



DEPARTMENT OF FLEET AND FACILITY MANAGEMENT  
CITY OF CHICAGO

December 3, 2019

Jerry Minor-Gordon  
U.S. Environmental Protection Agency (EPA)  
5 Post Office Square  
Mail Code: OSR  
Boston, MA 02109-3912

Submitted through: [grants.gov](https://www.grants.gov)

Re: City of Chicago FY20 EPA Brownfields Cleanup Grant Application  
Narrative Information Sheet

Dear Evaluation Committee,

The City of Chicago is pleased to submit the enclosed Narrative Information Sheet as part of our FY20 Brownfields Cleanup Grant application for funds to remediate trichloroethylene contamination at 1807-1815 N. Kimball Avenue (the Site).

Thank you for your consideration of this grant application and we look forward to working with the EPA to clean up this brownfield site for the Logan Square and Humboldt Park communities. This grant will significantly advance redevelopment of the Site as a public access park to the Bloomingdale Trail, the centerpiece of a rails-to-trails park and trail system called The 606.

Please contact Abby Mazza of my staff at 312.744.3161 if you have further questions.

Sincerely,

David J. Reynolds, P.E., LEED AP  
Commissioner

Attachment: Letter from the Illinois Environmental Protection Agency



DEPARTMENT OF FLEET AND FACILITY MANAGEMENT  
CITY OF CHICAGO

**Narrative Information Sheet**

1. Applicant Identification: City of Chicago, 30 North LaSalle, 3rd Floor, Chicago, IL 60602
2. Funding Requested:
  - a. Grant type: Single Site Cleanup
  - b. Federal Funds Requested:
    - i. \$500,000
    - ii. Cost Share Waiver: No
  - c. Contamination: Hazardous Substances
3. Location: City of Chicago, Cook County, Illinois
4. Property Information: 1807-1815 N. Kimball Avenue, Chicago, Illinois, 60647
5. Contacts
  - a. Project Director  
Abby Mazza, P.E., Environmental Engineer III  
Phone: (312) 744-3161, Fax: (312) 744-6451  
E-mail: [abby.mazza@cityofchicago.org](mailto:abby.mazza@cityofchicago.org)  
30 N. LaSalle Street, 3<sup>rd</sup> Floor, Chicago, Illinois 60602
  - b. Chief Executive/Highest Ranking Official  
Lori Lightfoot, Mayor  
Phone: (312) 744-3300, Fax: (312) 744-2324  
E-mail: [Lori.Lightfoot@cityofchicago.org](mailto:Lori.Lightfoot@cityofchicago.org)  
121 N. LaSalle Street, 5<sup>th</sup> Floor, Chicago, Illinois 60602
6. Population: 2,705,944<sup>1</sup>
7. Other Factors Checklist: None of the 'Other Factors' are applicable to this project.
8. Letter from the State or Tribal Environmental Authority: See attached.

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<sup>1</sup> Data from the United States Census Bureau 2018 Population Estimates at:  
<https://www.census.gov/quickfacts/fact/table/chicagocityillinois,US/PST045218>

## **USEPA Brownfields Cleanup Grant Proposal Narrative:**

### **1807-15 North Kimball Avenue in Chicago, Illinois**

#### **1. PROJECT AREA DESCRIPTION AND PLANS FOR REVITALIZATION**

***1.a.i.:*** The brownfield property that is the subject of this cleanup grant is located at 1807-15 North Kimball Avenue in Chicago, Illinois (herein referred to as “the Site”). The transformation of the Site from a vacant, contaminated brownfield into a multi-benefit public greenspace will have the most immediate impact on communities in the Logan Square and Humboldt Park neighborhoods (Target Area).

The communities in the Target Area have a history of industry and dense population resulting in limited availability of land. Following the Great Fire of 1871, as well as the arrival of railways in the 1880s and 1890s, the Target Area experienced rapid growth including waves of European immigration. By 1960, however, much of the European-descended population had moved away because of deteriorating homes and construction. After the Logan Square Neighborhood Association formed and young professionals began buying and renovating homes, the Target Area had become the site of a burgeoning Hispanic and Latino community. By 1990, Hispanic and Latino residents comprised approximately 67% of the Logan Square’s population, and by 2000, they comprised approximately 48% of Humboldt Park’s population.

During the 1900s, the Target Area was occupied by manufacturing and industry including bicycle, furniture, confection, and instrument makers. An elevated rail line served and ran through the Target Area until the mid-1990s when train service ceased and the tracks were reclaimed by nature. As communities around the former tracks shifted to residential, the former Bloomington tracks were converted into an elevated greenway known as the Bloomingdale Trail. The Bloomingdale Trail forms the backbone of a park and trail network called The 606, a successful park and trail network with over a million users each year. The 606 helps make bicycle travel a safe, attractive transportation alternative to travel by car, helping to reduce traffic congestion and improve air quality.

The Site is adjacent to 606 and has an existing ramp that provides direct access to the trail. The industrial legacy and dense population of the Target Area has left very little land available. Community members in the Target Area have expressed concerns related to a lack of open spaces, access to transit, difficulty finding housing (particularly affordable housing), and challenges in attracting new businesses. This project is an opportunity to transform an underutilized vacant, contaminated brownfield site with existing access to transportation infrastructure into a multi-benefit public space and community asset associated with The 606.

***1.a.ii.:*** The Site encompasses about 0.4 acres. It is vacant and covered in concrete or grass/soil. The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) indicated the Site is in an area of minimal flood hazard [FEMA “Zone X”]. Soil and groundwater investigations have found concentrations of volatile and semi-volatile organic compounds and metals exceeding applicable state cleanup criteria. Trichloroethene (TCE) concentrations in soil beneath the eastern portion of the Site exceed the soil saturation ( $C_{sat}$ ) limit and under Illinois law is deemed a “source area” and must therefore be actively remediated, not just addressed with an engineered barrier. The Site’s contamination is likely due to releases from the long history of industrial and manufacturing uses that occurred both onsite and immediately adjacent since the late 1800s. These uses include the following: a lumberyard; metal, historic paint, lumber, machine

shop, automobile, and other warehouse operations associated with a laundry machine and fluorescent light fixture manufacturing companies; urban fill brought onto the Site; and two heating oil USTs (23,000-gallon and 25,000-gallon associated with the eastern adjacent property).

***1.b.i.:*** The cleanup to be funded under this grant is the critical first step to enabling the Site to be reused as a public greenspace and access to transportation infrastructure. The Site's reuse as public greenspace aligns with the following strategies outlined in the Neighborhood Plan for this area, the 2005 Logan Square Neighborhood Association Quality of Life Plan ("Logan Square: A Plan to Stay, a Place to Grow"):

- Expanding and improving parks and recreational programs, and create new community spaces (Strategy 2);
- Improving the health, safety, and wellbeing of residents and families (Strategy 6);
- Building community leadership and enabling all residents, young and old, citizens and non-citizens, to participate effectively in decisions affecting their lives (Strategy 8).

With only slightly more than 0.6 acres of public park space per every thousand residents, the development of parks and gardens on vacant, brownfield parcels along the Bloomingdale Trail and The 606 are specifically noted as essential components of achieving Strategy 2. This grant project will aid in achieving this goal.

The neighborhood's development strategies echo the guiding goals in the 2004 Logan Square Open Space Plan, which identified the Site as a potential access point to the proposed Bloomingdale Trail. The Bloomingdale Trail and Park Framework Plan (2012) further developed conceptual plans for the Site as a major entry point to The 606 trail - the western portion of the trail currently has a low park density with the closest existing park to the Site being a ½ mile away. Cleanup of the Site and redevelopment into public park space is also aligned with Chicago's Cityspace Plan, which represents a comprehensive effort to create and preserve open space, including the significant need for park space. The cleanup activities funded by the grant will contribute to this city-wide vision to add parkland to reach the desired two acres per thousand residents.

***1.b.ii.:*** The activities performed under award of this grant are critical steps in advancing the Site cleanup for reuse and improving the attractiveness of the area. This, in turn, benefits the community's economic base through site readiness. Despite its appearance and degree of contamination, the Site already has an enhanced value due to its proximity to The 606. The ultimate goal is to redevelop the Site as a public park - with 80,000 residents living within a 10-minute walk of The 606<sup>1</sup>, a new park on the Site is expected to be heavily used and will also potentially be an access point to The 606. Both Logan Square and Humboldt Park have been traditionally underserved communities, especially in terms of open public spaces. Eliminating hazards on the Site and improving it for public use will be an important factor for community planning efforts to enhance health, create new recreational space, and improve social equity. According to the EPA, most of Logan Square is made up of communities where 50-80% of people are from low income and minority groups. Almost half of Humboldt Park is made up of communities where 95-100% of people are from low income and minority groups. These areas are part of the federal Opportunity Zone program for the state of Illinois which aims to offer tax incentives to encourage investment in low income communities. The other half of Humboldt Park

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<sup>1</sup> <https://www.chicagotribune.com/news/ct-606-trail-anniversary-met-0531-20160602-story.html>

is made up of communities with 80-94% low income and minority groups. Although most of the Target Area is not included in the Opportunity Zone program, there are still a large percentage of residents below the poverty line.

*1.c.i.:* Receipt of this cleanup grant would serve as a continuation of the City's partnership with EPA on this Site, as it would leverage previous EPA assessment grant funds and move it forward to the cleanup phase. Previous work being leveraged include the 2012 Comprehensive Site Investigation Report (CSIR) completed by Weston, funded under a Targeted Brownfields Assessments (TBA) Grant and the 2013 Terracon Phase I and Phase II Environmental Site Assessments (ESAs), which were funded under the City's 2008 Hazardous and Petroleum Area Wide Assessment Grant.

