A	Static Water Level 11 Feet BGS
Project # 60158985	County Cook	Civil Town/City/or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 1.0	(0-0.5') CA-6 GRAVEL SANDS	2.3'		1	949	BOLDS OFFSET 4' → PUE TO ELECTRICAL UTILITY
			1.0 - 2.0	(0.5-4.0') UNSAT FILL: BROWN-BLACK F.C. SAND AND F.M. GRAVEL, TRACE SILT, TRACE CLONAS, LOOSE, MOIST, NO ODR			2	1680	
			2.0 - 3.0				3	7695	
			3.0 - 4.0				4	2200	
			4.0 - 4.9				5	1031	
4	8	GP	4.9 - 5.0	(4.0-8.0') SAME AS (0.5'-4.0') HEAVY BRICK, LOOSE, MOIST, NO ODR	1.9'		6	1079	
			5.0 - 6.0				7	1087	
			6.0 - 7.0				8	1219	
			7.0 - 8.0				9	1221	
8	12	GP	8.0 - 9.0	(8.0-12.0') SAME AS (0.5'-8.0') INTERVAL, SOME BRICKS, UPT @ 11'; LOOSE, NO ODR	1.5'		10	1230	
			9.0 - 10.0				11	1219	
			10.0 - 11.0				12	819	
			11.0 - 12.0						Sampled @ - 3

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
760 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-21	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Peter Last Name: Koncho		Date Drilling Started MM 4 DD 14 YY 11	Date Drilling Completed MM 4 DD 14 YY 11	Drilling Method Geoprobe	
Firm: Del Mar	Start Time: 1130	End Time: 1140	Well Name: N/A	Static Water Level: 11 Feet BGS	Borehole Diameter 4 Inches
Project # 60158985	County Cook	City/Town/City/Village Chicago, IL			

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 1.0	(0.5'-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICKS, TRACE GLASS, LOOSE, MOIST, NO ODOM	2.9'		1	1136	
			1.0 - 2.0				2	4287	
			2.0 - 3.0				3	35192	
			3.0 - 4.0				4	17514	
			4.0 - 5.0				5	2239	
4	8	GP	4.0 - 5.0	(4.0'-8.0') SAME AS (0.5'-4.0') INTERVAL, SOME BRICKS, LOOSE, MOIST, NO ODOM	2.0'		6	1525	
			5.0 - 6.0				7	1398	
			6.0 - 7.0				8	1330	
			7.0 - 8.0				9	1178	
8	12	GP	8.0 - 9.0	(8.0'-12.0') SAME AS (0.5'-8.0') INTERVAL, WET C 11', TRACE BRICKS, LOOSE, NO ODOM	2.0'		10	1311	
			9.0 - 10.0				11	1037	
			10.0 - 11.0				12	1116	
			11.0 - 12.0						
				EOB @ 12'					Scraped @ -3 & -4

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

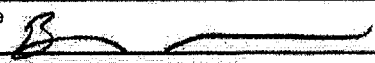
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-22
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: PEREN Last Name: ROMERO		Date Drilling Started MM 4 DD 14 YY 11	Date Drilling Completed MM 4 DD 14 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1045	End Time: 1103	Well Name: N/A	Static Water Level: 11 Feet BGS
Project # 60158985	County Cook	City/Town/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	(0.0-0.5') CA-6 GRAVEL SUBGRADE	2.7'		1	3432	
			2.0	(0.5-4.0') URBAN FILL: BROWN-BLACK F-G SAND AND F-M GRAVEL, TRACED BRICKS, TRACED CEMENT, LOOSE, MOIST, NO OOH			2	20004	
			3.0				3	29725	
			4.0				4	6014	
			5.0				5	2800	
4	8	GP	6.0	(4.0-8.0') SAME AS (0.5-4.0') INTERVAL, SOME BRICK, LOOSE, MOIST, NO OOH	2.1		6	2431	
			7.0				7	1964	
			8.0				8	1666	
			9.0				9	1542	
8	12	GP	10.0	(8.0-12.0') SAME AS (0.5-4.0') INTERVAL, SOME BRICK, LOOSE, MOIST, NO OOH	1.6'		10	2442	
			11.0				11	1877	
			12.0	EOB @ 12'			12	1538	

sample by
0-22-3

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-23
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Peter Last Name: Rumfalo		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar		MM/4 DD/14 YY/11	MM/4 DD/14 YY/11	
Start Time: 1026	End Time: 1040	Well Name: N/A	Static Water Level: N/A	Borehole Diameter 14 inches
Project # 60158985	County Cook	City/Town/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	GRAVEL SURFACE	2.3'		1	2428	
			1.0	(0.5 - 4.0') UNSAT FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CEMENT, LOOSE, MOIST, NO ODN			2	24272	
			2.0				3	47297	
			3.0				4	13261	
			4.0				5	2556	
4	8	GP	(4.0 - 8.0') SAND AS (0.5 - 4.0') INTERNAL GRAVEL (A-B POUCH ROOM (6.0 - 8.0')) LOOSE, MOIST, NO ODN		3.0'		6	1050	
			5.0			7	834		
			6.0			8	1295		
			7.0			9	1422		
			8.0			10	1159		
8	12	GP	(8.0 - 12.0') SAME AS (0.5 - 8.0') INTERNAL, SAND BRICK, LOOSE, MOIST, NO ODN	2.2'		11	1292		
			9.0			12	1154		
			10.0						
			11.0	EOB @ 12'					
			12.0						

59-phi
Q-24-3

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>B</i>	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-24	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: POTEN Last Name: ROSEN		Date Drilling Started MM/ DD/ YY 4/14/11	Date Drilling Completed MM/ DD/ YY 4/14/11	Drilling Method Geoprobe	
Start Time: 1005	End Time: 1013	Well Name N/A	Static Water Level N/A	Borehole Diameter -2 inches	
Project # 60158985		County Cook	City/Town/City/Or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 0.5'	GRAVEL SUBGRADE	2.3'		1	1392	
			0.5 - 4.0'	VALENTINE FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE BRICKS, TRACE CINDER, LOOSE, MOIST, NO ODN			2	9712	
							3	36408	
							4	13752	
							5	2256	
4	8	GP	4.0 - 8.0'	SAME AS 0.5-4.0' INTERVAL, SOME BRICKS, LOOSE, MOIST, NO ODN	2.4'		6	1676	
							7	1697	
							8	1694	
							9	1775	
8	12	GP	8.0 - 12.0'	SAME AS (0.5-8.0') INTERVAL, TRACE BRICKS, LOOSE, MOIST, NO ODN	1.5'		10	1468	
							11	1899	
							12	2036	
									Sampled @ -3 & -4

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-25	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Peter Last Name: Romero		Date Drilling Started MM 4 DD 14 YY 11	Date Drilling Completed MM 4 DD 14 YY 11	Drilling Method Geoprobe	
Firm: Del Mar		Static Water Level 11 Feet BGS		Borehole Diameter 1.4 inches	
Start Time: 0950	End Time: 1000	Well Name N/A	Civil Town/City/Village Chicago, IL		
Project # 60158985	County Cook				

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	0.0-0.5'	GRAVEL SUBGRADE	2.6'		1	2137	
			0.5'-4.0'	UNSAT. FINE BROWN-BLACK, F-C SAND AND F-M GRAVEL, SOME BRICK, TRASS CLUSTERS, LOOSE, MOIST. NO ODOM			2	11928	
							3	47574	
							4	37448	
							5	4428	
							6	2482	
4	8	GP	4.0-8.0'	SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO ODOM	2.0'		7	1984	
							8	1885	
							9	1621	
							10	1554	
							11	1252	
8	12	GP	8.0-12.0'	SAME AS (0.5-8.0') INTERVAL, MOIST TO WET, NO ODOM	2.3'		12	1151	
				EOB @ 12'					sampled @ -30-4

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-26
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: ROMA Last Name: ROMANO		Date Drilling Started MM/4 DD/14 YY 11	Date Drilling Completed MM/4 DD/14 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0907	End Time: 0945	Well Name N/A	Static Water Level N/A Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	GPM	Comments
0	4	GP	0-1.0	(0-1') SANDY SILT SUBGRADE	3.1'		1	2707	
			1.0-4.0	(1.0'-4.0') URBAN FILL: BROWN-BLACK, F-C SAND ALSO F-M GRAVEL, TRACE BAUXITE, TRACE CLAYEST, LOOSE, MOIST, NO ODR			2	28648	
			2.0				3	34001	
			3.0				4	6611	
			4.0				5	1944	
4	8	GP	4.0-8.0	(4.0-8.0') SAME AS (1.0-4.0') INTERVAL, LITTLE RECOVERY, LOOSE, MOIST, NO ODR	6.4'		6	886	REFUSAL @ 8', CONC. OBSTRUCTION CAUSED BORING 2' ↓
			5.0				7	796	
			6.0				8	758	
			7.0				9	1171	
			8.0				10	1368	
8	12	GP	8.0-12.0	(8.0-12.0') SAME AS 1.0-8.0' INTERVAL, LITTLE RECOVERY, LOOSE, MOIST, NO ODR	1.3'		11	1336	
			9.0				12	1310	
			10.0	EOB @ 12'					
			11.0						
			12.0						

sampled @ -2' -3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-27	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: PETER Last Name: KOMENEG		Date Drilling Started	Date Drilling Completed	Drilling Method: Geoprobe	
Firm: Del Mar		MM/ DD/ YY II	MM/ DD/ YY II		
Start Time: 0845	End Time: 0900	Well Name: N/A	Static Water Level: N/A	Borehole Diameter: 4 Inches	
Project #: 60158985	County: Cook	CMI Town/City/Village: Chicago, IL			

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0-0.5'	GRAVEL SUBGRAVEL	2.1'		1	1690	
			1.0	(0.5-4.0') - VARIED FILL: BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE BAUXITE, TRACE GI-ROCK, LOOSE, MOIST, NO ODOR			2	3833	
			2.0				3	2100	
			3.0				4	1162	
			4.0				5	1042	
4	8	GP	4.0-8.0'		(4.0-8.0) - SAME AS (0.5-4.0) INTERVAL, LOOSE, MOIST, NO ODOR	1.1'		6	1084
			5.0				7	1072	
			6.0				8	761	
			7.0				9	900	
			8.0				10	849	
8	12	GP	8.0-9.0'	(8.0-9.0) SAME AS (0.5-8.0) INTERVAL, LOOSE, MOIST, NO ODOR	2.5'		11	662	
			9.0	(9.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE R GRAVEL, LOOSE, MOIST, NO ODOR			12	581	
			10.0						
			11.0						
			12.0						

5 samples
①-2'-3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 0-28
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD/ 29 YY 11	Date Drilling Completed MM 4 DD/ 29 YY 11	Drilling Method Geoprobe
Start Time: 0820	End Time: 0843	Well Name N/A	Static Water Level 10' Feet BGS	Borehole Diameter 4 inches
Project #: 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	CA-6 GRAVEL SUBGRADE	2.3		1	1107	
			1.0	(0.5-4.0') URBAN FILL: BROWN-BLACK F-C AND F-M GRAVEL TRACE BRICK, TRACE LUMBER, LOOSE, MOIST, NO ODOM			2	1534	
			2.0				3	1024	
			3.0				4	1090	
			4.0				5	1384	
4	8	GP	4-6'	SAME AS (0.5-4.0') INTERVAL, LITTLE RECOVERY, LOOSE, MOIST, NO ODOM	0.9		6	1272	
			5.0				7	1043	
			6.0				8	765	
			7.0				9	877	
			8.0				10	725	
8	12	GP	8-10.0'	SAME AS (0.5-8.0') INTERVAL, SOME BRICK, LOOSE, MOIST, NO ODOM	2.6		11	645	
			9.0				12	632	
			10.0						
			11.0	(10.0-12.0') BROWN NATIVE SAND, SW, F.M SAND, TRACE F GRAVEL, LOOSE, WET @ 10', NO ODOM					
			12.0	EOS @ 12'					Sayed @-2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number P-17
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD/ 29 YY 11	Date Drilling Completed MM 4 DD/ 29 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1036	End Time: 1052	Well Name N/A	Static Water Level 10' Feet BGS
Borehole Diameter 2 1/2 inches				

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	Black Silty Clay Top Soil, Some organics, soft, moist, no odor	2.3		1	4595	Boring Moved ← 5' (Gas Utility)
			2.0	(1.0-4.0') UNSAW FILL Brown-Black, F-C SAND AND F-M GRAVEL, LOOSE, TRACE BRICH.			2	7864	
			3.0	TRACE CLINCHER, MOIST, NO ODOR			3	7159	
			4.0				4	5036	
			5.0				5	2351	
4	8	GP	6.0	(4.0-6.0') SAME AS (1.0-4.0') INTERNAL, LOOSE, MOIST, NO ODOR	2.1		6	859	
			7.0				7	715	
			8.0	(6.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOR			8	973	
			9.0				9	926	
			10.0				10	656	
8	12	GP	11.0	(8.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, WET & P', NO ODOR	3.4		11	613	597 Ad @ -2'
			12.0				12	552	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature B

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number P-19
Boring Drilled By: Name of crew chief (first, last) and Firm. First Name: John Last Name: Soto		Date Drilling Started MM/ 4 DD/ 29 YY 11	Date Drilling Completed MM/ 4 DD/ 29 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1018	End Time: 1028	Well Name N/A	Static Water Level N/A Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0.0 - 0.5'	CA-6 GRAVEL SUBGRADE	1.7		1	1144	
			0.5 - 4.0'	USDA PFC: BROWN-BLACK F-C SAND AND F-M GRAVEL, TRACE BARK, TRACE GRAVEL, LOOSE, MOIST, NO ODOM			2	1772	
							3	1102	
							4	577	
							5	543	
4	8	GP	4.0 - 5.0'	SAND AT (0.5-4.0') INTERVAL, LOOSE, MOIST, NO ODOM	2.8		6	615	
			5.0 - 8.0'	BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODOM			7	602	
							8	545	
							8'		
			8.0	END @ 8'					Sample @ -2'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

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750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number P-21
Boring Drilled By: Name of crew chief (first, last) and Firm: First Name: JOHN Last Name: SOTO		Date Drilling Started MM 4 DD/ 29 YY 11	Date Drilling Completed MM 4 DD/ 29 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0945	End Time: 1005	Well Name N/A	Static Water Level N/A Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	CA-6 GRAVEL SUBGRADE	2.2		1	1112	BORING OFFSET ↓ 4' (CIRCUMFERENTIAL UTILITY) REPAVAL C 2'
			0.5-4.0'	URBAN FILL BROWN-BLACK, FINE SAND AND F-M GRAVEL, FINE GRAIN, TRACE CLINCHER, LOOSE, MOIST, NO ORGAN			2	3512	
							3	9183	
							4	2877	
4	8	GP	4.0-8.0'	URBAN FILL: SAME AS (0.5-4.0') INTERNAL, TRACE WOOD, LOOSE, MOIST, NO ORGAN	1.9		5	1255	
							6	934	
							7	1230	
							8	1297	
							9	1274	
			8.0-12.0'	URBAN FILL: SAME AS (0.5-8.0') INTERNAL, LOOSE, MOIST, NO ORGAN	2.0		10	829	
							11	967	
							12	622	Sampled @ -3'
			12.0	COB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061


SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number P-23
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 4 DD/ 29 YY 11	Date Drilling Completed MM 4 DD/ 29 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0924	End Time: 0943	Well Name NIA	Static Water Level 10' Feet BGS
Project #: 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)			
							Depth	CPM	Comments	
0	4	GP	0-0.5'	CA-6 GRAVEL SUBGRADE	3.0		1	765	BORING OFFSET ↓ 4' (ELECTRICAL UTILITY) REFUSAL @ 2'	
			1.0	(0.5-4.0') UNSAN FILL: BROWN-BLACK, F-C SAND AND F-FM GRAVEL, TRACE BRICK, TRACE CLINGER, LOOSE, MOIST, NO OOR			2	1559		
			2.0				3	1489		
			3.0				4	1464		
4	8	GP	4.0	(4.0-8.0') UNSAN FILL: SAME AS	3.0		5	976	REFUSAL @ 2'	
			5.0	(6.5-4.0') INTERMEDIATE, LOOSE, MOIST, NO OOR			6	1310		
			6.0				7	1315		
			7.0				8	1219		
			8.0	(8.0-12.0') SAME AS (0.5-4.0') INTERMEDIATE, LOOSE, WET @ 10', NO OOR, LITTLE RECOVERY	1.3		9	1223		
			9.0					10		1384
			10.0					11		1562
			11.0					12		2046
8	12	GP	12.0						brick Sample @ - 2'	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number P-25
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started MM/4 DD/29 YY11	Date Drilling Completed MM/4 DD/29 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0909	End Time: 0921	Well Name: N/A	Static Water Level: 10' Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample		Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)					Sample Method	Depth	CPM
0	4	GP	(0-0.5') CA-6 GRAVEL, SUSPENDED	2.8		1	1407	
			(0.5-4.0') UNDRY FINE BROWN-BLACK P-S SAND AND P-M GRAVEL, TANGY BRICK, TRACT C-108A, LOOSE, MOIST, NO OIL			2	5047	
						3	21598	
						4	7143	
						5	1901	
4	8	GP	(4.0-8.0') SAME AS (0.5-4.0') INTERVAL	1.4		6	1401	
			LITTLE RECOVERY, LOOSE, MOIST, NO OIL			7	1211	
						8	941	
						9	1127	
8	12	GP	(8.0-12.0') SAME AS (0.5-8.0') INTERVAL, LOOSE, WET C 10', NO OIL	1.8		10	1007	
						11	1174	
						12	1046	5.5 g/sec @ -3'
			603 @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number P-27
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM/4 DD/29 YY11	Date Drilling Completed MM/4 DD/29 YY11	Drilling Method Geoprobe
Start Time: 0850	End Time: 0903	Well Name: N/A	Static Water Level 10' Feet BGS	Borehole Diameter: 4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	CA-6 GRAVEL SUBSTRATE	2.2				
			1.0	(0.5-4.0') UNGRAINED: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BLEND. TRACE CLAY, LOOSE, MOIST, NO OIL			1	1105	
			2.0				2	1725	
			3.0				3	1782	
			4.0				4	1490	
4	8	GP	4.0-5.0'	SAME AS (0.5-4.0') UNGRAINED, LOOSE, MOIST, NO OIL	2.0		5	747	
			5.0	(5.0-8.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO OIL			6	590	
			6.0				7	526	
			7.0				8	554	
			8.0				9	531	
8	12	GP	8.0-12.0'	BROWN NATIVE SAND, SW, F-M SAND, SOME F GRAVEL, SOME C SAND, LOOSE, WET @ 10', NO OIL	2.2		10	516	
			9.0				11	538	
			10.0				12	591	
			11.0						59700
			12.0						@-3

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number Q-16
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM 5 DD/ 3 YY 11	Date Drilling Completed MM 5 DD/ 3 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1120	End Time: 1136	Well Name: N/A	Static Water Level N/A Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	1.0	CONCRETE AND CA-6 GRAVEL SUBGRADE	2.4		1	492	
			2.0	(1.0-4.0') UNSAT FILL: BROWN-BLACK, F-C SAND AND FINE GRAVEL, THIN BRICK, THIN CINDER, LOOSE, MOIST, NO ODM			2	1024	
			3.0				3	1128	
			4.0				4	991	
			5.0				5	956	
4	8	GP	6.0	(4.0-8.0') SAME AS (1.0-4.0') INTERVAL, LOOSE, MOIST, NO ODM	1.1		6	1027	
			7.0				7	732	
			8.0				8	889	
			9.0				9	834	
8	12	GP	10.0	NO RECOVERY	0.0		10	665	
			11.0				11	527	
			12.0				12	546	sampled @ nose
				EOD @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION



Project Name Michael Reese		Client Michael Reese		Boring Number Q-18
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0530	End Time: 1115	Well Name: N/A	Borehole Diameter 4.0 inches
Project # 60158985	County Cook	State IL	Static Water Level 10 Feet BGS	Civil Town/City/Village Chicago, IL

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FP)		
							Depth	CPM	Comments
0	4	GP	1.0	(0-1') CONCRETE SLAB	1.6		1	628	
			2.0	(1.0-4.0') URBAN FILL: Brown-Black, F-C SAND, AND F-M GRAVEL, TRACE BRICK, LOOSE, MOIST, NO OSM			2	786	
			3.0				3	1157	
			4.0				4	954	
4	8	GP	5.0	(4.0-8.0') BROWN FILL SAND, SW, F-M SAND TRACE F GRAVEL, TRACE BRICK, LOOSE, MOIST, NO OSM	2.1		5	795	
			6.0				6	793	
			7.0				7	820	
			8.0				8	826	
			9.0				9	865	
			10.0	(8.0-10.0') SAME AS (4.0-8.0') INTERVAL, LOOSE, MOIST, NO OSM	1.9		10	1259	
			11.0				11	842	
			12.0	(10.0-12.0') BROWN NATIVE SAND, SW, F-M SAND, TRACE F GRAVEL, WRT C 10', NO OSM			12	574	sampled @ none
				BOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number Q-20
Boring Drilled By: Name of crew chief (first, last) and Firm. First Name: SAHJ Last Name: SJO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/ 5 DD/ 3 YY 11	MM/ 5 DD/ 3 YY 11	Geoprobe
Start Time: 1039	End Time: 1052	Well Name: N/A	Static Water Level: 10' Feet BGS	Borehole Diameter: 4.0 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	CA-6 GRANUL SUBGRADE	2.9		1	968	
			0.5-4.0'	UNSAT. FILL BROWN-BLACK, FINE SAND AND FINE GRANUL, TRACE BRN, TRACE CLAY, LOOSE, MOIST, NO ROOT			2	1148	
							3	1401	
							4	1125	
4	8	GP	4.0-8.0'	SAME AS (0.5-4.0')	2.3		5	995	
				LOOSE, MOIST, NO ROOT			6	1041	
							7	986	
							8	1044	
							9	871	
8	12	GP	8.0-12.0'	SAME AS (0.5-8.0')	1.5		10	1013	
				W/ROOT, LOOSE, W/FT CLAY; NO ROOT			11	679	
							12	558	Sampled @ 100g
			12.0'	EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number Q-22
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/5 DD/3 YY 11	MM/5 DD/3 YY 11	Geoprobe
Start Time: 1007	End Time: 1035	Well Name: N/A	Static Water Level: 11' Feet BGS	Borehole Diameter: 4.0 inches
Project #: 60158985	County: Cook	Civil Town/City/Village: Chicago, IL		

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0.0 - 1.0	(0 - 0.5') CA-1 GRAVEL SUBGRADE	2.7				REFUSAL @ 6' (CONCRETE OBSTRUCTION) BORING OFFSET ↓ 2'
			1.0 - 2.0	(0.5 - 4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-OM GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO SOON			1	1078	
			2.0 - 3.0				2	1699	
			3.0 - 4.0				3	4571	
4	8	GP	4.0 - 5.0	(4.0 - 8.0') SAME AS (0.5 - 4.0') INTERVAL, LOOSE, MOIST, NO SOON	1.4		4	1440	
			5.0 - 6.0				5	911	
			6.0 - 7.0				6	932	
			7.0 - 8.0				7	988	
			8.0 - 9.0				8	966	
8	12	GP	8.0 - 9.0	(8.0 - 12.0') SAME AS (0.5 - 8.0') INTERVAL, LOOSE, WET @ 11', NO SOON	2.0		9	919	
			9.0 - 10.0				10	854	
			10.0 - 11.0				11	955	sample e-3
			11.0 - 12.0				12	1126	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number Q-24
Boring Drilled By: Name of crew chief (first, last) and Firm. First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MW 5 DD/ 3 YY	MW 5 DD/ 3 YY	Geoprobe
Start Time: 0950	End Time: 1004	Well Name N/A	Static Water Level 10' Feet BGS	Borehole Diameter 2.40 Inches

Project # 60158985	County Cook	CMI Town/City/Village Chicago, IL
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Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0.0-0.5'	CA-6 GRAVEL SUBSTR	2.9		1	1058	
			1.0-4.0'	UNSAT FILL; BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRAC BENCH, TRAC CLUST, LOOSE, MOIST, NO SOIL			2	6460	
							3	5458	
							4	1579	
							5	1252	
4	8	GP	4.0-8.0'	SAME AS (0.5-4.0')	1.6		6	1258	
				LITERAL, LOOSE, MOIST, NO SOIL			7	1290	
							8	984	
							9	1314	
							10	1379	
8	12	GP	8.0-12.0'	SAME AS (0.5-8.0')	2.2		11	1425	50 gph
				LITERAL, LOOSE, MOIST & P; NO SOIL			12	1177	@ - 2'
			12.0'	EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm: AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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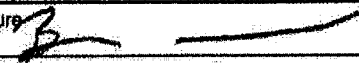
SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number R-26
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 5 DD 3 YY 11	Date Drilling Completed MM 5 DD 3 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0817	End Time: 0945	Well Name N/A	Static Water Level N/A Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

Sample From (ft)	Sample To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (%)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	(0.0-4.0') NO RECOVERY (CONCRETE OBSTRUCTION + LINER DAMAGE)	0.0		1	724	REMARK c 4' (CONC. OBSTRUCTION) BORING OFFSET ↓ 2'
			2				1225		
			3				1646		
			4				1713		
			5				1308		
4	8	GP	4.0	(4.0-8.0') URBAN FILL: BROWN-BLACK F-C SAND AND FINE GRAVEL, TRAIL BRICK, TRAIL CEMENT, LIME, MORT, NO COAL	1.7		6	1281	
			7				1002		
			8				978		
			9				1119		
			10				994		
8	12	GP	8.0	LITTLE RECOVERY (8.0-12.0') CA-6 GRAVEL INTERMEDIATE, COARSE, MORT, NO COAL	0.9		11	1031	
			12				858		
			12.0	EOS c 12'					NO SPT

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number Q-28	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/5 DD/4 YY	Date Drilling Completed MM/5 DD/4 YY 11	Drilling Method Geoprobe	
Firm: Del Mar	Start Time: 1158	End Time: 1208	Well Name N/A	Static Water Level 11 Feet BGS	Borehole Diameter 2.4 inches
Project # 60158985	County Cook		Civil Town/City/or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0-0.5'	CA-6 GRAVEL SUBGRADE	2.2		1	1102	
			1.0	(0.5-4.0') UNGRAVELLED BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CINDER, LOOSE, MOIST, NO OOR.			2	1385	
			2.0				3	1347	
			3.0				4	1179	
			4.0				5	1305	
			4.0				6	1341	
4	8	GP	(4.0-8.0')	SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO OOR.	1.7		7	1395	
			5.0				8	1076	
			6.0				9	773	
			7.0				10	678	
			8.0				11	545	
8	12	GP	(8.0-12.0')	SAME AS (0.5-8.0') INTERVAL, LOOSE, WET @ 11', NO OOR.	1.6		12	610	
			9.0						
			10.0						
			11.0						
			12.0	EOB @ 12'					

no sample

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number R-21	
Boring Drilled By: Name of crew chief (first, last) and Firm. First Name: JAIN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method: Geoprobe	
Firm: Del Mar		MM/ 5 DD/ 3 YY 11	MM/ 5 DD/ 3 YY 11		
Start Time: 1304	End Time: 1343	Well Name: N/A	Static Water Level 10' Feet BGS	Borehole Diameter 4 inches	
Project #: 60158985	County Cook	Civil Town/City/Or Village Chicago, IL			

Sample		Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
From (ft)	To (ft)						Depth	CPM	Comments
0	4	GP	0.0 - 1.0	(0-0.5') CA-6 GRAVEL SUBSTRATE	2.3		1	650	REFUSAL @ 6'
			1.0 - 2.0	(0.5-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE GLASS, COALS, MOIST, NO ODOR			2	889	BORING OFFSET ↑ 2'
			2.0 - 3.0				3	1819	(CONCRETE OBSTRUCTION)
			3.0 - 4.0				4	1506	REFUSAL AGAIN @ 6'
4	8	GP	4.0 - 5.0	(4.0-8.0') SAME AS (0.5-4.0')	1.2		5	1194	BORING OFFSET
			5.0 - 6.0	INTERNAL, LOOSE, MOIST, NO ODOR			6	1142	↑ 2' (CONCRETE OBSTRUCTION)
			6.0 - 7.0				7	1214	
			7.0 - 8.0				8	966	
			8.0 - 9.0				9	892	
			9.0 - 10.0	(8.0-12.0') SAME AS (0.5-8.0')	1.5		10	1061	
			10.0 - 11.0	INTERNAL, LOOSE, WET @ 10', NO ODOR			11	903	
			11.0 - 12.0				12	991	sampled @ - 4'
			12.0	END @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061


SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number R-23
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/ DD/ YY: 5/ 3/ 11	Date Drilling Completed MM/ DD/ YY: 5/ 3/ 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1242	End Time: 1300	Well Name N/A	Static Water Level 10' Feet BGS
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FI)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	CA-6 Gravel Subgrade	3.0		1	875	
			1.0	(0.5-4.0') UNGRAV FILL: BROWN-BLACK, F.C SAND AND F.M GRAVEL, TRACE BAKEN, TRACE CLAY, LOOSE, MOIST, NO ODDN.			2	966	
			2.0				3	1549	
			3.0				4	1555	
			4.0				5	831	
4	8	GP	4.0-8.0'		SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO ODDN	1.7		6	957
			5.0				7	931	
			6.0				8	949	
			7.0				9	1007	
8	12	GP	8.0-12.0'	SAME AS (0.5-8.0') INTERVAL, LOOSE, WET @ 10', NO ODDN			10	1076	
			9.0				11	1405	
			10.0				12	1417	sample C-4
			11.0						
			12.0	EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number R-25
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started MM 5 DD/ 3 YY 11	Date Drilling Completed MM 5 DD/ 3 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 1148	End Time: 1200	Well Name: N/A	Static Water Level: 11' Feet BGS
Project #: 60158985	County: Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 0.5'	CA-6 GRAVEL SUBGRADE	2.4				
			0.5 - 4.0'	VOID FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRAC BROWN, TRAC CLAY, LOOSE, MOIST, NO ROOT			1	1171	
							2	4401	
							3	20287	
							4	4350	
4	8	GP	4.0 - 8.0'	SAME AS (0.5 - 4.0') INTERVAL, LOOSE, MOIST, NO ROOT	2.4		5	1530	
							6	1169	
							7	944	
							8	1147	
							9	1149	
8	12	GP	8.0 - 12.0'	SAME AS (0.5 - 8.0') INTERVAL, LOOSE, WET C 11', NO ROOT	1.8		10	1344	
							11	762	
							12	496	Sampled @ -3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 

Firm **AECOM**
760 Corporate Woods Parkway, Vernon Hills, Illinois 60061

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number R-27	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JHN Last Name: SOTG		Date Drilling Started	Date Drilling Completed	Drilling Method	
Firm: Del Mar		MM 5 DD 3 YY 11	MM 5 DD 3 YY 11	Geoprobe	
Start Time: 1420	End Time: 1432	Well Name N/A	Static Water Level N/A Feet BGS	Borehole Diameter 2.4 inches	
Project #: 60158985	County Cook	Civil Town/City/Village Chicago, IL			

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	CA-6 GRAVEL, SUBGRADE	2.8				
			1.0	(0.5-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F.M. GRAVEL, TRACE BITUM, TRACE COPPER, LOOSE, MOIST, NO UOON			1	961	
			2.0			2	2953		
			3.0			3	8594		
			4.0			4	2074		
4	8	GP	4.0-8.0'	SAME AS (0.5-4.0')	1.6		5	1402	
			5.0	INTERVAL, LOOSE, MOIST, NO UOON			6	1255	
			6.0				7	1253	
			7.0				8	1058	
			8.0	EOB @ 8'					

Sgt/W
R-3'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 760 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

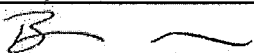
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number R-28
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started MM/5 DD/4 YY 11	Date Drilling Completed MM/5 DD/4 YY 11	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0940	End Time: 0951	Well Name N/A	Static Water Level N/A Feet BGS
Project # 60158985	County Cook	Civil Town/City/Or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	CA-6 GMSL SUGARS	2.2		1	608	
			1.0	(0.5-4.0') VADIA FILL: BROWN-BLACK, F-C SAND AND F-M			2	1067	
			2.0	GMSL, TRACE BRN, TRACE CLINCH, LOOSE, MOIST, NO ODR			3	1081	
			3.0				4	1110	
			4.0				5	1187	
4	8	GP	(4.0-8.0')	SAME AS (0.5-4.0')	1.7		6	985	
			5.0	INTERNAL, LOOSE, MOIST, NO ODR			7	638	
			6.0				8	641	
			7.0						
			8.0	EOB @ 8'					
			9.0						
			10.0						
			11.0						
			12.0						

sampled @ nose

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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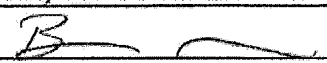
SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number S-22	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JOHN Last Name: SOTO		Date Drilling Started MM 5 DD 4 YY 11	Date Drilling Completed MM 5 DD 4 YY 11	Drilling Method Geoprobe	
Firm: Del Mar	Start Time: 1052	End Time: 1135	Well Name N/A	Static Water Level 10' Feet BGS	Borehole Diameter 4 inches
Project # 60158985	County Cook		Civil Town/City/Or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0.0 - 0.5	(0.0-0.5') CA-6 GRAVEL SUGARLOE	2.6		1	935	REFUSAL @ 6'
			0.5 - 4.0	(0.5-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRN, TRAC CINDER, LOOSE, MOIST, NO ODOM			2	1056	(CONCRETE OBSTRUCTION) BORING OFFSET
							3	1520	↓ 2'
							4	1659	REFUSAL AGAIN @ 7'
							5	1749	(CONCRETE OBSTRUCTION) BORING OFFSET
4	8	GP	4.0 - 8.0	(4.0-8.0') SAME AS (0.5-4.0')	1.7		6	1272	↓ 2'
				INTERVAL, LOOSE, MOIST, NO ODOM			7	1207	
							8	1317	
							9	1190	
8	12	GP	8.0 - 12.0	(8.0-12.0') SAME AS (0.5-8.0')	1.6		10	936	
				INTERVAL, NOT @ 10', NO ODOM			11	956	
							12	952	sample @ -5'
			12.0	EOB @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number SR-24	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: JANN Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method	
Firm: Del Mar		MM 5 DD/ 4 YY 11	MM 5 DD/ 4 YY 11	Geoprobe	
Start Time: 0810	End Time: 0855	Well Name N/A	Static Water Level: 10'	Borehole Diameter 4 1/4 inches	
Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL			

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)			
							Depth	CPM	Comments	
0	4	GP	0.0 - 1.0	(0-0.5') Ca-6 Gravel In-situ	2.8		1	1013	REVERSAL @ 5' (CONCRETE OBSTRUCTION) BORING OFFSET ↓ 2'	
			1.0 - 2.0	(0.5-4.0') UNSAT FILL: Browns-Black F.C. SAND AND FINE GRAVEL, TRAIL DIRT, TRAIL CURB, LOOSE, MOIST, NO ROOM			2	956		
			2.0 - 3.0				3	1138		
			3.0 - 4.0				4	988		
			4.0 - 5.0				5	692		
4	8	GP	4.0 - 5.0	(0.5-4.0') SAME AS (0.5-4.0')	2.4		6	826	REVERSAL @ 5' (CONCRETE OBSTRUCTION) BORING OFFSET ↓ 2'	
			5.0 - 6.0	IN-SITU, LOOSE, MOIST, NO ROOM			7	712		
			6.0 - 7.0				8	693		
			7.0 - 8.0				9	749		
			8.0 - 9.0				10	1083		
			9.0 - 10.0				11	1003		
			10.0 - 11.0	(8.0-12.0') SAME AS (0.5-4.0') IN-SITU, LOOSE, WET @ 10', NO ROOM	1.8		12	829		
			11.0 - 12.0				13	676		
			12.0 - 13.0				14	561		
			13.0 - 14.0	(12.0-16.0') LITTLE RECOVERY, SAME AS (0.5-12.0') IN-SITU, LOOSE, WET, NO ROOM	0.9		15	526		Sampled @ none
			14.0 - 16.0				16	587		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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* 25' cord used for boring

SOIL BORING LOG INFORMATION


AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number S-25
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Soto Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM/5 DD/3 YY 11	MM/5 DD/3 YY 11	Geoprobe
Start Time: 1405	End Time: 1415	Well Name N/A	Static Water Level N/A	Borehole Diameter 14.0 Inches
Project # 60158985	County Cook	City/Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5	CA-6 GRAVEL, SUBGRADE					
			1.0	(0.5-4.0') UNSAT. MUD; BROWN-BLACK, F-C SAND AND, F-M GRAVEL, TRACE SILICA, TRACE CHLOR, LOOSE, MOIST, NO OIL			1	770	
			2.0		2	1164			
			3.0		3	1003			
			4.0		4	1018			
4	8	GP	4.0-8.0	(4.0-8.0') SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO OIL			5	1392	
			5.0				6	1098	
			6.0				7	1148	
			7.0				8	1037	
			8.0	END @ 8'					
			9.0						
			10.0						
			11.0						
			12.0						

Sample @ 7.0'

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
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SOIL BORING LOG INFORMATION

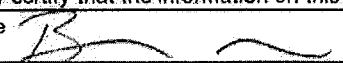
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 51-26
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Solin Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method
Firm: Del Mar		MM 5 DD 4 YY 11	MM 5 DD 4 YY 11	Geoprobe
Start Time: 0957	End Time: 1045	Well Name: NIA	Static Water Level: 11' Feet BGS	Borehole Diameter: 1.4 inches

Project # 60158985	County Cook	Civil Town/City/Village Chicago, IL
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From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	0-0.5'	CA-G GRAVEL SUBGRADE	2.8		1	962	REFUSAL @ 9' (CONCRETE OBSTRUCTION) BORING OFFSET ↓ 2'
			0.5-4.0'	UNSAT. BROWN-BLACK, FINE SAND AND FINE GRAVEL, TRACE SILT, TRACE CLAY, LOOSE, MOIST, NO ROOTS			2	1278	
							3	1117	
							4	1537	
							5	1479	
4	8	GP	4.0-8.0'	SAME AS (0.5-4.0') INTERVAL, FINER MEDIUM, LOOSE, MOIST, NO ROOTS	1.8		6	1508	
							7	1538	
							8	1380	
							9	1305	
8	12	GP	8.0-11.0'	SAME AS (0.5-8.0') INTERVAL, LOOSE, MOIST, NO ROOTS	1.7		10	1161	
							11	784	
							12	583	sampled @ -7
			11.0-12.0'	BROWN NATIVE SAND, SW, FINE SAND, TRACE FINE GRAVEL, LOOSE, WET @ 11', NO ROOTS					
				EOS @ 12'					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

SOIL BORING LOG INFORMATION

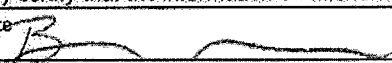
AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number 5-27
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: SOTO		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe
Firm: Del Mar	Start Time: 0903	End Time: 0930	Well Name: NIA	Static Water Level: N/A
Project # 60158985	County Cook	Civil Town/City/Or Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	(0-0.5') CA-6 GRAVEL SUBGRADE	2.8		1	546	
			2.0	(0.5-4.0') URBAN FILL: BROWN-BLACK, F-C SAND AND F-M GRAVEL, TRACE BRICK, TRACE CLINCH, LOOSE, MOIST, NO ROOTS			2	982	
			3.0				3	1222	
			4.0				4	1299	
4	8	GP	5.0	(4-8.0') SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO ROOTS	2.6		5	1090	
			6.0				6	1000	
			7.0				7	818	
			8.0				8	822	
			8.0	EOB @ 8'					

Synthesized @ none

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm AECOM 750 Corporate Woods Parkway, Vernon Hills, Illinois 60061
--	---

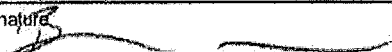
SOIL BORING LOG INFORMATION

AECOM

Project Name Michael Reese		Client Michael Reese		Boring Number S-28	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: John Last Name: Soto		Date Drilling Started	Date Drilling Completed	Drilling Method Geoprobe	
Firm: Del Mar		MM/ 5 DD/ 4 YY 11	MM/ 5 DD/ 4 YY 11		
Start Time: 1144	End Time: 1153	Well Name N/A	Static Water Level N/A	Feet BGS	Borehole Diameter 1.4 inches
Project # 60158985		County Cook	Civil Town/City/Village Chicago, IL		

From (ft)	To (ft)	Sample Method	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	Recovery (ft)	PID/FID	Downhole Rad. Measurements (FT)		
							Depth	CPM	Comments
0	4	GP	1.0	(0.0-5') CA-6 GRAVEL SUBGRADE	2.8		1	799	BORING OFFSET ↓ 4' (BUILDING FOUNDATION ADJACENT)
			2.0	(0.5-4.0') UNDRY FILL: BROWN-BLACK, F-C SAND, AND F-M GRAVEL, LOOSE, MOIST, NO ODDR			2	1480	
			3.0				3	1678	
			4.0				4	774	
4	8	GP	5.0	(4.0-5.5') SAME AS (0.5-4.0') INTERVAL, LOOSE, MOIST, NO ODDR	2.7		5	882	
			6.0	(5.5'-8.0') BROWN NATIVE SAND, SH, F-M SAND, TRACE F GRAVEL, LOOSE, MOIST, NO ODDR			6	675	
			7.0				7	632	
			8.0				8	666	
			9.0	BOB @ 8'					sample @ -3'
			10.0						
			11.0						
			12.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Firm: **AECOM**
750 Corporate Woods Parkway, Vernon Hills, Illinois 60061

Appendix 3: Analytical Results

Illinois Emergency Management Agency
Division of Nuclear Safety
Carnotite Reduction
Soil Sample Results
{pCi/gm}