The City of Chicago has allocated approximately \$220,000 from its Open Space Impact Fee Fund to be applied towards TCE C<sub>sat</sub> remediation of the Site (see Attachment A). Of this amount, \$100,000 will be used to satisfy the required 20% match, and the remaining \$120,000 are leveraged funds committed by the City to fund the portion of the TCE C<sub>sat</sub> remediation not covered by the grant or match. Other site work including later stages of remediation (engineered barrier construction) and public park construction would be eligible for additional funding from the Open Space Impact Fee Fund and the Chicago Park District. In addition, the City has identified and contacted two previous owners who conducted manufacturing operations on the Site to seek contribution from these entities towards its investigation and remediation costs. Discussions are ongoing.

The need for TCE C<sub>sat</sub> remediation is the biggest obstacle to obtaining an NFR letter and redeveloping the Site. Once this critical first remediation step is completed, it will be more likely that additional funding, including from the sources described above, will be committed to the later stages of remediation and redevelopment. The installation of engineered barrier will be completed in conjunction with Park District during the future park construction phase.

*1.c.ii.:* The grant will facilitate cleanup and allow the Site to be developed into a public park and incorporated into The 606's park and trail system. The Site's urban location allows efficient redevelopment utilizing existing utility and transportation infrastructure, including proximity to the redeveloped railroad corridor that is The 606 and an existing Chicago Transit Authority network of transportation options, including bus lines and the nearby Blue Line of the "L".

## **2. COMMUNITY NEED AND COMMUNITY ENGAGEMENT**

*2.a.i.:* The population of the Milwaukee Avenue District, which our target area is located in, has fallen 22% over the past 50 years, roughly equal to Chicago overall.<sup>2</sup> While still a crowded area, the shrinking population, low income, and high unemployment rate in the area, especially in Humboldt Park, have left the community struggling to cover community necessities such as adding greenspaces. Resources are not available to facilitate the necessary environmental remediation to help revitalize the community. In particular, the Humboldt Park portion of the Target Area is made up of communities where 95-100% of residents are minority groups and 31% are below the poverty rate.

*2.a.ii.(1):* The Logan Square and Humboldt Park neighborhoods are both comprised of high percentages of sensitive populations, as shown in Table 1, who are more susceptible to the

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<sup>2</sup> [https://www.chicago.gov/content/dam/city/depts/dcd/cnn/GREATERMILWAUKEE\\_CONTEXT.pdf](https://www.chicago.gov/content/dam/city/depts/dcd/cnn/GREATERMILWAUKEE_CONTEXT.pdf)

negative effects of brownfields sites. While the Logan Square population remains slightly below the poverty and unemployment rates for the City of Chicago as a whole, the community still suffers from a severe lack of open spaces and public parks. Humboldt Park is part of the target area that experiences low income, poverty, and unemployment above that of the City average, and would greatly benefit from access to affordable housing, jobs, health services, and other important resources.

**Table 1. Logan Square, Humboldt Park, and City of Chicago Sensitive Populations**

	<b>Logan Square<sup>1</sup></b>	<b>Humboldt Park<sup>1</sup></b>	<b>City of Chicago</b>
<b>Population</b>	74,606	56,248	2,705,988 <sup>2</sup>
<b>% Minority</b>	93.1%	94.2%	59.4% <sup>2</sup>
<b>% Age 0 – 15</b>	17.5%	25.1%	-
<b>% Age 65 +</b>	5.7%	8.2%	
<b>Poverty Rate</b>	14.5%	31.4%	17.4% <sup>1</sup>
<b>Unemployment</b>	5.2%	14.7%	8.3% <sup>1</sup>
1 Data from the Chicago Health Atlas 2019 at <a href="https://www.chicagohealthatlas.org/">https://www.chicagohealthatlas.org/</a> 2 Data from the 2018 United States Census Bureau at <a href="https://data.census.gov/cedsci/table?q=chicago&amp;hidePreview=false&amp;table=DP05&amp;tid=ACSDP1Y2018.DP05&amp;g=1600000US1714000&amp;vintage=2018&amp;cid=DP05_0001E&amp;layer=place&amp;lastDisplayedRow=15">https://data.census.gov/cedsci/table?q=chicago&amp;hidePreview=false&amp;table=DP05&amp;tid=ACSDP1Y2018.DP05&amp;g=1600000US1714000&amp;vintage=2018&amp;cid=DP05_0001E&amp;layer=place&amp;lastDisplayedRow=15</a>			

A community-driven survey conducted in Humboldt Park (“Sinai Community Health Survey 2.0”) indicated that low income residents in Humboldt Park have reported a lack of food security due to the inability to afford public transportation, such as buses and trains. Both Logan Square and Humboldt Park experience higher than average childhood obesity rates. The childhood obesity rate for Logan Square and Humboldt Park are 27.4% and 27.7%, respectively. The obesity and overweight prevalence among Chicago Public Schools in Logan Square and Humboldt Park are 40 - 46% and 47 - 53%, respectively<sup>3</sup>. The prevalence of brownfield sites, including the Site, and the lack of accessible parks and open spaces, exacerbates health concerns such as obesity. Remediating the TCE will remove a major obstacle to the Site’s redevelopment into a public park space. This additional park space will provide an opportunity for physical activity that can especially benefit the children (ages 0 to 15) who make up large percentages of the populations of each neighborhood.

**2.a.ii.(2): Table 2. Disease Rates in Logan Square, Humboldt Park, and Chicago**

	<b>Logan Square<sup>1</sup></b>	<b>Humboldt Park<sup>1</sup></b>	<b>City of Chicago<sup>1</sup></b>
<b>Cancer Incidence (per 100,000)</b>	428.4	477.5	475.7
<b>Asthma Rate</b>	9.8%	16.8%	9.1%
1 Data from the Chicago Health Atlas at <a href="https://www.chicagohealthatlas.org/">https://www.chicagohealthatlas.org/</a>			

Several cumulative public health issues, such as cancer and asthma, disproportionately affect residents of the target area, especially the Humboldt Park neighborhood (See Table 2 above). A Chicago Department of Public Health survey (“Healthy Chicago Survey”) indicated that 9.8% of the Logan Square and 16.8% of Humboldt Park residents suffer from asthma, compared to the

<sup>3</sup> <https://www.chicago.gov/content/dam/city/depts/cdph/CDPH/OverweightObesityReportFeb272013.pdf>

City of Chicago average of 9.1%. The same survey indicated that the Humboldt Park cancer incidence rate is above the City average. Additionally, a Presence Health Community Health and Needs Assessment reported that Humboldt Park has an unusually high rate of cancer in comparison to other community areas within the City.

Organic chemicals, including TCE and vinyl chloride, are present at the Site at concentrations that exceed remediation objectives established by the Illinois Tiered Approach to Corrective Action Objectives (TACO) program. Given the harmful nature of these contaminants, if local residents were to experience long-term sustained exposure to them, through direct contact and/or inhalation, then they could be put at increased risk for disease and adverse health conditions such as respiratory problems, nerve damage, cancer, and/or asthma. While these contaminants could pose a potential threat to the whole community, they are an especially significant threat to sensitive populations that are at higher risk for disease and adverse health conditions, including low-income and minority populations, as well as children and seniors. The TCE remediation planned under the Grant would treat the highest concentrations of TCE and other organic chemicals at the Site, thereby addressing a contamination “source area” and reducing the potential for long-term public exposure to the contamination.

**2.a.ii.(3):** Due to the demographic makeup of the target communities, as shown in Table 1, low-income minorities are disproportionately affected by the harmful effects of brownfields sites. According to the Chicago Health Atlas, Humboldt Park is considered to be an area with high economic hardship, with 32.7% child poverty, 23.2% household poverty, 24.1% individual poverty and 27.6% on food stamps - all of these values are above the City of Chicago average. Vacant underutilized properties such as the Site can hinder economic growth and redevelopment in these communities. Cleanup of the TCE contamination is critical to bringing the Site back to productive use as a public park space for the target communities.

**2.b.i.: Table 3**

<b>Partner Name</b>	<b>Point of Contact</b>	<b>Specific Role</b>
Friends of the Bloomingdale Trail (FOTBT)	Ben Helphand <a href="mailto:helphand@gmail.com">helphand@gmail.com</a> 773-677-7970	FOTBT began in 2003 as a group of neighbors interested in transforming the Bloomingdale Line. They played a critical role in realizing the Line’s conversion to and construction of The 606 trail and park system. They are also the official park advisory council for the Bloomingdale Trail. FOTBT’s role for this project is in line with one of their core missions of sponsoring and promoting open communication regarding the Bloomingdale Trail and The 606. They have an active following with a robust outreach system already in place and will be able to provide and help solicit direct input on both the cleanup and redevelopment of the Site.
Chicago Park District (CPD)	Heather Gleason <a href="mailto:heather.gleason@chicagoparkdistrict.com">heather.gleason@chicagoparkdistrict.com</a> 312-742-4685	As the end user of the Site and manager of The 606, CPD will be kept informed of the remediation progress and provide input on future site design plans so they can be incorporated into both the grant and future cleanup activities.

**2.b.ii.:** The community will be engaged through public meetings, neighborhood outreach, digital updates on 2FM’s and project partner’s websites, and social media. The City will continue to

work with the project partners on community outreach, as they each have a large active following and different ways to reach audiences. Community engagement will occur at least quarterly and at critical milestones including prior to finalizing the remediation design plans, before cleanup begins, and after the cleanup has completed. Public input will be used to ensure the remediation and redevelopment aligns with community goals and the redevelopment design plans and improves access to greenspace and the interconnectedness of the neighborhood.

**3. TASK DESCRIPTIONS, COST ESTIMATES, AND MEASURING PROGRESS**

**3.a.:** The proposed remedial actions under the Grant will reduce TCE concentrations below  $C_{sat}$ , removing the “source material” that is the primary environmental obstacle to Site redevelopment. Later cleanup actions to address remaining remediation objectives exceedences will likely include engineered barriers and institutional controls and will be completed under separate funding prior to or concurrent with redevelopment as a park.