CARNOTITE Sample Results - Set 1

Sample I.D.	Grid #	Sample	Tl-208		Bi-212		Ac-228		Bi-214		Pb-214		Ra-228 Ra-226 Total Ra			Pa-234m		Th-234		Total U
			Result	Error	Result	Error	Result	Error	Result	Error	Result	Error	Result	Error	Result	Error	Result	Error		
810628	E-10-(1')	core	0.80	0.33	1.68	0.14	0.85	0.32	76.53	3.27	79.54	4.90	1.45	77.46	78.91	ND	ND	ND	ND	ND
810629	G-11-(2')	core	1.44	0.22	1.29	0.64	1.66	0.19	3.52	0.26	4.01	0.35	1.55	3.70	5.25	ND	ND	5.02	2.31	10.28
810630	J-10-(1')	core	0.46	0.09	0.48	0.27	0.56	0.07	4.37	0.22	4.82	0.32	0.52	4.51	5.03	2.44	2.15	2.18	0.94	4.55
810631	F-11-(1')	core	0.54	0.09	1.05	0.34	0.77	0.09	5.07	0.26	5.55	0.37	0.66	5.22	5.88	4.88	2.72	2.78	1.15	6.35
810632	Q-24-(1')	core	0.65	0.10	0.77	0.33	0.63	0.09	16.22	0.70	17.07	1.05	0.64	16.48	17.12	22.65	4.44	16.98	1.96	36.71
810633	I-9-(1')	core	0.43	0.08	0.58	0.32	0.49	0.08	9.63	0.43	9.92	0.63	0.46	9.72	10.18	4.90	3.39	2.94	1.16	6.44
810634	B-6-(3')	core	1.95	0.76	3.49	0.29	0.93	0.72	28.02	1.54	29.73	2.27	3.00	28.56	31.56	1,441.00	128.50	1,068.00	88.38	2,434.95
810635	K-12-(3')	core	0.57	0.10	0.79	0.28	0.67	0.07	3.74	0.19	4.01	0.27	0.65	3.83	4.48	3.87	2.40	2.91	0.87	6.20
810636	B-9-(7')	core	1.34	0.72	4.36	0.36	1.90	0.80	50.77	2.54	55.22	3.83	3.49	52.13	55.63	2,090.00	181.60	1,636.00	130.40	3,670.42
810637	O-28-(2')	core	0.77	0.09	0.85	0.27	0.95	0.07	1.68	0.10	1.89	0.15	0.88	1.74	2.62	ND	ND	1.13	0.65	2.31
810638	R-25-(3')	core	1.03	0.24	1.24	0.10	0.95	0.25	47.54	2.04	50.49	3.11	1.17	48.43	49.61	4.17	8.25	8.58	3.62	16.12
810639	H-4-(2')	core	0.68	0.09	0.79	0.23	0.81	0.07	1.28	0.09	1.45	0.13	0.76	1.33	2.09	ND	ND	0.58	0.63	1.19
810640	P-19-(2')	core	0.38	0.09	0.56	0.45	0.49	0.09	0.81	0.09	0.97	0.13	0.44	0.86	1.30	ND	ND	0.82	0.81	1.69
810641	H-10-(1')	core	0.45	0.20	1.19	0.10	0.64	0.24	31.21	1.41	32.32	2.04	1.00	31.57	32.57	ND	ND	ND	ND	ND
810642	A-6-(5')	core	0.18	0.07	0.42	0.04	0.16	0.08	0.55	0.07	0.42	0.10	0.34	0.50	0.85	5.51	3.09	4.71	1.23	9.89
810643	G-6-(7')	core	0.38	0.08	0.50	0.26	0.50	0.07	2.65	0.15	2.78	0.20	0.45	2.70	3.15	2.62	2.28	2.06	0.75	4.33
810644	N-27-(1')	core	0.41	0.07	0.54	0.27	0.53	0.07	3.59	0.19	4.03	0.27	0.47	3.73	4.20	2.19	1.67	1.51	0.81	3.36
810645	D-4-(2')	core	0.30	0.06	0.41	0.20	0.38	0.06	1.04	0.08	1.16	0.11	0.34	1.08	1.42	ND	ND	0.97	0.64	1.98
810646	E-12-(5')	core	50.78	4.79	41.73	12.48	62.58	4.32	1083.00	44.51	1243.00	75.45	56.33	1,124.31	1,180.63	614.70	142.30	374.20	52.59	826.36
810647	C-13-(2')	core	0.95	0.11	1.07	0.38	1.10	0.10	5.53	0.28	6.00	0.40	1.03	5.69	6.71	2.98	2.74	1.83	0.95	4.01
810648	O-23-(3')	core	1.28	0.68	4.05	0.34	0.82	0.89	98.25	4.59	104.20	6.74	3.23	100.14	103.37	ND	ND	21.52	12.28	44.12
810649	I-8-(1')	core	0.69	0.08	0.78	0.24	0.81	0.07	1.52	0.10	1.71	0.14	0.76	1.59	2.34	1.71	1.94	0.98	0.64	2.15
810650	D-12-(2')	core	0.69	0.10	0.82	0.32	0.92	0.10	5.74	0.28	6.30	0.41	0.81	5.91	6.72	7.30	3.12	3.19	1.02	7.35
810651	F-5-(7')	core	0.62	0.13	0.88	0.40	0.70	0.12	3.67	0.22	3.82	0.32	0.67	3.72	4.40	ND	ND	1.84	1.60	3.77
810652	A-12-(2')	core	1.13	0.45	2.11	0.18	1.45	0.55	55.68	2.55	59.79	3.79	1.94	56.96	58.90	ND	ND	12.03	6.14	24.66
810653	B-4-(2')	core	0.44	0.07	0.54	0.24	0.63	0.07	2.13	0.13	2.41	0.18	0.53	2.22	2.75	1.07	2.77	1.39	0.81	2.79

The MDA results were used for the sample(s) and isotope(s) below because the nuclides were unidentified:

810628	BI-212
810634	BI-212
810636	BI-212
810638	BI-212
810641	BI-212
810642	BI-212
810648	BI-212
810652	BI-212

Illinois Emergency Management Agency
 Division of Nuclear Safety
 Carnotite Reduction Soil Samples
 (pCi/g)

CARNOTITE Sample Results - Set 2

Sample I.D.	Grid #	Sample	Tl-208		Bi-212		Ac-228		Bi-214		Pb-214		Pa-234m			Th-234				
			Result	Error	Result	Error	Result	Error	Result	Error	Result	Error	Ra-228	Ra-226	Total Ra	Result	Error	Result	Error	Total U
810654	N-22-(1')	core	0.31	0.13	0.70	0.06	0.58	0.17	10.91	0.54	11.18	0.75	0.64	11.00	11.64	ND	ND	2.72	1.82	5.57
810655	M-22-(2)	core	0.58	0.15	0.78	0.45	0.62	0.12	4.46	0.27	4.77	0.37	0.61	4.57	5.18	ND	ND	0.31	1.17	0.63
810656	G-12-(2)	core	2.01	0.16	8.66	0.72	0.88	1.78	523.60	21.93	536.70	32.74	2.32	527.66	529.98	ND	ND	15.53	21.52	31.84
810657	O-17-(2)	core	0.50	0.12	0.76	0.47	0.60	0.11	2.15	0.16	2.24	0.21	0.56	2.18	2.74	ND	ND	0.76	1.07	1.56
810658	B-8-(3')	core	3.54	0.75	3.65	2.99	4.07	0.87	269.40	11.18	285.70	17.32	3.76	274.19	277.96	42.97	30.39	89.51	16.31	162.16
810659	E-7-(2')	core	0.54	0.07	0.63	0.28	0.60	0.09	6.11	0.29	6.65	0.43	0.57	6.28	6.85	4.78	3.06	3.05	0.81	6.47
810660	J-13-(3')	core	0.39	0.06	0.38	0.03	0.51	0.08	7.45	0.35	7.78	0.50	0.39	7.56	7.95	ND	ND	2.08	1.01	4.26
810661	M-15-(3')	core	0.40	0.07	0.29	0.25	0.42	0.09	7.89	0.37	8.42	0.53	0.40	8.06	8.46	2.85	2.74	0.76	0.77	1.86
810662	M-15-(2)	core	0.28	0.08	0.36	0.24	0.51	0.08	6.19	0.30	6.54	0.42	0.39	6.30	6.70	ND	ND	0.53	0.81	1.09
810663	K-13-(2)	core	0.29	0.11	0.65	0.05	0.52	0.16	7.41	0.41	7.76	0.56	0.57	7.53	8.11	ND	ND	0.84	1.45	1.72
810664	J-15-(9')	core	0.28	0.06	0.33	0.23	0.34	0.06	0.66	0.06	0.69	0.08	0.31	0.67	0.98	ND	ND	0.53	0.84	1.08
810665	L-19-(2)	core	0.34	0.06	0.66	0.25	0.50	0.06	1.31	0.09	1.38	0.12	0.44	1.33	1.77	2.16	1.37	0.54	0.47	1.45
810666	G-8-(2)	core	1.08	0.09	4.51	0.37	1.55	2.37	106.40	5.00	115.00	7.43	1.26	109.08	110.34	ND	ND	26.56	14.41	54.45
810667	H-7-(1')	core	0.78	0.10	1.06	0.30	0.99	0.08	1.32	0.09	1.55	0.13	0.91	1.39	2.30	ND	ND	1.93	1.06	3.95
810668	J-13-(2)	core	0.53	0.15	0.43	0.78	0.68	0.18	8.51	0.45	9.37	0.65	0.59	8.78	9.37	ND	ND	1.55	1.73	3.18
810669	D-7-(1')	core	2.91	1.19	6.38	0.53	3.53	1.76	233.30	10.15	256.50	15.84	5.64	240.05	245.69	89.34	52.23	74.99	20.31	157.59
810670	E-3-(3')	core	0.49	0.11	0.47	0.38	0.51	0.10	1.00	0.10	1.06	0.14	0.50	1.02	1.52	ND	ND	ND	ND	ND
810671	B-8-(11')	core	0.64	0.05	3.14	0.26	0.58	0.05	0.97	0.36	1.30	0.11	0.65	1.27	1.92	1,615.00	140.60	1,615.00	134.90	3,310.75
810672	B-9-(4')	core	1.14	0.62	3.36	0.28	0.86	0.54	17.97	1.19	20.95	1.74	2.60	18.91	21.52	1,363.00	125.20	1,099.00	92.84	2,444.96
810673	O-23-(2)	core	0.38	0.06	0.30	0.20	0.51	0.05	1.29	0.08	1.43	0.12	0.45	1.34	1.78	ND	ND	0.85	0.65	1.74
810674	M-12-(2)	core	0.45	0.08	0.59	0.23	0.58	0.07	1.93	0.12	2.33	0.18	0.52	2.06	2.58	ND	ND	1.20	0.72	2.45
810675	B-11-(2)	core	1.72	0.14	7.30	0.61	2.49	0.20	361.10	15.29	372.40	23.02	2.15	364.56	366.70	30.19	44.79	40.06	22.04	78.18
810676	A-6-(2)	core	0.71	0.16	0.83	0.07	0.94	0.17	13.56	0.66	13.86	0.91	0.83	13.66	14.49	16.45	7.03	7.61	2.12	17.12
810677	N-19-(1)	core	0.80	0.23	0.82	0.45	0.64	0.18	14.66	0.72	15.68	1.03	0.71	14.99	15.71	10.02	8.08	7.12	2.45	15.09
810678	H-6-(3')	core	0.29	0.07	0.30	0.20	0.37	0.05	2.25	0.12	2.50	0.18	0.34	2.33	2.67	ND	ND	0.99	0.78	2.02
810679	O-26-(2)	core	0.63	0.15	0.64	0.54	0.62	0.16	14.51	0.69	14.97	0.97	0.63	14.67	15.29	ND	ND	1.80	2.02	3.68

The MDA results were used for the sample(s) and isotope(s) below because the nuclides were unidentified:

- 810654 BI-212
- 810656 TL-208
- 810656 BI-212
- 810660 BI-212
- 810663 BI-212
- 810666 TL-208
- 810666 BI-212
- 810669 BI-212
- 810671 TL-208
- 810671 BI-212
- 810671 PB-214
- 810671 AC-228
- 810672 BI-212
- 810675 TL-208
- 810675 BI-212
- 810675 AC-228
- 810676 BI-212

**Illinois Emergency Management Agency
Division of Nuclear Safety
Carnotite Reduction Soil Samples
(pCi/g)**

CARNOTITE Sample Results - Set :

Sample I.D.	reference	Sample	Tl-208		Bi-212		Ac-228		Bi-214		Pb-214		Pa-234m			Th-234				
			Result	Error	Result	Error	Result	Error	Result	Error	Result	Error	Result	Error	Result	Error	Total U			
810680	N-14-(1')	core	0.30	0.06	0.30	0.18	0.34	0.05	1.87	0.11	1.93	0.15	0.32	1.89	2.21	ND	ND	0.63	0.70	1.29
810681	H-17-(8')	core	0.35	0.06	0.52	0.20	0.52	0.06	1.52	0.10	1.72	0.14	0.44	1.58	2.02	3.89	2.13	1.59	0.84	3.90
810682	H-12-(4')	core	0.59	0.26	1.70	0.14	0.58	0.48	61.91	2.70	61.51	3.81	1.39	61.78	63.16	19.44	14.47	4.35	4.00	11.11
810683	G-8-(3')	core	0.64	0.09	0.76	0.27	0.93	0.09	4.83	0.24	5.06	0.34	0.79	4.91	5.70	15.71	3.78	12.94	1.50	27.30
810684	C-10-(7')	core	0.37	0.03	1.10	1.42	0.22	0.33	15.80	0.89	17.54	1.27	0.37	16.37	16.74	167.30	23.52	116.60	12.49	261.89
810685	A-8-(10')	core	0.68	0.05	3.11	0.26	0.64	0.05	0.48	0.38	1.43	0.12	0.71	1.34	2.05	1,724.00	151.50	1,320.00	109.50	2,990.19

The MDA results were used for the sample(s) and isotope(s) below because the nuclides were unidentified:

810682	BI-212
810684	TL-208
810685	TL-208
810685	BI-212
810685	PB-214
810685	AC-228

Microbac

Samples Submitted to: 250 West 84th Drive
Merrillville, IN 46410
Tel: 219-769-8378
Fax: 219-769-1664

5713 West 85th Street
Indianapolis, IN 46278
Tel: 317-872-1375
Fax: 317-872-1379

Chain of Custody RecordNumber **101656**

Instructions on back

Client Name AECOM		Project CARLOTITE		Turnaround Time		Report Type	
Address 750 CORPORATE WOODS PKWY		Location CHICAGO, IL		<input type="checkbox"/> Routine (7 working days)		<input type="checkbox"/> Results Only <input type="checkbox"/> Level II	
City, State, Zip VERNON HILLS, IL 60061		PO #		<input type="checkbox"/> RUSH* (notify lab)		<input type="checkbox"/> Level III <input type="checkbox"/> Level III CLP-like	
Contact STEVE KOROSZ		Compliance Monitoring? <input type="checkbox"/> Yes(1) <input type="checkbox"/> No		_____ (needed by)		<input type="checkbox"/> Level IV <input type="checkbox"/> Level IV CLP-like	
Telephone # 847-279-2448		(1) Agency/Program				<input type="checkbox"/> EDD	
Sampled by (PRINT) BRIAN SCUMOT		Sampler Signature		Sampler Phone # 847-778-6727			
Send Report via <input type="checkbox"/> Mail <input type="checkbox"/> Telephone <input checked="" type="checkbox"/> Fax (fax #) 847-279-2510		<input type="checkbox"/> e-mail (address) Steve.Korosz@aecom.com					

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	For Lab Use Only											
									GAMMA SPEC											
E-10-(1')					4/20/11		1	X												
G-11-(2')					4/18/11		1	X												
J-10-(1')					4/21/11		1	X												
F-11-(1')					4/18/11		1	X												
Q-24-(1) ^{5/10/11} (1) ^{SOIL} (2)					5/3/11		1	X												
I-9-(1')					4/21/11		1	X												
B-6-(3')					4/22/11		1	X												
K-12-(3')					4/15/11		1	X												
B-9-(7')					4/25/11		1	X												
O-28-(2')					4/29/11		1	X												
R-25-(3')					5/3/11		1	X												

Possible Hazard Identification <input type="checkbox"/> Hazardous <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Radioactive		Sample Disposition <input type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive	
Comments	Relinquished By (signature) 	Date/Time 5/9/11 1505	Received By (signature)
	Relinquished By (signature)	Date/Time	Received By (signature)
	Relinquished By (signature)	Date/Time	Received for Lab By (signature)
Sample temperature upon receipt in degrees C =		Date/Time 5/12/2011 15:05	Date/Time

Microbac

Samples Submitted to: 250 West 84th Drive
Merrillville, IN 46410
Tel: 219-769-8378
Fax: 219-769-1664

5713 West 85th Street
Indianapolis, IN 46278
Tel: 317-872-1375
Fax: 317-872-1379

Chain of Custody RecordNumber **101657**

Instructions on back

Client Name AECOM	Project CARNOTITE	Turnaround Time <input type="checkbox"/> Routine (7 working days) <input type="checkbox"/> RUSH* (notify lab) (needed by)	Report Type	
Address 750 CORPORATE WOODS PARK	Location CHICAGO, IL		<input type="checkbox"/> Results Only	<input type="checkbox"/> Level II
City, State, Zip VERNON HILLS, IL 60061	PO #	<input type="checkbox"/> Level III	<input type="checkbox"/> Level III CLP-like	
Contact Steve Korndor	Compliance Monitoring? <input type="checkbox"/> Yes(1) <input type="checkbox"/> No	<input type="checkbox"/> Level IV	<input type="checkbox"/> Level IV CLP-like	
Telephone # 847-279-2448	(1) Agency/Program	<input type="checkbox"/> EDD		
Sampled by (PRINT) BRAD SCHMIDT	Sampler Signature	Sampler Phone # 847-778-6727		
Send Report via <input type="checkbox"/> Mail <input type="checkbox"/> Telephone <input checked="" type="checkbox"/> Fax (fax #) 847-279-2510	E-mail (address) Steve.korndor@aecom.com			

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	For Lab Use Only												
									GAMMA SPEC												
H-4-(2')					4/26/11		1	X													
P-19-(2')					4/29/11		1	X													
H-10-(1')					4/20/11		1	X													
A-6-(5')					4/22/11		1	X													
G-6-(7')					4/28/11		1	X													
N-27-(1')					4/12/11		1	X													
D-4-(2')					4/25/11		1	X													
E-12-(5')					4/18/11		1	X													
C-13-(2')					4/18/11		1	X													
O-23-(3')					4/14/11		1	X													
I-8-(1')					4/29/11		1	X													

Possible Hazard Identification <input type="checkbox"/> Hazardous <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Radioactive	Sample Disposition <input type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive			
Comments	Relinquished By (signature) 	Date/Time 5/9/11 1505	Received By (signature) Morton Rawworth	Date/Time 5/09/2011 15:05
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time
Sample temperature upon receipt in degrees C =				

Microbac

Samples Submitted to: 250 West 84th Drive
Merrillville, IN 46410
Tel: 219-769-8378
Fax: 219-769-1664

5713 West 85th Street
Indianapolis, IN 46278
Tel: 317-872-1375
Fax: 317-872-1379

Chain of Custody Record

Number **101658**

Instructions on back

Client Name AECOM	Project CANOTITE	Turnaround Time	Report Type
Address 750 CORPORATE WOODS PKWY	Location CHICAGO, IL	<input type="checkbox"/> Routine (7 working days)	<input type="checkbox"/> Results Only <input type="checkbox"/> Level II
City, State, Zip VERNON HILLS, IL 60061	PO #	<input type="checkbox"/> RUSH* (notify lab)	<input type="checkbox"/> Level III <input type="checkbox"/> Level III CLP-like
Contact STEVE KORWATH	Compliance Monitoring? <input type="checkbox"/> Yes(1) <input type="checkbox"/> No	(needed by)	<input type="checkbox"/> Level IV <input type="checkbox"/> Level IV CLP-like
Telephone # 847-279-2448	(1) Agency/Program		<input type="checkbox"/> EDD

Sampled by (PRINT) **BRAD SCHMIDT** Sampler Signature *[Signature]* Sampler Phone # **847-778-6777**

Send Report via Mail Telephone Fax (fax #) **847-279-2510** e-mail (address) **Steve.Korwath@aecom.com**

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)
 ** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	For Lab Use Only												
D-12 - (2')					4/18/11		1	X													
F-5 - (7')					4/26/11		1	X													
A-12 - (2')					4/22/11		1	X													
B-4 - (2')					4/22/11		1	X													
N-22 - (11')					4/27/11		1	X													
M-22 - (2')					4/13/11		1	X													
G-12 - (2')					4/18/11		1	X													
O-17 - (2')					4/14/11		1	X													
B-8 - (3')					4/25/11		1	X													
E-7 - (2')					4/26/11		1	X													
J-13 - (3')					4/9/11		1	X													

Possible Hazard Identification Hazardous Non-Hazardous Radioactive

Sample Disposition Dispose as appropriate Return Archive

Comments	Relinquished By (signature) <i>[Signature]</i>	Date/Time 5/9/11 1505	Received By (signature) <i>[Signature]</i>	Date/Time 5/09/2011 15:05
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time

Sample temperature upon receipt in degrees C =

Microbac

Samples Submitted to: 250 West 84th Drive
Merrillville, IN 46410
Tel: 219-769-8378
Fax: 219-769-1664

5713 West 85th Street
Indianapolis, IN 46278
Tel: 317-872-1375
Fax: 317-872-1379

Chain of Custody Record

Number **101661**

Instructions on back

Client Name Alcon	Project CARJOTITE	Turnaround Time	Report Type
Address 750 CORPORATE WOODS PARK	Location CHICAGO, IL	<input type="checkbox"/> Routine (7 working days)	<input type="checkbox"/> Results Only <input type="checkbox"/> Level II
City, State, Zip VERNON HILLS, IL 60061	PO #	<input type="checkbox"/> RUSH* (notify lab)	<input type="checkbox"/> Level III <input type="checkbox"/> Level III CLP-like
Contact STEVE KUNZNER	Compliance Monitoring? <input type="checkbox"/> Yes(1) <input type="checkbox"/> No	(needed by)	<input type="checkbox"/> Level IV <input type="checkbox"/> Level IV CLP-like
Telephone # 847-279-2445	(1) Agency/Program		<input type="checkbox"/> EDD

Sampled by (PRINT) **BRAD SCHMIDT** Sampler Signature Sampler Phone # **847-278-6727**

Send Report via Mail Telephone Fax (fax #) **847-279-2510** E-mail (address) **Steve.Kunzner@alcon.com**

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)
 ** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses Preservative Types **	For Lab Use Only									
M-15-(3')					4/15/11		1	X	GAMMA SPEC.									
M-15-(2')					4/15/11		1	X										
K-13-(2')					4/15/11		1	X										
J-15-(9')					4/19/11		1	X										
L-19-(2')					4/13/11		1	X										
G-8-(2')					4/21/11		1	X										
H-7-(1')					4/28/11		1	X										
T-13-(2')					4/19/11		1	X										
D-7-(1')					4/25/11		1	X										
E-3-(3')					4/26/11		1	X										
B-8-(11')					4/25/11		1	X										

Possible Hazard Identification Hazardous Non-Hazardous Radioactive Sample Disposition Dispose as appropriate Return Archive

Comments	Relinquished By (signature) 	Date/Time 5/9/11 1505	Received By (signature) 	Date/Time 5/09/2011 15:05
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time

Sample temperature upon receipt in degrees C =

Microbac

Samples Submitted to: 250 West 84th Drive
Merrillville, IN 46410
Tel: 219-769-8378
Fax: 219-769-1664

5713 West 85th Street
Indianapolis, IN 46278
Tel: 317-872-1375
Fax: 317-872-1379

Chain of Custody Record

Number **101662**

Instructions on back

Client Name <u>Aecom</u>	Project <u>CARNOTITE</u>	Turnaround Time <input type="checkbox"/> Routine (7 working days) <input type="checkbox"/> RUSH* (notify lab) (needed by)	Report Type	
Address <u>750 Corporate Woods Pkwy</u>	Location <u>CHICAGO, IL</u>		<input type="checkbox"/> Results Only	<input type="checkbox"/> Level II
City, State, Zip <u>VERNON HILLS, IL 60061</u>	PO #		<input type="checkbox"/> Level III	<input type="checkbox"/> Level III CLP-like
Contact <u>STEVE MORNER</u>	Compliance Monitoring? <input type="checkbox"/> Yes(1) <input type="checkbox"/> No		<input type="checkbox"/> Level IV	<input type="checkbox"/> Level IV CLP-like
Telephone # <u>847-279-2448</u>	(1) Agency/Program		<input type="checkbox"/> EDD	

Sampled by (PRINT) BARBARA SCHMIDT Sampler Signature B Sampler Phone # 847-778-6727
 Send Report via Mail Telephone Fax (fax #) 847-279-7510 e-mail (address) STEVE.MORNER@AECOM.COM

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)
 ** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	For Lab Use Only												
									Gamma	SPC											
B-9-(4')					4/21/11		1	X													
O-23-(2')					4/14/11		1	X													
M-12-(2')					4/28/11		1	X													
B-11-(2')					4/25/11		1	X													
A-6-(2')					4/22/11		1	X													
N-19-(1')					4/27/11		1	X													
H-6-(3')					4/26/11		1	X													
O-26-(2')					4/14/11		1	X													
N-14-(1')					4/28/11		1	X													
H-7-(8')					4/28/11		1	X													
H-12-(4')					4/19/11		1	X													

Possible Hazard Identification Hazardous Non-Hazardous Radioactive Sample Disposition Dispose as appropriate Return Archive

Comments	Relinquished By (signature) <u>[Signature]</u>	Date/Time <u>5/9/11 1505</u>	Received By (signature) <u>[Signature]</u>	Date/Time <u>15:05</u>
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time

Sample temperature upon receipt in degrees C =

Microbac

Samples Submitted to: [] 250 West 84th Drive Merrillville, IN 46410 Tel: 219-769-8378 Fax: 219-769-1664

[] 5713 West 85th Street Indianapolis, IN 46278 Tel: 317-872-1375 Fax: 317-872-1379

Chain of Custody Record

Number 101663

Instructions on back

Client Name: ARCOM, Project: CARNOTITE, Address: 750 CORPORATE WOODS PARKWAY, City: VERNON HILLS, IL 60061, Contact: STEVE KORNOEN, Telephone: 847-279-2448, Location: CHICAGO, IL, PO #, Compliance Monitoring: [] Yes(1) [] No, Turnaround Time: [] Routine (7 working days) [] RUSH* (notify lab), Report Type: [] Results Only [] Level II [] Level III [] Level III CLP-like [] Level IV [] Level IV CLP-like [] EDD, Sampled by: BARRY SUNDI, Sampler Signature: [Signature], Sampler Phone #: 847-778-6727, Send Report via: [] Mail [] Telephone [X] Fax (fax #) 847-279-2500, [X] e-mail (address) STEVE.KORNOEN@ARCOM.COM

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

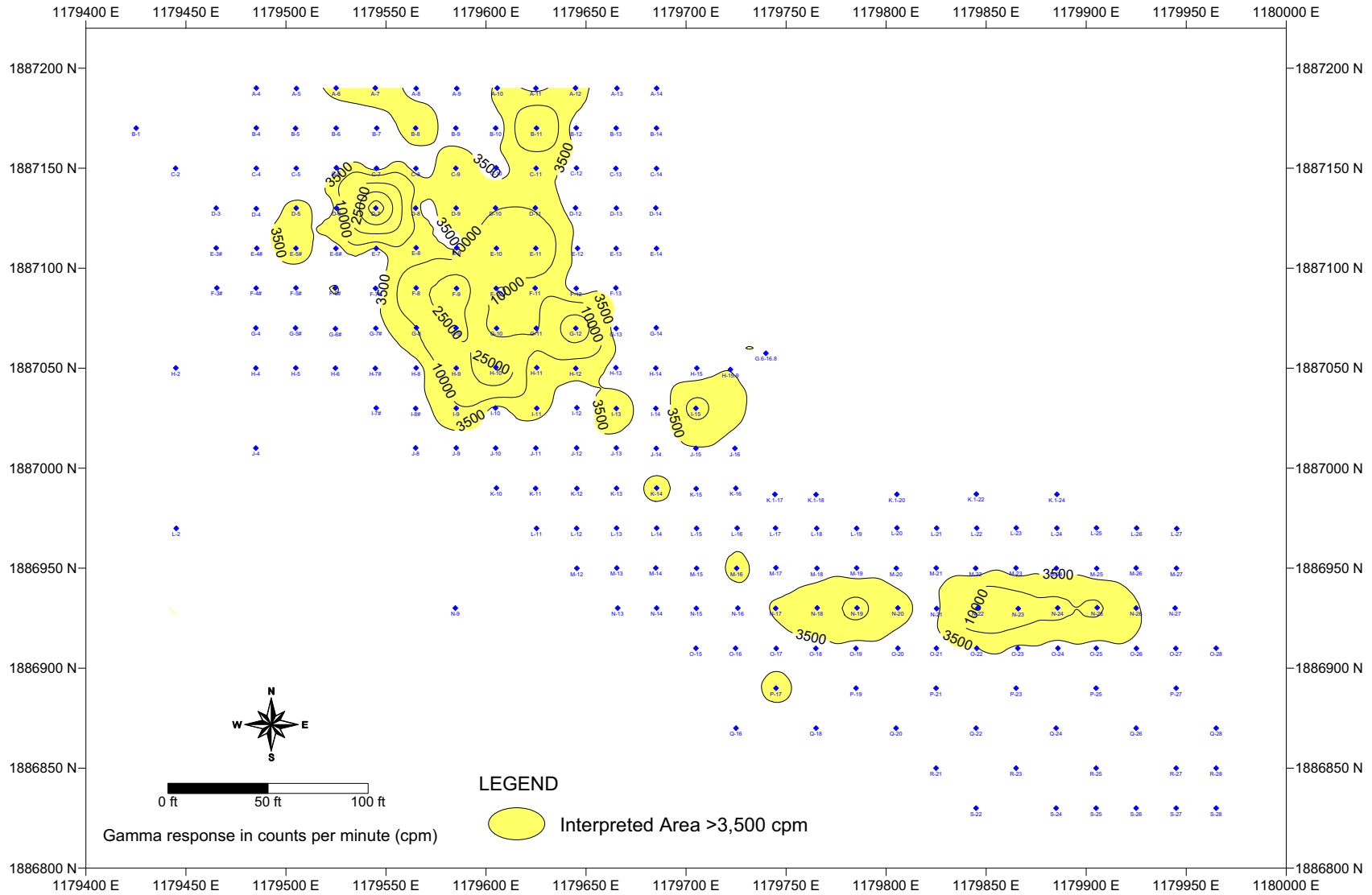
Table with columns: Client Sample ID, Matrix*, Grab, Composite, Filtered, Date Collected, Time Collected, No. of Containers, Requested Analyses, Preservative Types**, and For Lab Use Only. Rows include G-8-(3'), C-10-(7'), and A-8-(10').