Specifically, the following cleanup activities are proposed:

- Reduction of TCE to below the  $C_{sat}$  limit in approximately 850 cubic yards (CY) of soil in the “TCE-impacted zone” located between 8 and 20 feet below the ground surface (bgs) by applying In-Situ Chemical Oxidation (ISCO) via soil mixing.
- Confirmation soil sampling and laboratory analysis to confirm the remaining levels of TCE are below the  $C_{sat}$  limit.

No direct groundwater remedy other than remediation of source soils to  $C_{sat}$  concentrations is anticipated due to the City of Chicago Municipal Code 11-8-390 which prohibits the installation of new potable water supply wells. Onsite indoor air vapor intrusion is not a risk based on the future use of the Site as a greenspace park without buildings. Potential offsite impacts will continue to be evaluated and, if needed, will be addressed under separate funding.

**3.b.:** The grant project will comprise of the following tasks, activities and outputs shown in Table 4:

<b>Task 1 - Grant Management</b>
<i>Implementation</i>
<ul style="list-style-type: none"> <li>• EPA-Funded (\$0): All grant management will be performed using 2FM’s own resources.</li> <li>• Non EPA-Funded (\$0): Grant and project management will be performed by 2FM (with assistance from other City departments as needed) using its own in-house resources and includes administering the brownfield grant and preparing and submitting performance and financial reports, procuring and managing the environmental consultant and cleanup contractor, and coordinating the environmental aspects of the future site redevelopment design (to ensure project timing and budget success).</li> </ul>
<i>Schedule</i>
<ul style="list-style-type: none"> <li>• Grant Management will extend the duration of the three years. See details in Table 5.</li> </ul>
<i>Task/Activity Lead</i>
<ul style="list-style-type: none"> <li>• Abby Mazza, City of Chicago</li> </ul>
<i>Key Outputs</i>
<ul style="list-style-type: none"> <li>• Performance and financial reporting and grant administration</li> <li>• Oversight of brownfield cleanup and related activities.</li> </ul>
<b>Task 2 - TCE Cleanup (professional services)</b>
<i>Implementation</i>
<ul style="list-style-type: none"> <li>• EPA-Funded (\$87,000): The selected Qualified Environmental Professional will complete</li> </ul>



<p>professional services including preparing applicable regulatory reporting and remediation design documents, and conducting field oversight. At the start of the project, a Quality Assurance Project Plan (QAPP) and Health and Safety Plan (HASP) will be prepared and submitted to EPA for review and acceptance. Applicable regulatory reporting will include enrollment into the IEPA’s Site Remediation Program (SRP), updating the CSIR, and development and submittal of a Remediation Objectives Report (ROR) and Remedial Action Plan (RAP) to the IEPA for approval. Costs for these documents and activities include the following: \$44,000 for QAPP, HASP, and remediation design documents; \$13,000 for SRP reporting; and \$30,000 for field oversight.</p> <ul style="list-style-type: none"> <li>• Non EPA-Funded (\$0): All TCE Cleanup professional services are described above and EPA-funded</li> </ul>
<p><i>Schedule</i></p> <ul style="list-style-type: none"> <li>• Q2 2019-Q1 2020. See details in Table 5.</li> </ul>
<p><i>Task/Activity Lead</i></p> <ul style="list-style-type: none"> <li>• Qualified Environmental Professional</li> </ul>
<p><i>Key Outputs</i></p> <ul style="list-style-type: none"> <li>• A QAPP and HASP approved and accepted by EPA; and a CSIR/ROR/RAP will be completed with recommended remedial actions and approved by IEPA via the SRP.</li> </ul>
<p><b>TASK 3 - TCE Cleanup (Reduction of TCE)</b></p>
<p><i>Implementation</i></p> <ul style="list-style-type: none"> <li>• EPA-Funded (\$408,000): The selected cleanup contractor will complete the recommended remedial actions which are expected to include In-Situ Chemical Oxidation (applied by soil mixing) to reduce TCE to below the C<sub>sat</sub> limit in the eastern portion of the Site.</li> <li>• Non EPA-Funded (\$100,000): Air monitoring, installation of an excavation support system and dewatering are included as part of the ISCO treatment cost.</li> </ul>
<p><i>Schedule</i></p> <ul style="list-style-type: none"> <li>• Q2 2020 - Q3 2020. See details in Table 5.</li> </ul>
<p><i>Task/Activity Lead</i></p> <ul style="list-style-type: none"> <li>• Cleanup Contractor</li> </ul>
<p><i>Key Outputs</i></p> <ul style="list-style-type: none"> <li>• Successful treatment of soil below TCE C<sub>sat</sub> limit, as confirmed by soil sampling results.</li> </ul>
<p><b>TASK 4 - Community Engagement</b></p>
<p><i>Implementation</i></p> <ul style="list-style-type: none"> <li>• EPA-Funded (\$5,000): 2FM’s contractors will provide assistance preparing materials for and attending community engagement events. 45 hours at average rate of \$111/hr.</li> <li>• Non EPA-Funded (\$0): Community engagement will be provided by 2FM’s in-house resources throughout the project to develop and inform public stakeholder groups about the cleanup and how it will impact redevelopment options.</li> </ul>
<p><i>Schedule</i></p> <ul style="list-style-type: none"> <li>• Community Engagement will extend the duration of the three years. See details in Table 5.</li> </ul>
<p><i>Task/Activity Lead</i></p> <ul style="list-style-type: none"> <li>• Abby Mazza, City of Chicago</li> </ul>
<p><i>Key Outputs:</i></p> <ul style="list-style-type: none"> <li>• Community meetings will be held. Information will also be shared electronically (websites, e-mail, social media) and during community events.</li> </ul>

A general timeline of activities is included below Table 5.

<i>Activities, Key Tasks, Outputs, and Responsible Organizations</i>	<i>Year 1</i>			<i>Year 2</i>			<i>Year 3</i>		
<b>TASK 1: Project Management</b>									
- 2FM prepares/ executes RFP for consultant & contractor									
- 2FM prepares/ executes contracts with consultant & contractor									
- Consultant/partner initial meeting (review goals, timeline, roles)									
- 2FM manages grant and contractors throughout grant term									
<b>TASK 2: Environmental Cleanup (professional services)</b>									
-2FM/Consultant prepares QAPP/HASP									
- Consultant enrolls Site in SRP and prepares CSIR/ROR/RAP									
- IEPA reviews and approves CSIR/ROR/RAP									
- 2FM/Consultant completes project designs for Site									
<b>TASK 3: Environmental Cleanup (Reduction of TCE)</b>									
- Contractors complete ISCO soil mixing									
<b>TASK 4: Community Engagement</b>									
- 2FM regularly engages community via electronic updates									
- 2FM meets with community prior to critical milestones									
- 2FM incorporates community feedback from meetings									

3.c.: Section 3.b. summarized the breakdown of costs used to develop the project budget.

<b>Budget Categories</b>		<b>Project Tasks (\$)</b>				<b>Total</b>
		<b>Task 1: Grant Management (City Staff)</b>	<b>Task 2: TCE Cleanup (Professional Services)</b>	<b>Task 3: TCE Cleanup (Construction Contractor)</b>	<b>Task 4: Community Outreach (Professional Services)</b>	
<b>Direct Costs</b>	Personnel	\$ -	\$ -	\$ -	\$ -	\$ -
	Fringe Benefits	\$ -	\$ -	\$ -	\$ -	\$ -
	Travel	\$ -	\$ -	\$ -	\$ -	\$ -
	Equipment	\$ -	\$ -	\$ -	\$ -	\$ -
	Supplies	\$ -	\$ -	\$ -	\$ -	\$ -
	Contractual	\$ -	\$ 87,000	\$ 508,000	\$ 5,000	\$ -
	Other (include sub)	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Direct Costs</b>		\$ -	\$ 87,000	\$ 508,000	\$ 5,000	\$ 600,000
<b>Total Indirect Costs</b>		\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Federal Funding</b>		\$ -	\$ 87,000	\$ 408,000	\$ 5,000	\$ 500,000
<b>Cost share (20% of requested federal funds)</b>		\$ -	\$ -	\$ 100,000	\$ -	\$ 100,000
<b>Total Budget (Total Direct Costs + Indirect Costs + Cost Share)</b>		\$ -	\$ 87,000	\$ 508,000	\$ 5,000	\$ 600,000

**3.d. Measuring Environmental Results:** The Site will be enrolled in the voluntary Illinois SRP which requires submittal and IEPA approval of the following reports prior to completing remediation: CSIR, ROR, and RAP. The results of Tasks 2 and 3 will be measured by the completion of TCE source area remediation to below the  $C_{sat}$  limit as demonstrated by laboratory analysis of soil confirmation samples, and the completion, submittal, and IEPA approval of the CSIR/ROR/RAP. IEPA approval of the RAP, in particular, will memorialize IEPA's agreement that the proposed remedy addresses applicable rules and regulations and protects human health and environment. The measurable results from Task 1 will include the successful procurement and management of a qualified environmental professional and cleanup contractor in a manner that completes the planned remediation and documentation in accordance with the Grant schedule. Task 1 will also be measured by successful completion of quarterly and annual reporting. Task 4 results will be evaluated by documenting events and postings where project information is shared with the public.

Tracking and evaluating progress will be done by 2FM project management staff who routinely enroll and manage remediation of sites in the Illinois SRP, and who can draw on departmental staff with experience executing EPA Brownfields Grants.

#### **4. PROGRAMMATIC CAPABILITY AND PAST PERFORMANCE**

**4.a.i.:** Ms. Abby Mazza from 2FM will oversee all aspects of the grant requirements. Ms. Mazza is a licensed professional engineer with over 16 years of experience in environmental consulting focusing on brownfield redevelopment. She has managed the planning, design, and construction phases for multiple complex sites including those impacted with chlorinated solvents, radiological contaminants and hazardous lead. She also has direct experience managing a remediation project funded by a federal grant, works regularly with IEPA, and has received numerous NFRs through the Illinois SRP. Project managers for the City's past Brownfields Assessment Grants will be available to assist Ms. Mazza with the grant requirements such as quarterly reports and entering site data into the Assessment, Cleanup and Redevelopment Exchange System (ACRES). The Office of Budget Management provides the financial management services necessary such as the oversight of project spending to ensure compliance with applicable regulations. The Department of Planning and Development (DPD) holds the property in their land inventory. DPD manages the Site, is involved in community engagement and determines the appropriate end use. DPD also manages many of the economic tools that the City uses to encourage brownfield redevelopment, such as Tax Increment Financing (TIF) districts, Empowerment Zone funds, low-interest loans and property tax reductions. The Department of Law provides real estate transaction support, and drafts and negotiates development agreements.

**4.a.ii.:** 2FM will act as project manager and provide technical professional oversight for all cleanup activities, complete grant reporting and communicate with the EPA grant manager. 2FM will hire, following the competitive procurement provisions of 2 CFR §§ 200.317 through 200.326, a pre-qualified environmental engineering consultant to prepare SRP technical reports, construction drawings and specifications as well as provide field oversight. For the construction activities, 2FM will either use an existing job order contract or work with the City's Department of Procurement Services to put the project out to bid, either of which will follow the competitive procurement provisions of 2 CFR §§ 200.317 through 200.326.

**4.b.i.:** The City of Chicago has had overwhelming success with its EPA brownfields redevelopment efforts, initiated in 1990 with a \$2 million investment of General Obligation

Bonds to create a Brownfields Pilot. The pilot project was a resounding success, which was leveraged into a larger initiative through a combination of Section 108 loan guarantees from HUD, Showcase Community funds from EPA, and other sources. Since then, the City's brownfields initiatives have tackled the environmental assessment and remediation of hundreds of sites acquired through negotiated purchase, lien foreclosure, or tax reactivation on delinquent property. One of the major accomplishments is the redevelopment of a West Pullman Industrial Redevelopment Area site into the Ray and Joan Kroc Corps Community Center. This redevelopment was awarded the 2011 Phoenix Awards for Region 5, the People's Choice Award, and also the Grand Prize.

The three most recent include the following: a 2006 Petroleum Area Wide Assessment Grant for \$200,000; a 2008 Hazardous Substances and Petroleum Area Wide Assessment Grant for \$400,000; and a 2016 Hazardous Substances and Petroleum Area Wide Assessment Grant for \$400,000. A one year, no-cost time extension was requested and received for the 2008 grant. The 2016 grant is still active, and recently received a one year no-cost extension. All tasks described in the work plans of all three grants were completed, quarterly reports were submitted, and all sites were accurately entered into ACRES. All the grant funds for the two closed grants have been expended.

**2006 Petroleum Area Wide Assessment Grant:** Accomplishments under this grant include technical training for staff and completion of 10 Phase I and nine Phase II ESAs, report preparation and programmatic fees for six sites under the Illinois SRP. Several of the properties have leveraged additional City funding for either Phase II activities or report preparation under the Illinois SRP. Of the six sites completing cleanup planning activities with the grant, four were developed as green or park space, and City funding was leveraged for additional investigation and final remediation and development. All grant funding was expended.

**2008 Hazardous and Petroleum Area Wide Assessment Grant:** Accomplishments under this grant include assessment of eight properties, including the Kimball Avenue Site. Several of the properties have leveraged additional City funding for either Phase II activities or report preparation under the SRP. Of the eight sites, two were developed as green or park space, and City funding was leveraged for additional investigation and final remediation and development. All grant funding was expended.

**2016 Hazardous and Petroleum Area Wide Assessment Grant:** Accomplishments under this grant include assessment of twelve sites to date, including four miles of a rails-to-trails path, a site to be used as a park with access to the Chicago River, and second property to be used as a park with access to the bike trail, and eight sites acquired by the City through tax reactivation. All grant funding is expected to be expended by the end of the grant period. The Grant period for this assessment grant is October 2, 2016 to September 30, 2020.

**Attachment A**

**Documentation for Leveraged Resources**

DRAFT

**ATTACHMENT:  
TO BE INCLUDED IN FINAL APPLICATION**

**DRAFT**

**Attachment B**

**Threshold Criteria Response**

DRAFT

**USEPA Brownfields Cleanup Grant Proposal**  
**1807-1815 North Kimball Avenue in Chicago, Illinois**  
**Threshold Criteria Response**

**1. Applicant Eligibility**

The City of Chicago is a General Purpose Unit of Local Government.

**2. Previously Awarded Cleanup Grants.**

This Site has not previously received any EPA Cleanup Grant funds.

**3. Site Ownership**

The City of Chicago currently owns the Site, which was acquired through foreclosure in 2005 and consists of the following three Property Identification Numbers (PINs):

1. 13-35-409-037
2. 13-35-409-039
3. 13-35-409-042

**4. Basic Site Information**

Site Name: 1807-1815 N. Kimball Avenue

Site Address: 1807-1815 N. Kimball Avenue, Chicago, Illinois 60647

Current Site Owner: City of Chicago

**5. Status and History of Contamination at the Site**

Based on a review of historical Sanborn maps, the first known use of the Site was as a lumberyard for the Elsmere Lumber Co. in 1896, which extended east to the adjacent property. By 1921, the Site was vacant and railroad spurs from the Chicago, Milwaukee, and St. Paul railroad appeared adjacent to the south and the eastern adjacent property had been redeveloped into the American Laundry Machinery Co. (ALM). Historical operations at ALM included woodworking, testing, painting, crating, shipping, lumber storage, and casting storage. Machine shop operations also were identified.

By 1950, ALM had expanded westward onto the Site. Operations on the Site included warehousing, painting and an automobile garage. By 1975, both the Site and eastern adjacent property were depicted as Compco Corp, a fluorescent light fixture manufacturing facility, instead of as ALM. By 2002, both the Site and the eastern adjacent property were vacant. The Site was still vacant when the City of Chicago acquired it in 2005. It has remained vacant, with the exception of its use as a temporary staging area during construction of The 606, an adjacent, elevated rails-to-trails parks and trail system along the Bloomingdale Trail.

Multiple sampling events have been conducted at the Site after the City acquired it. These investigations confirmed the Site is contaminated by hazardous substances, presumed to be from both onsite and as well as from the eastern adjacent property's historical industrial operations.

The most significant contaminants of concern (COCs) are volatile organic compounds (VOCs), including 1,1,2-trichloroethane, 1,1-dichloroethene, cis-1,2- dichloroethene, tetrachloroethene, trans-1,2-dichloroethene, trichloroethene (TCE), and vinyl chloride. These COCs have been encountered in the soil, soil gas and groundwater across the Site at concentrations exceeding Illinois cleanup objectives and extending down to approximately 20 feet below ground surface.



Along the eastern 50 to 75 feet of the Site, TCE soil concentrations are at their highest and exceed the soil saturation concentration ( $C_{sat}$ ) at several soil boring sample locations. Soil across the majority of the Site is also contaminated to a lesser extent with metals and polynuclear aromatic hydrocarbons (PNAs), primarily limited to the top six feet.

## **6. Brownfields Site Definition**

The Site meets the definition of a brownfield under CERCLA § 101(39). In addition, the site is a) not listed or proposed for listing on the National Priorities List; b) not subject to unilateral administrative orders, court orders, administrative orders on consent, or judicial consent decrees issued to or entered into by parties under CERCLA; and c) not subject to the jurisdiction, custody, or control of the U.S. government.

## **7. Environmental Assessment Required for Cleanup Grant Proposals**

Multiple environmental assessments have been conducted at the Site starting in 2010:

- Phase I Environmental Site Assessment (ESA), April 2010 – This initial site assessment identified several recognized environmental concerns (RECs), primarily associated with the past industrial use of the Site and adjoining property to the east.
- Phase II ESA, September 2010 – Based on the RECs identified in the 2010 Phase I ESA, 26 soil and three groundwater samples from 8 borings were analyzed for VOCs, semi-volatile organic compounds (SVOCs), PNAs, polychlorinated biphenyls (PCBs), pesticides, herbicides, RCRA metals, and/or target analyte list (TAL) inorganics.
- Comprehensive Site Investigation Report (CSIR), July 2012 – The CSIR was prepared under a Targeted Brownfields Assessments (TBA) Grant to delineate contamination identified in the Phase II. A total of 19 soil and three groundwater samples were collected from 10 borings advanced to a maximum depth of 10 feet. Several TCE concentrations exceeded soil saturation.
- Phase I ESA, August 2012 and Phase II ESA, January 2013 – Additional assessments of the Site were conducted as part of the EPA's Hazardous and Petroleum Area Wide Assessment Grant awarded to the City of Chicago. The purpose of the 2013 Phase II ESA was to vertically delineate the extent of the soil impacts as well as collect soil vapor and additional groundwater samples. The investigation included collecting five soil samples down to a maximum depth of 34 feet. In addition, four permanent monitoring wells were installed and groundwater samples collected, as well as six soil vapor samples.
- Focused Sampling, November 2018 – In preparation for remediation design, additional targeted sampling was conducted to delineate the extent of TCE soil saturation exceedances, collect additional soil vapor and groundwater samples, and collect additional data from IEPA's target compound list in support of a comprehensive residential No Further Remediation (NFR) Letter. In addition, a bench test sample was collected to confirm feasibility of ISCO treatment and a Fraction of Organic Carbon (foc) sample was also collected in order to develop a site-specific  $C_{sat}$  limit.