Possible Hazard Identification: [] Hazardous [] Non-Hazardous [] Radioactive Sample Disposition: [] Dispose as appropriate [] Return [] Archive Comments: Relinquished By (signature) [Signature], Date/Time 5/9/11 1505, Received By (signature) [Signature], Date/Time 5/9/2011 15:05

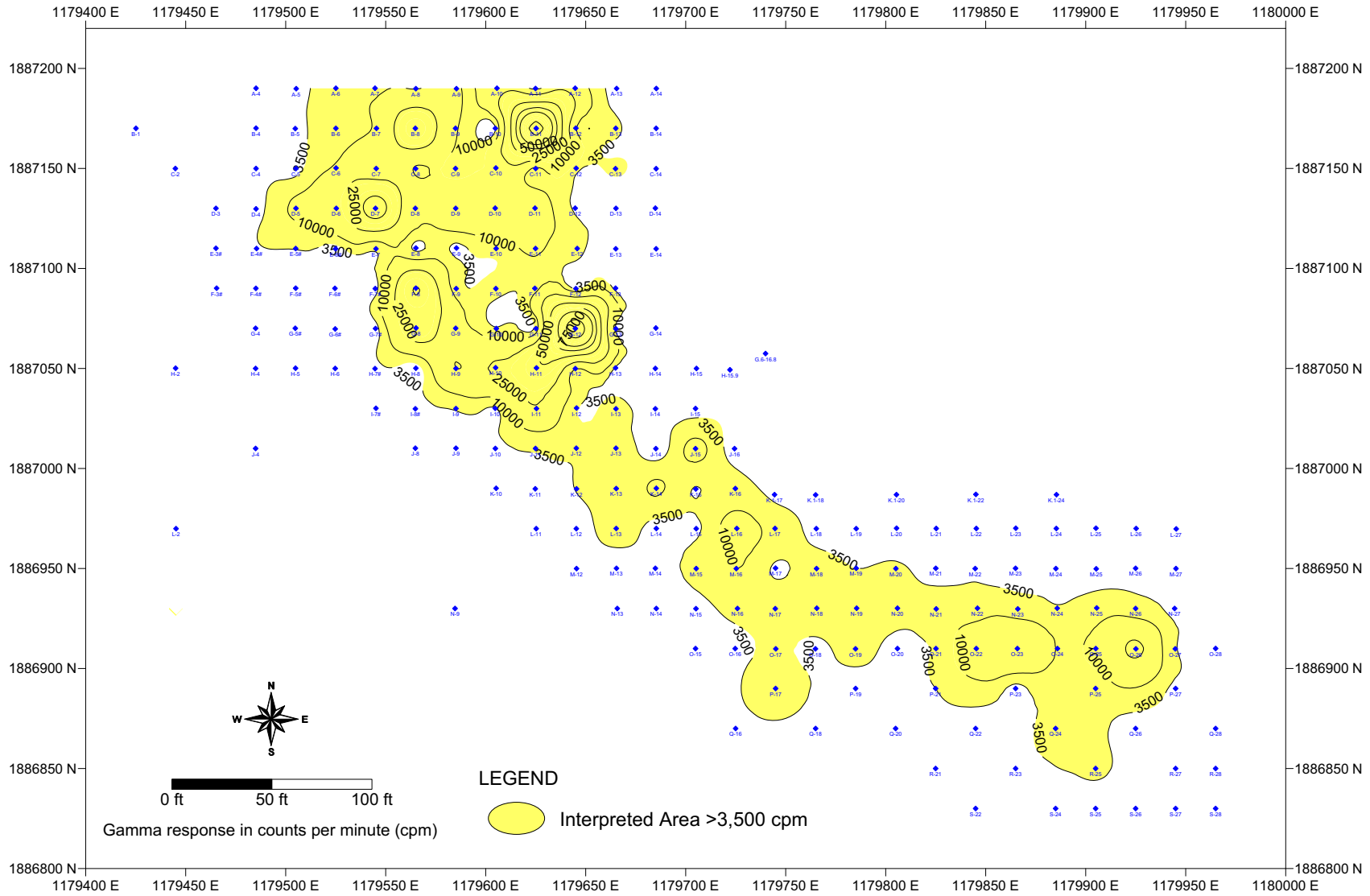
Appendix 4: Equipment Release Survey

Appendix 5: Down-hole Gamma Survey Contour Drawings

Former Carnotite Reduction Company, Chicago, IL Borehole Gamma Response (0-1 ft Subsurface Interval) Contour Map Spring 2011

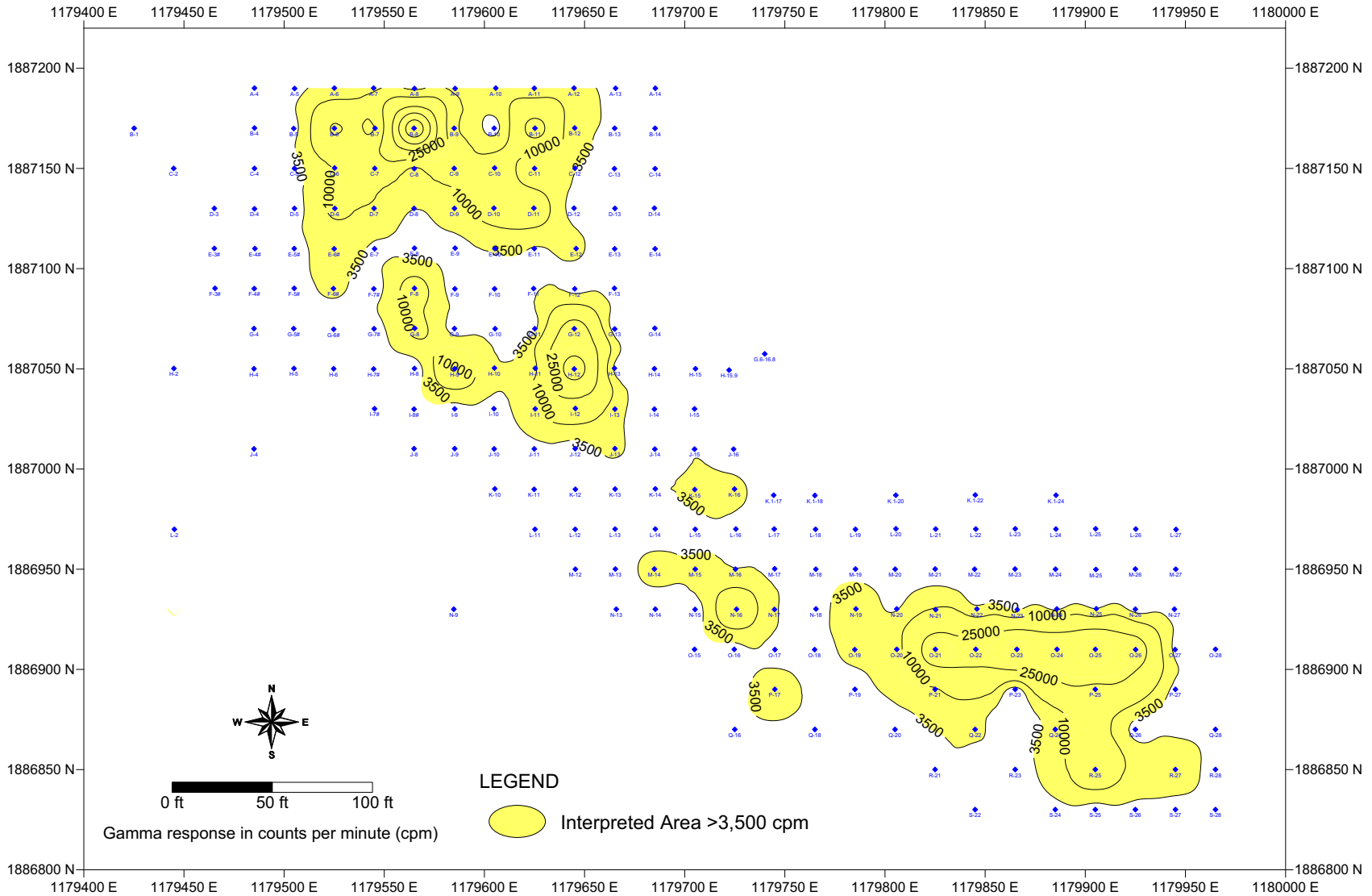


Former Carnotite Reduction Company, Chicago, IL Borehole Gamma Response (1-2 ft Subsurface Interval) Contour Map Spring 2011

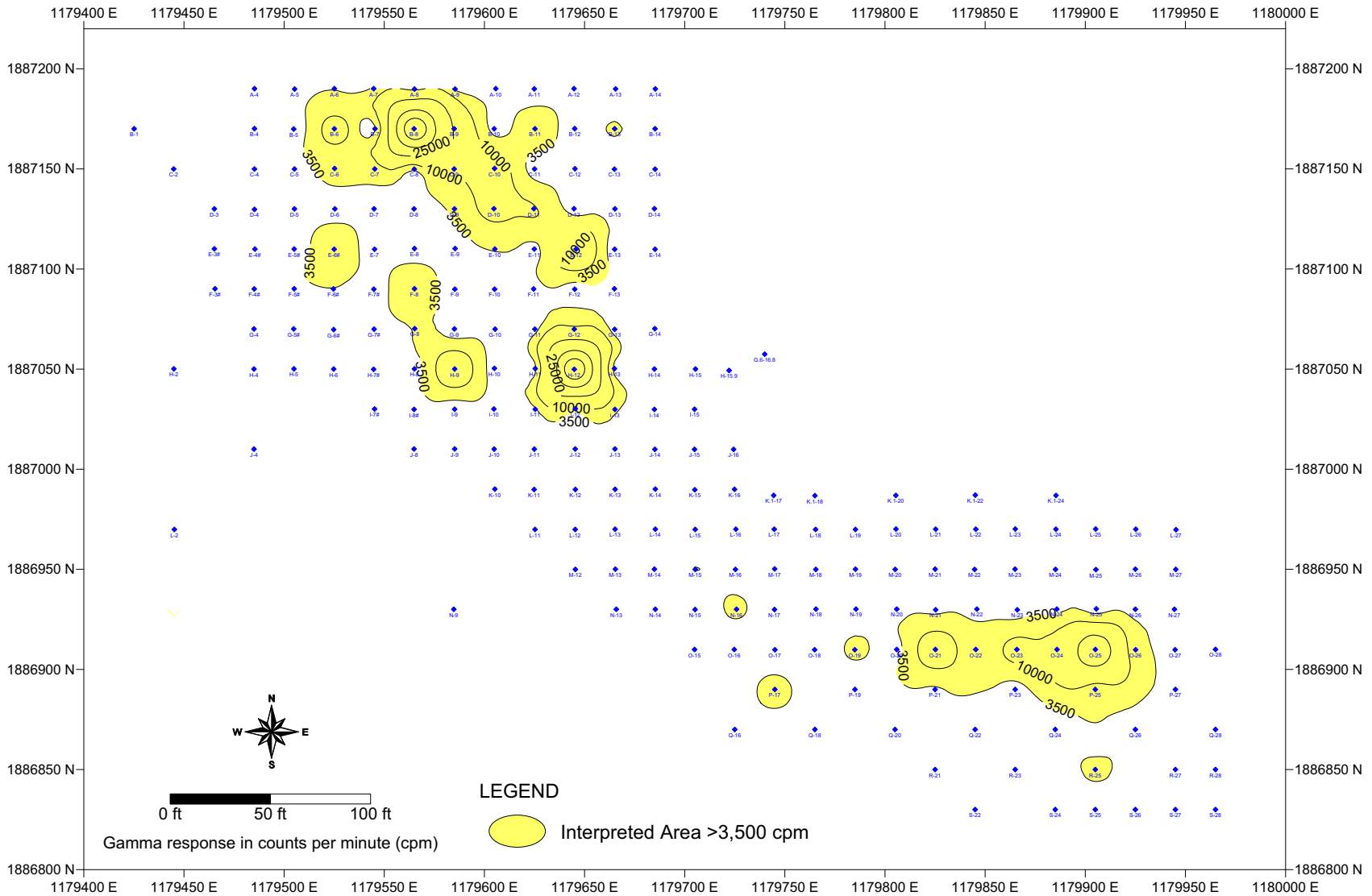


Grid Spacing 10 x 10 ft
Search Radius 50 x 50 ft

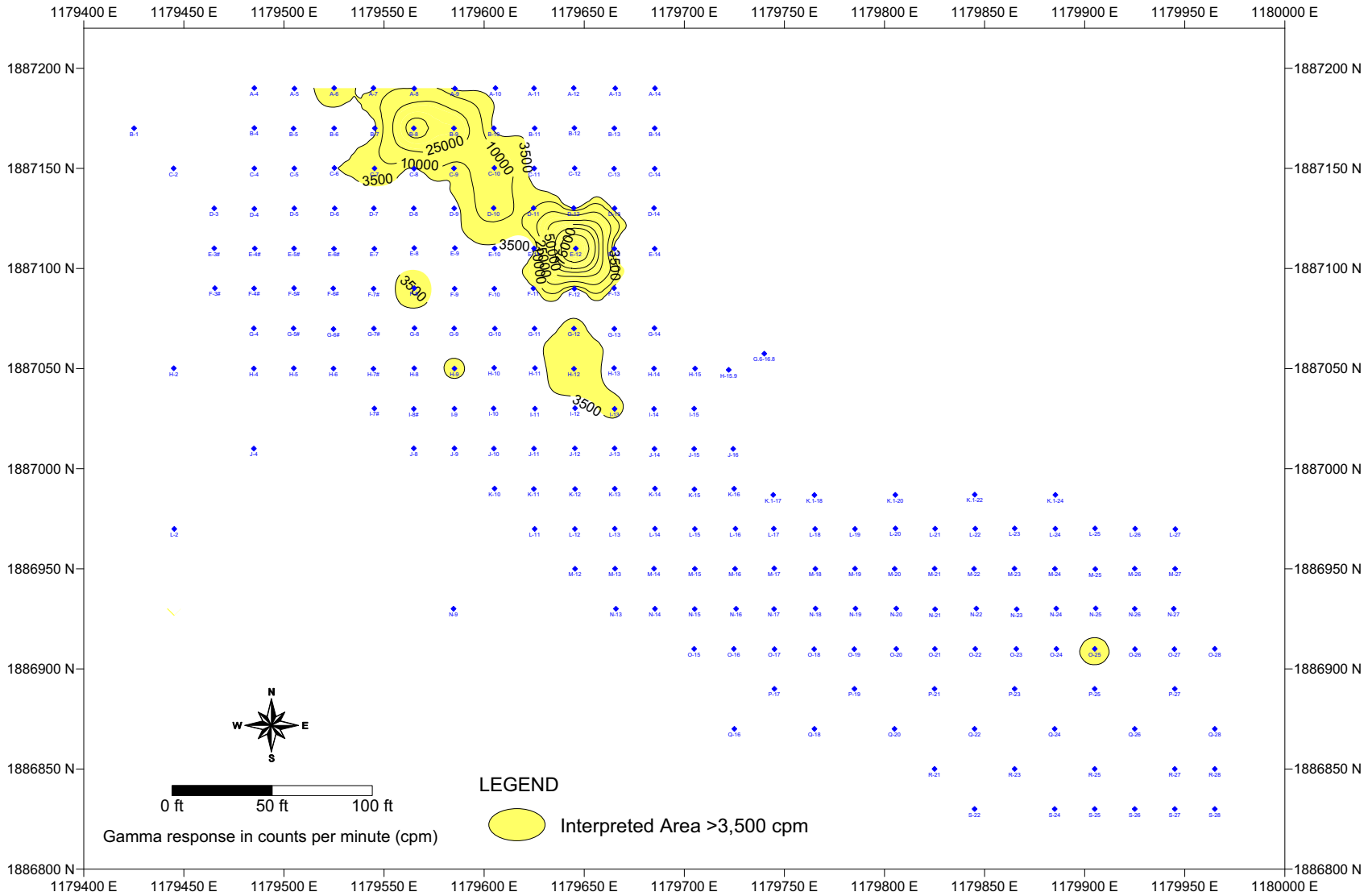
Former Carnotite Reduction Company, Chicago, IL Borehole Gamma Response (2-3 ft Subsurface Interval) Contour Map Spring 2011