## **8. Enforcement or Other Actions**

The City is not aware of any enforcement actions or liens against the Site. The City has identified and contacted two previous owners who conducted manufacturing operations on the Site to seek contribution from these entities towards its investigation and remediation costs. Discussions are ongoing.

## **9. Sites Requiring a Property-Specific Determination**

The site does not require a Property-Specific Determination.

## **10. Threshold Criteria Related to CERCLA/Petroleum Liability for Hazardous Sites**

The City of Chicago qualifies as exempt from CERCLA liability under Section 10. i. (3), as supported by the following:

- (a) The City of Chicago acquired the Site by tax delinquency foreclosure.
- (b) The City of Chicago acquired the parcels comprising the Site on September 10, 2002 (PIN 1-13-35-409 -042) and May 9, 2005 (PINs 1-13-35-037 and -039).
- (c) All disposal of hazardous substances at the Site occurred before the City of Chicago acquired the property.
- (d) The City of Chicago did not cause or contribute to any release of hazardous substances at the Site.
- (e) The City of Chicago has not, at any time, arranged for the disposal of hazardous substances at the Site or transported hazardous substances to the Site.

## **11. Cleanup Authority and Oversight Structure**

The City's Department of Fleet and Facility Management (2FM) Bureau of Environmental Health and Safety Management (EHS Bureau) will manage the grant and associated cleanup work. 2FM's EHS Bureau has multiple staff experienced in successfully managing grant-funded brownfields investigations and cleanups at City-owned sites. The EHS Bureau will enroll the Site in IEPA's Site Remediation Program in pursuit of a comprehensive residential NFR Letter.

Access to the adjacent properties may be necessary as part of the cleanup response. The City has reached out the applicable adjacent site owners and notified them of the Site's contamination and potential need for access to their property. The City will continue discussions with the owners to obtain formal access as needed.

## **12. Community Notification**

Personnel from 2FM's EHS Bureau will present the City's intent to apply for the grant to the public at the Bloomingdale Trail Park Advisory Council's quarterly meeting. A representative from the City's Department of Planning and Development also attended the meeting. The meeting will be held at the Simons Fieldhouse (1640 N. Drake Ave.) located near the Site on November 20, 2019 at 6 pm. A meeting notice is being published in English the Chicago Sun-Times on November 10 and 17, 2019 and in Spanish in Hoy (a Chicago Tribune publication) on November 15, 2019.

Hard copies of the draft proposal, including the draft Analysis of Brownfield Cleanup Alternatives, were provided at two local library branches and at 2FM's office downtown. An electronic copy was also posted on the City's website.

## **13. Statutory Cost Share**

A cost share amount of \$100,000, which represents the required 20% match, will be provided. The source of the cost share is from the City's Open Space Impact Fee Fund.

**Attachment C**

**Community Notification Documentation**

**Draft ABCA**

**Meeting Notice**

**Public Comments (Included in Final)**

**Response to Comments (Included in Final)**

**Meeting Notes (Included in Final)**

**Meeting Sign-In Sheets (Included in Final)**



**AECOM** Imagine it.  
Delivered.

Prepared for:

City of Chicago  
Dept of Fleet and Facility Management  
Chicago, Illinois

Prepared by:

AECOM  
Chicago, Illinois  
60585513  
November 2019

# Draft Analysis of Brownfield Cleanup Alternatives

1807-1815 North Kimball Avenue  
Chicago, Illinois

DRAFT



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# Draft Analysis of Brownfield Cleanup Alternatives

1807-1815 North Kimball Avenue  
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DRAFT

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Prepared By Shannon Flanagan, PE

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Reviewed By Matthew Hildreth, PG

# Contents

**1.0 Introduction..... 1-1**

**2.0 Background ..... 2-1**

    2.1 Site Location and Description.....2-1

    2.2 Previous Site Uses and Site History .....2-1

    2.3 Site Assessment Findings .....2-2

        2.3.1 Phase I ESAs .....2-2

        2.3.2 Phase II ESAs, CSIR and Additional Investigation.....2-3

    2.4 Observed and Potential Changing Climate Conditions in Site Area .....2-4

    2.5 Project Goal .....2-4

**3.0 Cleanup Goals and Objectives..... 3-1**

    3.1 Cleanup Oversight Responsibility .....3-1

    3.2 Cleanup Standards for Major Contaminants.....3-1

    3.3 Laws & Regulations Applicable to the Cleanup.....3-1

**4.0 Alternatives Considered..... 4-1**

    4.1 Cleanup Alternatives Considered.....4-1

    4.2 Cleanup Alternative Evaluation .....4-1

        4.2.1 Effectiveness.....4-2

        4.2.2 Implementability .....4-2

        4.2.3 Climate Change Resilience .....4-3

        4.2.4 Cost .....4-4

**5.0 Selected Alternative and Proposed Cleanup Plan ..... 5-1**

## List of Appendices

Appendix A Previous Investigation Data (TCE Results)

## List of Tables

Table 4-1 Preliminary Remedial Alternative Evaluation Summary

## List of Figures

Figure 2-1 Project Area Location Map

Figure 2-2 Sample Location and Soil Exceeding TCE  $C_{sat}$  Limit Map

## 1.0 Introduction

This Analysis of Brownfield Cleanup and Alternatives (ABCA) report has been prepared for the City of Chicago Department of Fleet and Facility Management (2FM) regarding the 1807-1815 North Kimball Avenue Site located in Chicago, Illinois (herein referred to as “the Site”). The proposed cleanup under the Brownfield Cleanup Grant will include the reduction of trichloroethylene (TCE) concentrations to below the soil saturation concentration ( $C_{sat}$ ) limit. Later remedial actions to eliminate the soil ingestion and soil inhalation exposure pathways for areas where soil exceeds the Tiered Approach to Corrective Action Objectives (TACO) Tier 1 Soil Remediation Objectives (SROs) will be completed under separate funding prior to or concurrent with redevelopment.

This ABCA report includes the following:

- A summary of the Site background and the future use of the Property;
- A description of the previous environmental investigations and their findings, including the Phase I and Phase II Environmental Site Assessments (ESAs) and the Comprehensive Site Investigation Report (CSIR);
- Analysis of potential remediation alternatives for cleanup of the 1807-1815 North Kimball Avenue Site; and
- Selection of the most appropriate alternative.



## 2.0 Background

### 2.1 Site Location and Description

The Site occupies three parcels (PINs 13-35-409-037, 13-35-409-039, 13-35-409-042) in the northwestern portion of Chicago, Illinois, and is located adjacent to residential properties to the north and to the east, Kimball Avenue to the west and The Bloomingdale Trail to the south. The Bloomingdale Trail is an elevated greenway constructed on a former railroad running east-west on the northwest side of Chicago that forms the main line a park and trail network called The 606. The location of the subject property is depicted on **Figure 2-1**.

The Site encompasses approximately 0.4 acres and is mostly vacant with some portions covered in concrete and some portions covered in grass/soil. The Site's topography is generally flat on the northern and eastern portions, with a sloped embankment connecting the Site to the Bloomingdale Trail (approximately 15 to 16 feet above the Site grade). The elevation of the flat portion of the Site is between 600 and 605 ft above mean sea level (amsl).

The closest surface water body is a small pond in Humboldt Park approximately 0.75 miles southeast of the Site. The north branch of the Chicago River is approximately 2.8 miles east of the Site. The North Branch of the Chicago River flows south into the Chicago Sanitary and Ship Canal, away from Lake Michigan. Lake Michigan is approximately 4.5 miles east of the Site. Lake Michigan is the sole source of the City of Chicago's drinking water.

### 2.2 Previous Site Uses and Site History

The City of Chicago acquired the Site in 2005 through foreclosure. Prior to the City of Chicago's ownership, land use at the site was primarily industrial. The known historic uses of the Site based on historic fire insurance maps are provided below:

- In 1896, the Site was utilized as a lumberyard for the Elsmere Lumber Company (ELC) and contained a single-family dwelling on the northern portion.
- By 1921, the Site was vacant, and a concrete retaining wall existed along the southern Site boundary. Railroad spurs from the Chicago, Milwaukee, and St. Paul railroad were present to the south.
- By 1950, American Laundry Machinery Company (ALMC), which had occupied the eastern adjacent property, expanded to occupy the Site. Historical operations at ALMC included woodworking, testing, painting, crating, shipping, lumber storage, casting storage, and machine shop operations.
- By 1975, the Compco Corporation (Compco) was present in place of ALMC in the vicinity of the Site and the eastern adjacent site. Compco is described on the 1975 Sanborn Map as "Manufacturers of Fluorescent Fixtures."
- By 2003, the Site was vacant. Two small structures were demolished by the City of Chicago, one in 2001, and one in 2002/2003.

The Site was occupied for nearly a century by industrial and manufacturing operations associated with ELC, ALMC, Compco and others that occurred on the Site and the adjoining east and south properties. The property to the west (across North Kimball Avenue) was historically industrial until recent development as a multi-family apartment complex. The properties to the north have historically been single-family residential.

## 2.3 Site Assessment Findings

The following previous environmental investigations have been completed for this Site and its adjacent properties:

- Clean World Engineering, Ltd. (CWE), 2010, Phase I ESA Report, 1807-1815 North Kimball Avenue, Chicago, Illinois, April 2010
- Brecheisen Engineering, Inc. (Brecheisen), 2010, Phase II ESA, 1807-1815 North Kimball Avenue, Chicago, Illinois, September 2010
- Weston Solutions, Inc. (Weston), 2012, Comprehensive Site Investigations Report (CSIR), 1807-1815 North Kimball Avenue, Chicago, Illinois, July 2012
- Terracon Consultants, Inc. (Terracon), 2012, Phase I Environmental Site Assessment (ESA), 1809-1815 North Kimball Avenue, Chicago, Illinois, August 2012
- Terracon, 2013, Phase II Site Investigation Summary, 1809 North Kimball Avenue, Chicago, Illinois, January 2013
- AECOM, 2018, Additional Investigation, 1807-1815 N Kimball Ave, Chicago, Illinois, October 2018

These previous environmental investigations are further described in the following sections.