Former Carnotite Reduction Company, Chicago, IL Borehole Gamma Response (3-4 ft Subsurface Interval) Contour Map Spring 2011

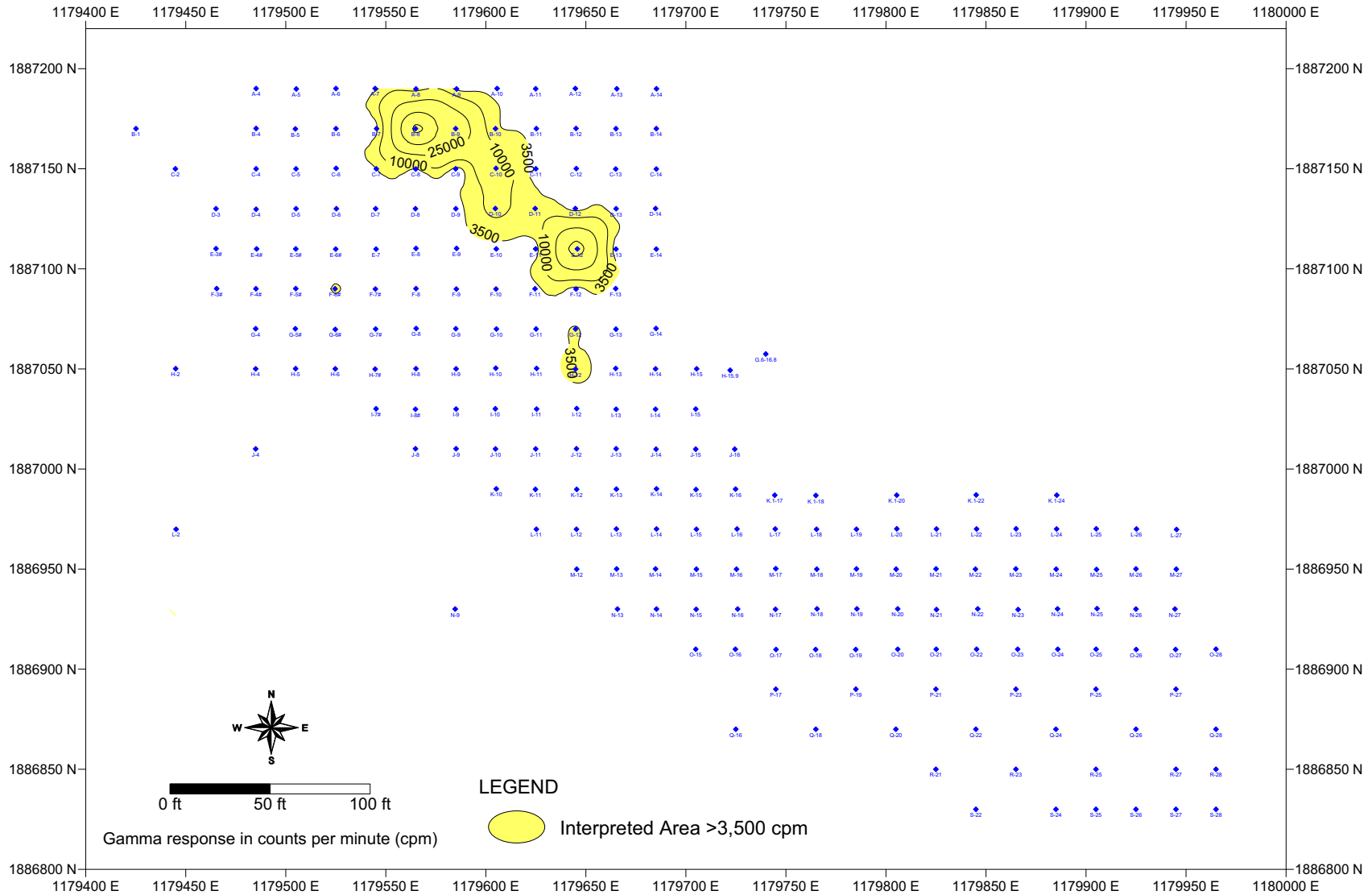


Former Carnotite Reduction Company, Chicago, IL Borehole Gamma Response (4-5 ft Subsurface Interval) Contour Map Spring 2011

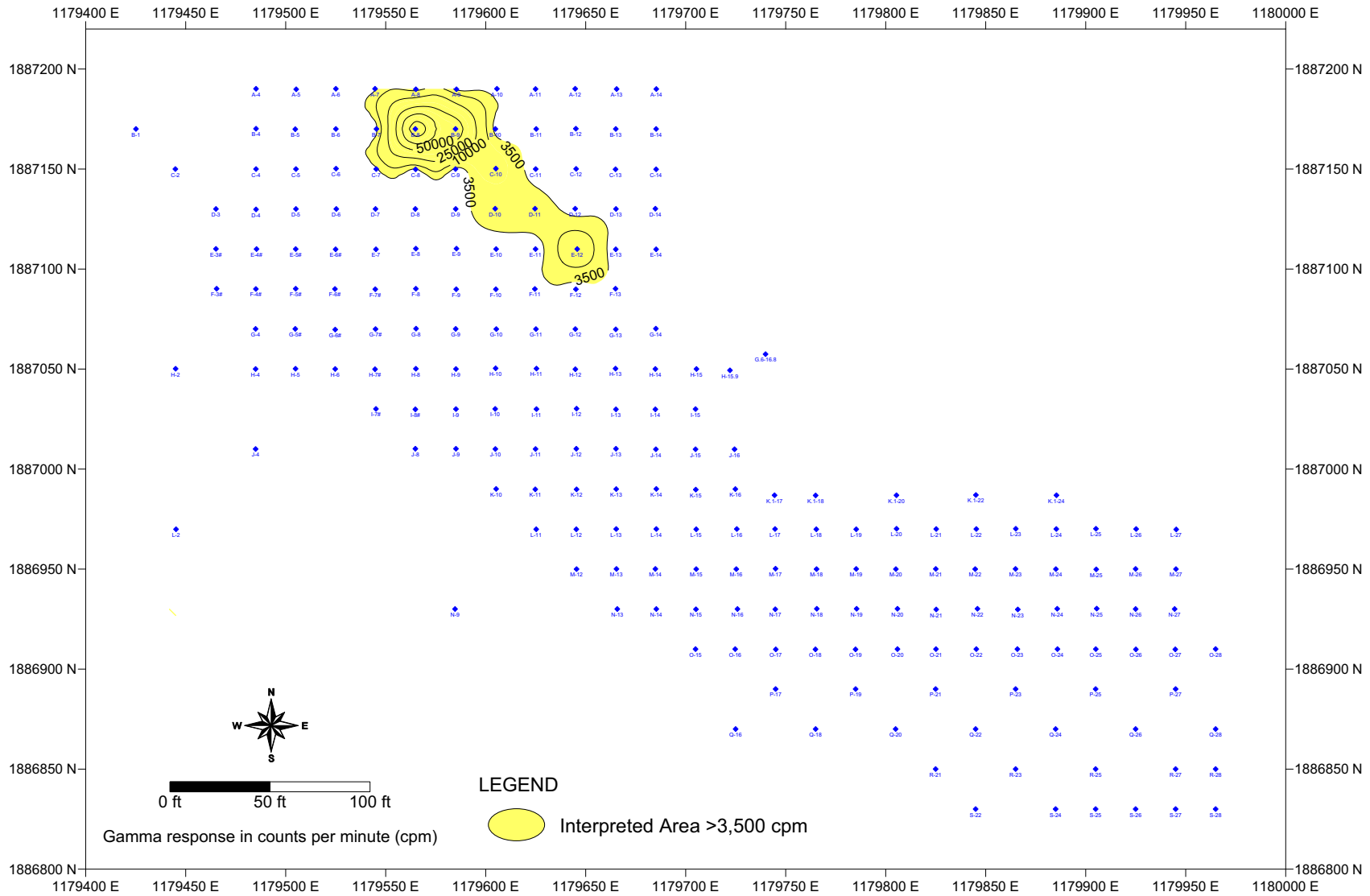


Grid Spacing 10 x 10 ft
Search Radius 50 x 50 ft

Former Carnotite Reduction Company, Chicago, IL Borehole Gamma Response (5-6 ft Subsurface Interval) Contour Map Spring 2011

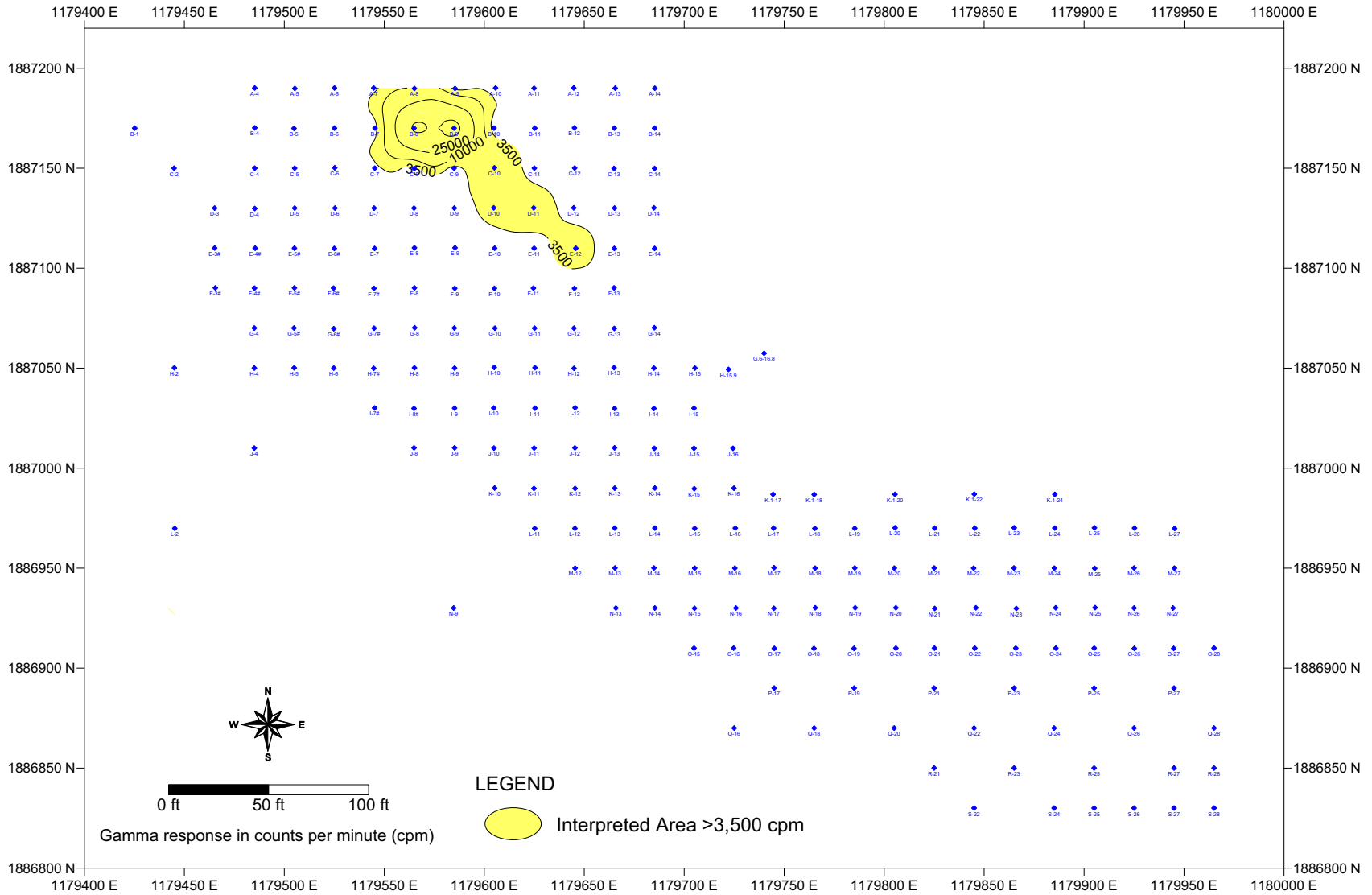


Former Carnotite Reduction Company, Chicago, IL Borehole Gamma Response (6-7 ft Subsurface Interval) Contour Map Spring 2011