### 2.3.1 Phase I ESAs

The following recognized environmental conditions (RECs) were identified based on the Phase I ESA Reports, prepared by Northern (2003), CWE (2010), and Terracon (2012):

- Long term historical Site uses that included metals, painting, automobile or other warehousing, lumber storage and warehousing, storage operations and other industrial uses assumed to be associated with historic and adjoining Site operations by ELC, ALMC, Compco and others.
- Records for two heating oil underground storage tanks (USTs) (23,000-gallon and 25,000-gallon) installed on the eastern adjacent property in 1952 were identified, with no documentation on the disposition
- Listings of the eastern adjacent property a Resource Conservation and Recovery Act (RCRA) Small Quantity Generator (SQG) of hazardous waste and a RCRA non-generator
- Light industrial facility (manufactured fluorescent light bulbs and fixtures) adjoining to the east is listed as a former small quantity RCRA generator facility,
- History of long term uses that include lumber storage and warehousing and storage operations,
- Documented soil and groundwater contamination onsite, documented onsite fill material, and
- Potential for USTs located southeast of the site.

Based on the historical Site use and RECs, the primary sources of contamination are likely derived from paint, lumber, and automobile warehouse operations at the Site, urban fill, potential petroleum releases from two heating oil USTs (23,000-gallon and 25,000-gallon) installed on the eastern adjacent Site in 1952, and potential historical releases from the Site and adjacent property formerly occupied by ELC, ALMC, Compco and others.

### 2.3.2 Phase II ESAs, CSIR and Additional Investigation

Subsurface environmental investigations, including the Phase II ESAs and sampling associated with the CSIR and recent, additional investigations were completed for this site and its adjacent properties between November 2002 and October 2018. The 2012 CSIR, completed by Weston, was funded under a Targeted Brownfields Assessments (TBA) Grant and the 2013 Terracon Phase I and Phase II ESAs were funded under the City's 2008 Hazardous and Petroleum Area Wide Assessment Grant.

The scope of work and results of each of these investigations are summarized below:

Investigation	Scope of Work	Results
Brecheisen 2010, <i>Phase II ESA, 1807-1815 N Kimball Ave</i>	Advancement of eight soil borings to depths of 6- to 24-feet Collection of soil samples Installation of three monitoring wells Collection of groundwater samples	Soil analytical results exceed applicable Illinois TACO SROs for SVOCs and Metals Groundwater analytical exceed applicable Class II Groundwater Remediation Objectives (GROs) for VOCs and metals
Weston, 2012, <i>CSIR, 1807-1815 N Kimball Ave</i>	Advancement of ten soil borings to a maximum depth of 20-feet Collection of soil samples including fraction organic carbon analyses Collection of groundwater samples, field parameters and hydraulic conductivity	Soil analytical results exceed applicable Illinois TACO SROs for volatile organic compounds (VOCs) and SVOCs Groundwater analytical exceed applicable Class II GROs for VOCs
Terracon, 2013, <i>Phase II Site Investigation Summary, 1809 N Kimball Ave</i>	Advancement of five soil borings to depths of 15 to 30 feet Collection of soil samples Collection of six soil gas samples Installation of four monitoring wells Collection of groundwater samples	Soil analytical results exceed applicable Illinois TACO SROs for VOCs and SVOCs Soil gas analytical results exceed Tier 1 Remedial Objectives (ROs) for Residential Indoor Inhalation for VOCs Groundwater analytical exceed applicable Class II GROs for VOCs
AECOM, 2018 <i>Additional Investigation, 1807-1815 N Kimball Ave</i>	Advancement of 22 soil borings to a maximum depth of 30 feet Collection of soil samples Collection of four soil gas samples Collection of four groundwater samples Collection of a Total Oxidant Demand sample	Results are preliminary at present, and in draft form. When finalized, they will better define the extent of TCE above the soil saturation limit, better delineate the extent of soil vapor impacts, and inform soil remediation design.

The investigations listed above found that concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and inorganics in soil at the site exceeded applicable Illinois TACO SROs, and that TCE concentrations in some soil on the eastern portion of the Site exceed the  $C_{sat}$  limit. Groundwater results from the site investigations exceeded the applicable Class II Groundwater Remediation Objectives (GROs). Soil gas samples at two locations exceeded Tier 1 Remediation Objectives (ROs) for Indoor Inhalation for residential properties for TCE, and at one location also for Vinyl Chloride.

A summary of the analytical results from prior Site investigations, including the Phase II ESAs, the CSIR sampling event, and the 2018 additional investigation are provided in **Appendix A**. A sample location and  $C_{sat}$  exceedance map is provided as **Figure 2-2**.

## 2.4 Observed and Potential Changing Climate Conditions in Site Area

The NOAA National Centers for Environmental Information State Climate Summary for Illinois (Frankson, R., K. Kunkel, S. Champion, B. Stewart, D. Easterling, B. Hall, and J. R. Angel, 2017: Illinois State Climate Summary. *NOAA Technical Report NESDIS 149-IL*, 4 pp) was reviewed to assess observed and potential climate changes for northern Illinois in order to evaluate how potential adverse impacts from changing weather events might impact the proposed cleanup remedies for the Site.

The NOAA Summary indicates that the area has experienced a temperature increase of 1 degree F since the beginning of the 20<sup>th</sup> century, with the warming concentrated in winter and spring. Illinois has experienced a dramatic increase in extreme precipitation events (over 2 inches of precipitation) since 1995, which has negative impacts on both agriculture and urban areas, where heavy rains falling on impervious surfaces with inadequate infrastructure cause urban flooding. Overall precipitation and extreme precipitation events are projected to increase in northern Illinois in the future, with spring precipitation projected to increase 15 to 20% by 2050 as compared to the late 20<sup>th</sup> Century under a high emissions scenario.

## 2.5 Project Goal

The cleanup activities to be performed under this grant are critical steps in advancing the Site cleanup for reuse. The ultimate goal is to redevelop the Site as a public park that will be connected to the adjacent Bloomingdale Trail, allowing it to serve as an access point to the elevated greenway and multi-use recreational path (The 606).

## 3.0 Cleanup Goals and Objectives

### 3.1 Cleanup Oversight Responsibility

The Site will be enrolled in the voluntary Illinois Site Remediation Program (SRP), which is overseen by the Illinois EPA. The steps in the regulatory process for the Site will be to update and submit the CSIR, prepare a Remediation Objectives Report (ROR) and Remedial Action Plan (RAP), implement remediation, and submit a Remedial Action Completion Report (RACR) to document the cleanup actions. The SRP will provide technical support and review of these reports, and will approve or deny reports based on fulfillment of the requirements of the SRP and the Illinois Tiered Approach to Remedial Action Objectives (TACO) regulations that govern environmental cleanups and risk assessment in the state. Successful remediation will result in receipt of a Comprehensive No Further Remediation (NFR) letter from the Illinois EPA in accordance with 35 IAC Part 740 (the SRP). The proposed cleanup under the Brownfield Cleanup Grant includes the reduction of TCE concentrations to below the  $C_{sat}$  limit, which is a critical step to fulfill the SRP requirements. Installation of final engineered barriers required to receive an NFR letter would be completed during the future park construction phase.

The City of Chicago will contract with a professional environmental consultant to provide technical assistance, design, report preparation, and oversight services during the remediation process. The consultant will provide the services of professional scientists and engineers licensed in Illinois to prepare, review, and certify technical reports for submittal to the Illinois EPA.

### 3.2 Cleanup Standards for Major Contaminants

Sites enrolled in the Illinois SRP must evaluate and address exposure pathways for contaminants that exceed applicable cleanup standards in accordance with the rules and regulation found in 35 IAC Parts 740 and 742 (The SRP and TACO). The City anticipates that the TACO ROs for residential use and Class II groundwater will be used as the first-tier cleanup standards. The City also anticipates the development of site-specific, risk-based ROs for specific contaminants of concern in accordance with the SRP and TACO regulations.

### 3.3 Laws & Regulations Applicable to the Cleanup

Laws and regulations that are applicable to this cleanup include the Federal Small Business Liability Relief and Brownfields Revitalization Act, the Federal Davis-Bacon Act, state environmental law, and local regulations. Federal, state, and local laws regarding procurement of contractors to conduct the cleanup will be followed.

In addition, all appropriate permits (e.g., notify before you dig, soil transport/disposal manifests) will be obtained prior to the work commencing.

## 4.0 Alternatives Considered

### 4.1 Cleanup Alternatives Considered

The proposed Cleanup under the Brownfield Cleanup Grant will include implementation of a remedial technology to reduce TCE concentrations identified in the eastern portion of the site to below the  $C_{sat}$  limit. Additional actions to fulfill the SRP requirements and receive an NFR letter will include the installation of an engineered barrier to eliminate soil ingestion and soil inhalation exposure pathways of soil with concentrations of VOCs, SVOCs and inorganics that exceed the applicable TACO Tier 1 SROs. Engineered barrier installation would occur during the future park construction phase.

As part of the NFR letter, institutional controls (ICs) will be implemented in the form of a deed restriction or environmental restrictive covenant to ensure the long-term effectiveness of the soil remedy by protecting the engineered barrier and ensuring health and safety of future construction workers. The ICs would require appropriate health and safety precautions (e.g. site-specific Health and Safety Plan (HASP) and a construction worker caution zone) prior to any future remediation / construction activities.

Remediation of groundwater and soil vapor is not anticipated. No direct groundwater remedy other than remediation of source soils to below  $C_{sat}$  concentrations is anticipated. The exposure path of groundwater that exceeds TACO GROs will be addressed by the City of Chicago Municipal Code 11-8-390 which prohibits the installation of new potable water supply wells. Onsite indoor air vapor intrusion is not considered a risk based on the future use of the site as a greenspace park. Potential offsite impacts will continue to be evaluated and, if needed, will be addressed under separate funding.

A preliminary evaluation of the cost, implementability, and effectiveness of remedial alternatives that were considered is provided in **Table 4-1**. Alternatives that were determined to have low effectiveness, low implementability or prohibitive costs were not evaluated further. The following three alternatives warranted further consideration and have been evaluated in subsequent sections, which also include an evaluation of the climate change resilience of these three alternatives:

Alternative #1 – No Action

Alternative #2 – Excavation and Landfill Disposal of Soil exceeding TCE  $C_{sat}$  Limit

Alternative #3 – In Situ Chemical Oxidation Treatment (Soil Mixing) of Soil exceeding TCE  $C_{sat}$  Limit

### 4.2 Cleanup Alternative Evaluation

Cleanup technologies proposed to address the soil contamination to be remediated under the Brownfield Cleanup Grant were evaluated based on established criteria including the following: effectiveness (protection of human health and the environment, proven long- and short-term effectiveness of the remedy, regulatory compliance, reduction in toxicity/mobility/volume), implementability (probability of success, feasibility and schedule), ability to accommodate the expected effects of climate change (climate change resilience), and cost. Costs for the additional actions to fulfill the SRP requirements and receive an NFR letter were not included in this evaluation.

### 4.2.1 Effectiveness

Alternative #1: The Alternative #1 No Action is not considered effective. No Action would leave the Site in its current state and would not address the soil exceeding TCE  $C_{sat}$  Limit. This alternative would leave soil with TCE concentrations that exceed the  $C_{sat}$  limit (considered “source material”) in place. The Site would not meet IEPA TACO regulations and would not be eligible to receive an NFR letter.

Alternative #2: The effectiveness of Alternative #2 Excavation of Soil exceeding TCE  $C_{sat}$  Limit is high. Soil Excavation would remove soil containing TCE concentrations that exceed the  $C_{sat}$  limit and transport material offsite for disposal at an appropriate facility. Soil samples collected from the base and walls of the excavation area would confirm soil exceeding the TCE  $C_{sat}$  Limit was fully removed.

Following completion of remedial excavation, additional actions would be implemented during future park construction phase to fulfill the SRP requirements including the installation of an engineered barrier (either a 3-foot geological barrier or 18-inch equivalent geotextile and soil barrier) across the full site. This is an effective way to eliminate the soil ingestion exposure route, with an enhanced (10' clean soil or clean fill plus vapor barrier) soil inhalation barrier where needed. The engineered barrier would effectively protect human health and the environment by preventing contact with contaminated soil as long as the barrier is maintained. An institutional control would need to be instituted to protect the engineered barrier and to ensure health and safety of future construction workers. An Operation and Maintenance Plan (O&M Plan) and regular maintenance would be recommended to monitor and protect the engineered barrier.

Alternative #3: The effectiveness of Alternative #3 – In Situ Chemical Oxidation Treatment (Soil Mixing) of Soil exceeding TCE  $C_{sat}$  Limit is high. ISCO has been proven to be effective at reducing TCE concentrations that exceed the  $C_{sat}$  limit to below the  $C_{sat}$  limit when reactants can reach contaminants. Soil mixing is the preferable reactant delivery method in low-permeability soils like those found at the Site. Soil samples will be collected from a variety of depths and locations within the treated mass to confirm the remaining levels of TCE in soil are below the  $C_{sat}$  limit, and this delivery method allows some opportunity to add reagent and re-treat an area that fails confirmation sampling without requiring a later remobilization.

Following completion of source material remediation, additional actions will be implemented during the future park construction phase to fulfill the SRP requirements including the installation of an engineered barrier (either a 3-foot geological barrier or 18-inch equivalent geotextile and soil barrier) across the full site. This is an effective way to eliminate the soil ingestion exposure route, with an enhanced (10' clean soil or clean fill plus vapor barrier) soil inhalation barrier where needed. The engineered barrier would effectively protect human health and the environment by preventing contact with contaminated soil as long as the barrier is maintained. An institutional control would need to be instituted to protect the engineered barrier and to ensure health and safety of future construction workers. An O&M Plan and regular maintenance would be recommended to monitor and protect the engineered barrier.

### 4.2.2 Implementability

Alternative #1: Implementing Alternative #1 No Action is simple/effortless. No actions are required to be completed.

Alternative #2: The ease of implementing Alternative #2 Excavation of Soil exceeding TCE  $C_{sat}$  Limit is moderate. The zone of soil exceeding TCE  $C_{sat}$  Limit is 8 feet to 20 feet below grade. Implementation would include removal and onsite stockpiling of the top 8 feet of soil, potential

dewatering, design and installation of an excavation support system, excavation and offsite disposal of Soil exceeding the TCE  $C_{sat}$  Limit, and backfilling the excavation using uncompacted spoils from onsite and/or imported clean fill.

Installation of the engineered barriers would include the removal of surface soil across the site, offsite disposal or reuse of this material as backfill in the TCE  $C_{sat}$  excavation area, importing of clean soil and (if needed) geotextile/vapor barrier, and placement of imported material across the site. These engineered barriers can be incorporated into the future park design and installed during park construction. Regular maintenance in accordance with the O&M Plan would be recommended.

Community air monitoring and dust/odor suppression may be needed during cleanup activities. If dewatering is required, water will need to be treated and discharged either to the local POTW via a permit or disposed of at an offsite facility. Short-term disturbance to the community (e.g., trucks transporting contaminated soils and backfill) are anticipated.

Alternative #3: The ease of implementing Alternative #3 – In Situ Chemical Oxidation Treatment (Soil Mixing) of Soil exceeding TCE  $C_{sat}$  Limit is moderate. The zone of soil exceeding the TCE  $C_{sat}$  Limit is 8 feet to 20 feet below grade. Implementation would include removal and onsite stockpiling of the top 8 feet of soil, potential dewatering, design and installation of an excavation support system, treatment of soil exceeding the TCE  $C_{sat}$  Limit using ISCO applied by soil mixing. Limited, additional treatment can be applied during the initial mobilization to address areas that fail confirmation sampling.

Installation of the engineered barriers would include the removal and disposal of surface soil across the site, importing of clean soil and (if needed) geotextile/vapor barrier, and placement of imported material across the site. These engineered barriers can be incorporated into the future park design and installed during park construction. Regular maintenance in accordance with the O&M Plan would be recommended.

Community air monitoring and dust/odor suppression may be needed during cleanup activities. If dewatering is required, water will need to be treated and discharged either to the local POTW (assuming they accept the water) via an NPDES permit or disposed of at an offsite facility.

#### **4.2.3 Climate Change Resilience**

Based on the observed and predicted climate changes for the Site area described above, the increase on overall precipitation and increase in frequency of extreme precipitation events appears to be the most important factor to evaluate the remediation alternatives against, due to the vulnerability of Chicago to urban flooding.

Alternative #1: Under Alternative 1 (No Action), significant portions of the site would remain paved with the current impervious surfaces, and no improvements to site stormwater management would be made. Presumably, stormwater from rainfall events would continue to rapidly run off the Site to the storm sewer system.

Alternative #2: Following remedial excavation and completion of the Site as a park, it is expected that the Site would be primarily covered with permeable surface materials and would include landscaped plant cover over most of the Site. In addition, the park landscape design will take into account stormwater concerns and can be designed to capture and retain stormwater in a manner that releases less rain water to the storm sewer system and does so more slowly, as compared to an impervious surface. Best management practices will be used to manage stormwater and prevent erosion of soil from the Site during remedial excavation construction work.



Alternative #3: The climate change resilience for Alternative #3 would be essentially the same as Alternative #2, described above. The end use and design of the planned park would be the same as described above, and the physical remediation process would also be similar as Alternative #2.

#### 4.2.4 Cost

Alternative #1: The costs to implement No Action would be minimal.

Alternative #2: The estimated rough order of magnitude costs to implement Excavation of Soil exceeding TCE  $C_{sat}$  Limit would be approximately \$1,157,000.

Alternative #3: The estimated rough order of magnitude costs to implement In Situ Chemical Oxidation Treatment (Soil Mixing) of Soil exceeding TCE  $C_{sat}$  Limit would be approximately \$720,000.

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## 5.0 Selected Alternative and Proposed Cleanup Plan

The recommended cleanup alternative is Alternative #3 – In Situ Chemical Oxidation Treatment (Soil Mixing) of Soil exceeding TCE  $C_{sat}$  Limit and Engineered Barrier. Alternative #1: No Action cannot be recommended since it does not address site risks to human health and the environment. Both Alternative #2 and Alternative #3 are effective remedial options that use confirmation sampling to verify the reduction of TCE in soil to below the  $C_{sat}$  Limit. Both Alternative #2 and Alternative #3 include similar implementation challenges and long-term maintenance, but are considered moderately simple to implement. Both Alternatives #2 and #3 would improve the climate change resilience of the Site due to a reduction in impervious surfaces and an opportunity for new landscaping design to maximize the capture and retention of stormwater. Alternative #2 may cause slightly more short-term disturbance to the community (e.g., trucks transporting contaminated soils and backfill) than Alternative #3. The estimated remediation cost of Alternative #3 (approximately \$720,000) is approximately 38% less than the estimated cost of Alternative #2 (approximately \$1,157,000).