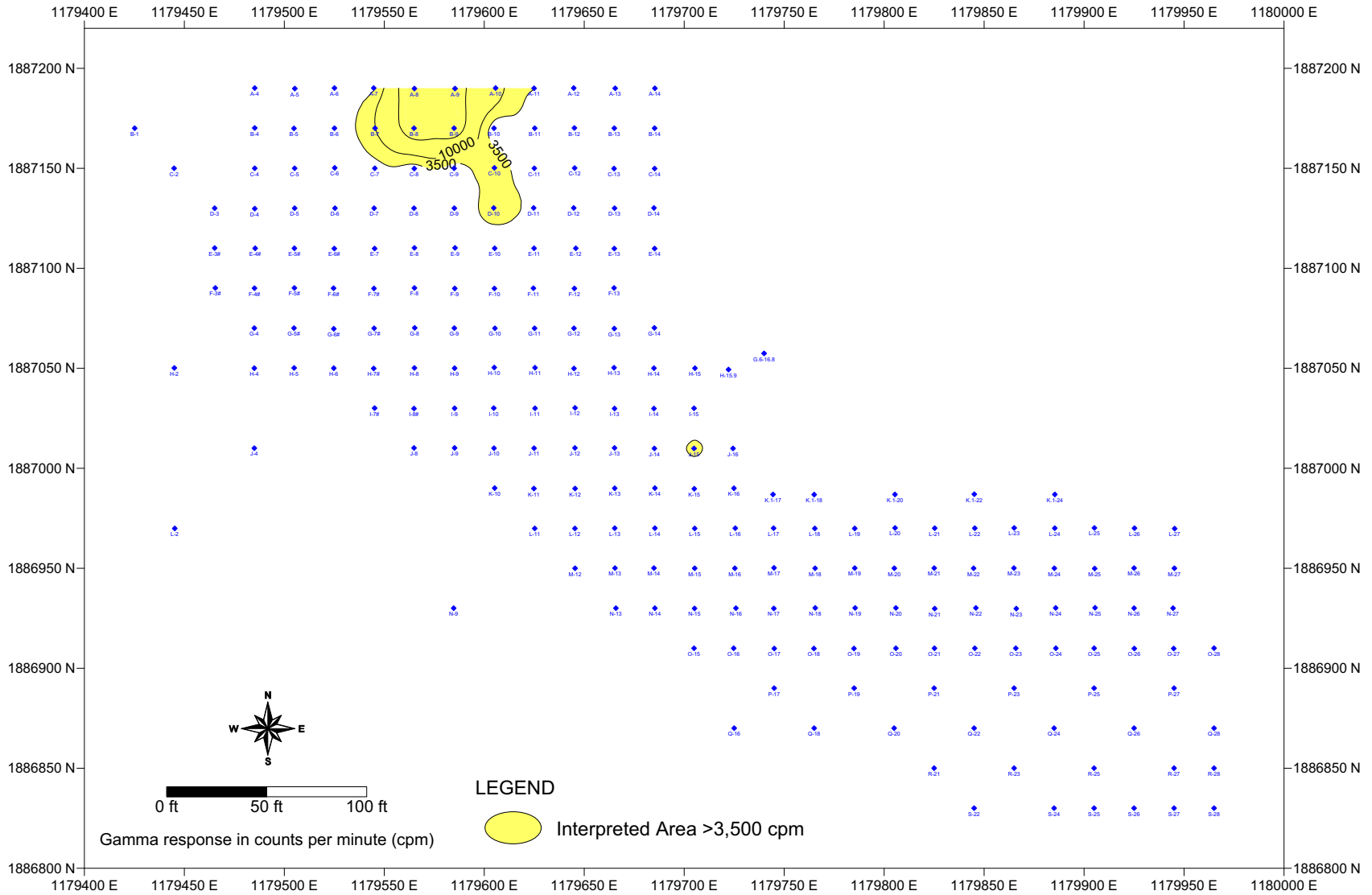
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Search Radius 50 x 50 ft

Former Carnotite Reduction Company, Chicago, IL Borehole Gamma Response (7-8 ft Subsurface Interval) Contour Map Spring 2011

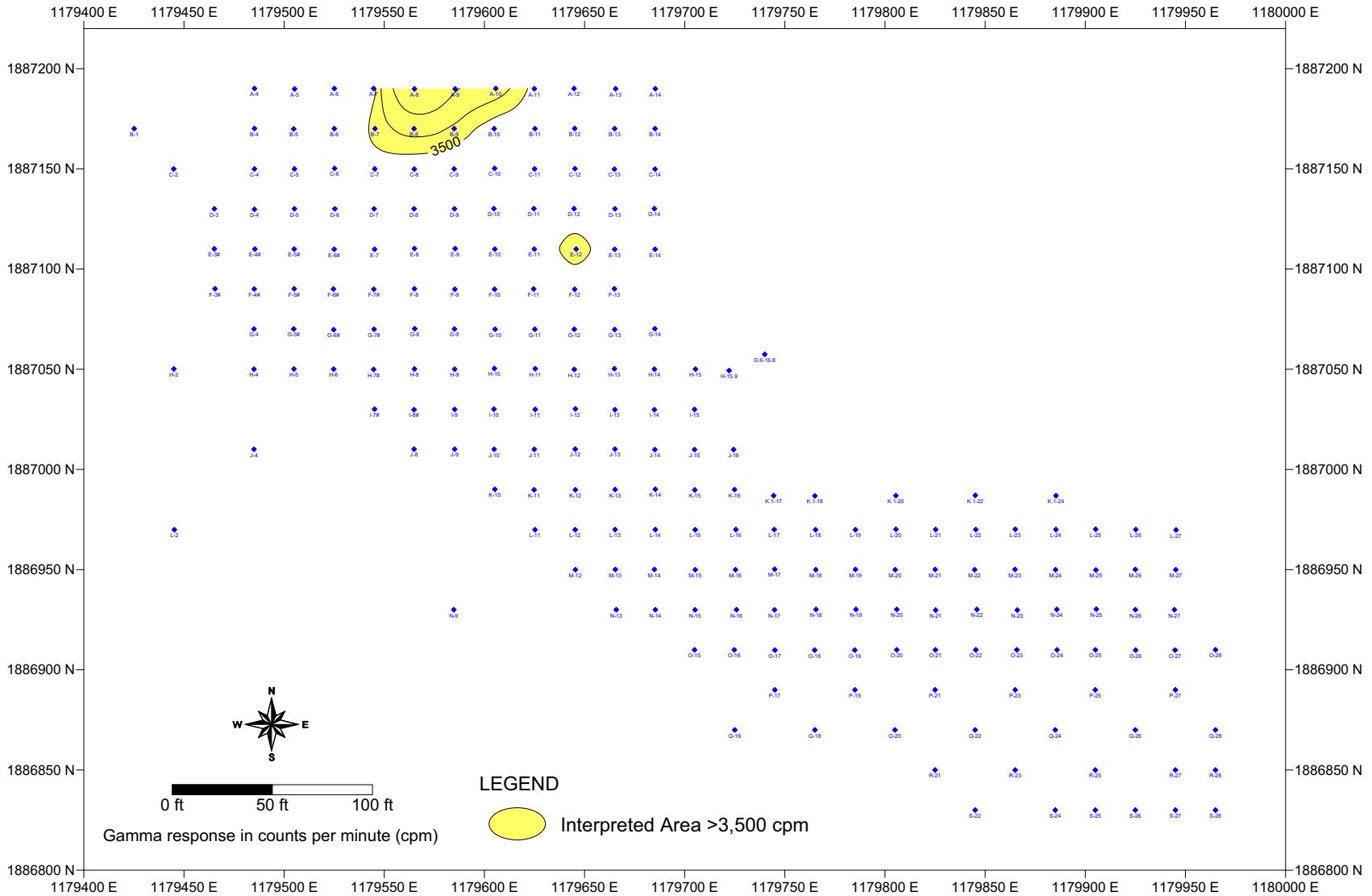


Grid Spacing 10 x 10 ft
Search Radius 50 x 50 ft

Former Carnotite Reduction Company, Chicago, IL Borehole Gamma Response (8-9 ft Subsurface Interval) Contour Map Spring 2011

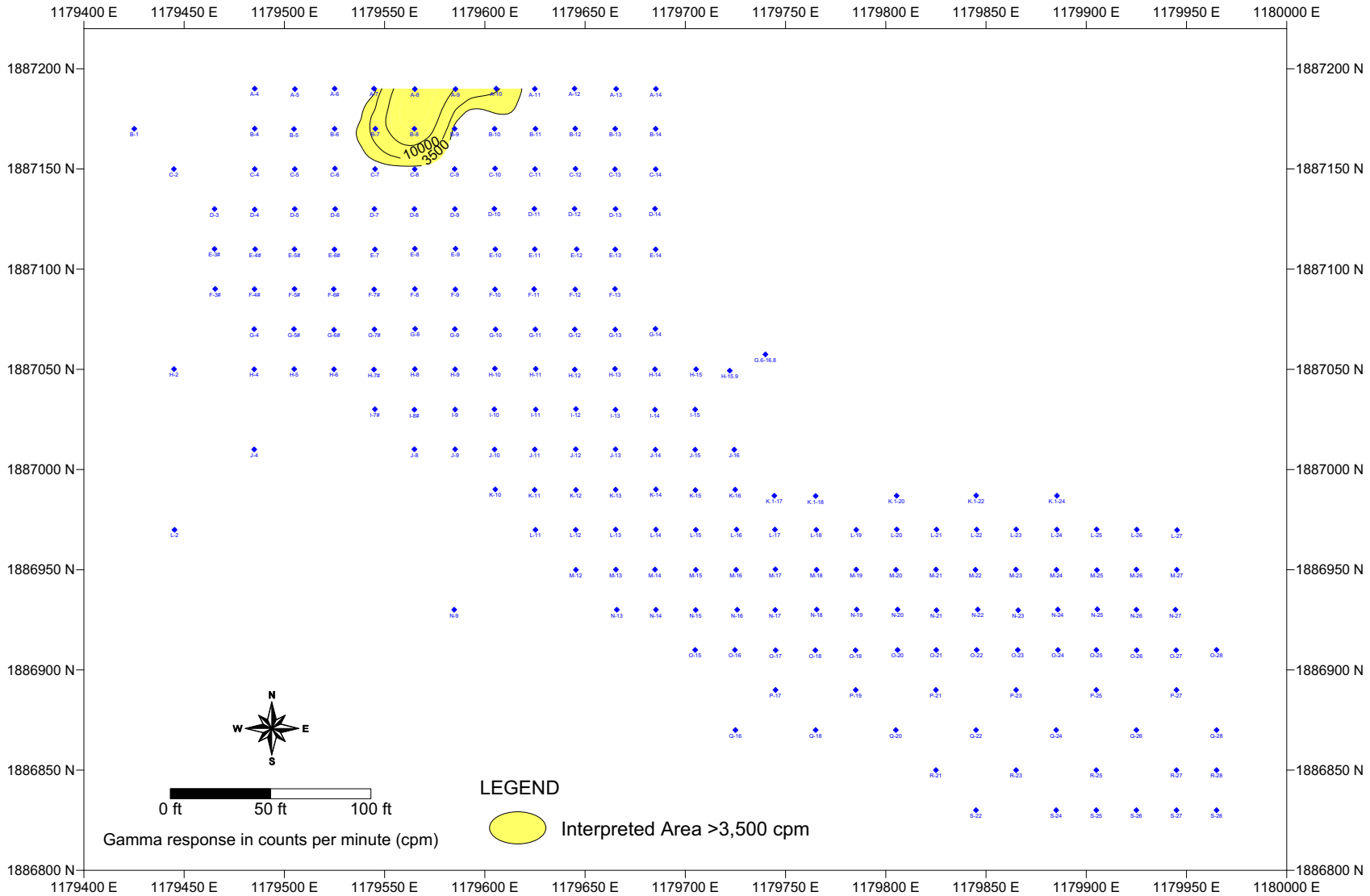


Former Carnotite Reduction Company, Chicago, IL Borehole Gamma Response (9-10 ft Subsurface Interval) Contour Map Spring 2011

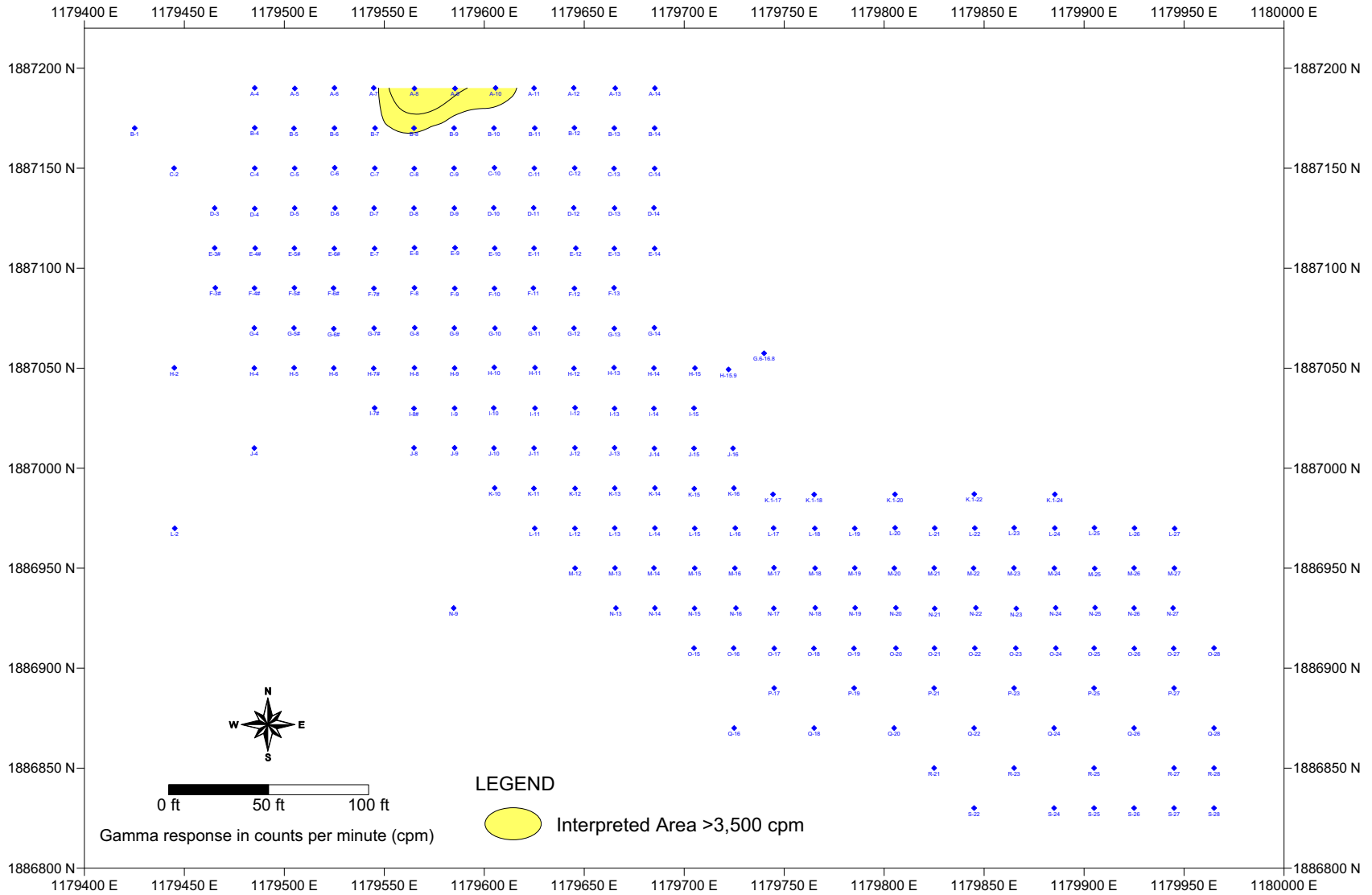


Grid Spacing 10 x 10 ft
Search Radius 50 x 50 ft

Former Carnotite Reduction Company, Chicago, IL Borehole Gamma Response (10-11 ft Subsurface Interval) Contour Map Spring 2011



Former Carnotite Reduction Company, Chicago, IL Borehole Gamma Response (11-12 ft Subsurface Interval) Contour Map Spring 2011



Grid Spacing 10 x 10 ft
Search Radius 50 x 50 ft