**Table**

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**Table 4-1**  
**Remedial Alternatives Preliminary Evaluation**  
**2FM 1807-1815 N. Kimball Site**  
**Chicago, Illinois**

**Project Remedial Goals:** Clean-up the Site for future redevelopment as a greenspace park

1. Reduce TCE concentrations below soil saturation concentration ( $C_{sat}$ )
2. Eliminate soil ingestion and inhalation exposure pathways(s) for soil exceeding the TACO Tier 1 SROs

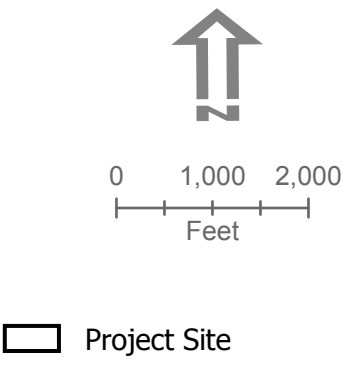
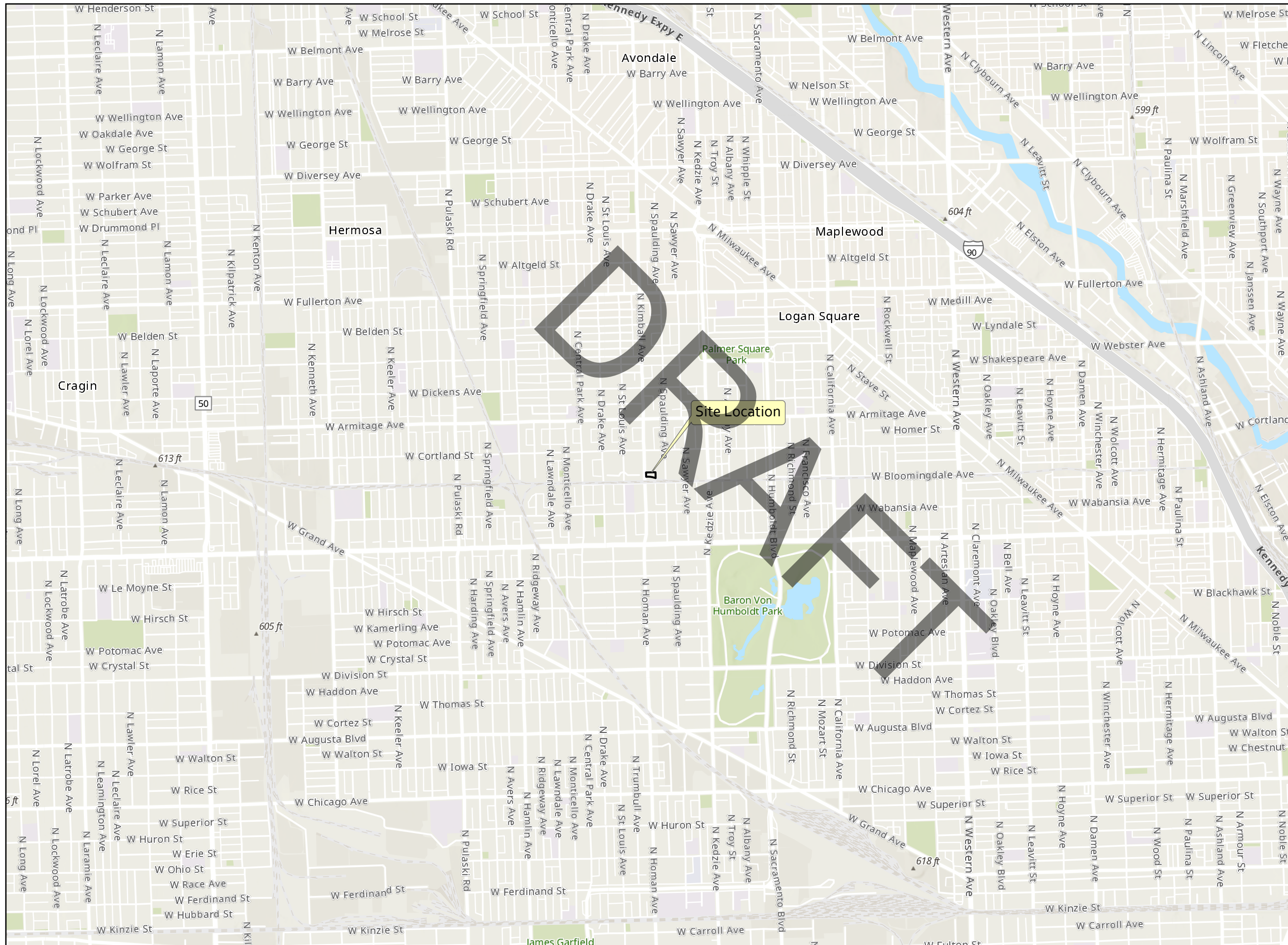
**Institutional Controls:**

1. Land-use restriction to protect and ensure long-term effectiveness of soil remedy
2. City of Chicago Municipal Code to eliminate groundwater and soil migration to groundwater exposure pathways.

Project Remedial Goals:	Grant Project: Reduction of TCE below $C_{sat}$						Future Phase (as additional funding becomes available): Eliminate soil ingestion and inhalation pathways	
	Excavation and Disposal	<i>In Situ</i> Chemical Oxidation - Soil Mixing	<i>In Situ</i> Chemical Oxidation - Direct Injection	<i>In Situ</i> Bioremediation	<i>In Situ</i> Air Sparge / Soil Vapor Extraction	<i>In Situ</i> Thermal Treatment	Engineered Barrier (3-ft geological or 18-inch soil and geotextile equivalent)	Excavation and Disposal
<b>Effectiveness</b> Proven effectiveness for intended application	Excavation and offsite disposal would remove soil with TCE above the $C_{sat}$ limit from the Site.	ISCO treatment has been proven effective at reducing VOCs to below $C_{sat}$ as long as reactants can reach contaminants. Soil mixing is effective at delivering reactant even in low-permeability soils.	ISCO treatment has been proven to be effective at reducing VOCs below $C_{sat}$ if reactants can reach contaminants; however, Site geology has low-permeability soil which would prevent reactant from reaching contaminants.	The predominance of TCE, and relatively low concentration of TCE biodegradation products, indicates that only limited natural biodegradation occurring at this site.	Air Sparge / Soil Vapor Extraction would be ineffective in the Site's low permeability glacial till (mean hydraulic conductivity of approximately $6 \times 10^{-7}$ cm/s) and in the predominantly clay geology in the TCE $C_{sat}$ exceedance zone.	This technology has been proven to reduce VOC source material. It has been used to recover free-product by heating the subsurface and groundwater to close to the boiling point of water (~100°C).	An engineered barrier would eliminate exposure risk by preventing receptors from coming into contact with contaminated soils. An institutional control would be needed.	Excavation and offsite disposal would eliminate exposure risk at the Site by removing and properly disposing the contaminated soil.
Effectiveness Rating (Low, Moderate, High)	High	High to Moderate	Low to Moderate	Low	Low	High	High	High
<b>Implementability</b> Ease of implementation	Implementation would include removal and stockpiling of the top 8 feet of soil, potential dewatering, design and installation of an excavation support system, excavation and offsite disposal of Soil exceeding the TCE $C_{sat}$ Limit, and backfilling the excavation using unimpacted spoils from onsite and/or imported clean fill.	Implementation of ISCO soil mixing would include removal and stockpiling of the top 8 feet of soil, potential dewatering, design and installation of an excavation support system, treatment of soil exceeding the TCE $C_{sat}$ Limit using ISCO applied by soil mixing. Additional applications of ISCO may be required based on confirmation sampling.	ISCO direct injection will not be easy to implement due to predominantly clay geology in the TCE $C_{sat}$ exceedance zone. TOD must be met by the oxidants applied to the treatment zone, and the overall water injection rates must allow adequate pore flushing and contact with TCE in the formation to treat VOCs to levels below $C_{sat}$ . Implementation would require installation of multiple injection wells in the source area in order to deliver the oxidant. Multiple rounds of injections should be expected for this technology.	Implementation of bioremediation is not considered favorable.	Implementation of Air Sparge / SVE will be very difficult given the low permeability glacial till formation and predominantly clay geology in the TCE-source zone.	Implement of thermal treatment is feasible but would likely require a extensive timeframe. Implementation would include installation of steel wells, application of electric current to each electrode which would flow between electrodes via the soil and groundwater. The resistance offered by the media (to the flow of current) results in heating the soil and facilitates remediation.	Implementation of an engineered barrier across the site would include removal of surface soil, installation of geotextile and importation and placement of clean soil across the site. The site is open and the planned end use is greenspace. Regular barrier maintenance in accordance with an O&M Plan would be needed.	Excavation with offsite disposal of all soil exceeding the TACO Tier 1 SROs would require additional delineation sampling. The known depths of contaminated soils may in places require excavation to extend below the water table, requiring dewatering and installation of a sheeting system to excavate to the property boundary.
Implementability Rating (Low, Moderate, High)	Moderate	Moderate	Low to Moderate	Low	Low	High	High	Low
<b>Cost</b> Cost Rough Order of Magnitude (ROM) of Implementation Ranges: <i>Very High</i> >\$2MM, <i>High</i> \$1-\$2MM, <i>Medium</i> \$500K-1MM, <i>Low</i> <\$500K	<i>Medium</i>	<i>Medium</i>	<i>Medium</i>	<i>Medium</i>	<i>Medium to High</i>	<i>Very High</i>	<i>Low</i>	<i>Medium to High</i>
<b>Further Evaluation</b>	Evaluate	Evaluate	Further Evaluation not warranted	Further Evaluation not warranted	Further Evaluation not warranted	Further Evaluation not warranted	Evaluate	Further Evaluation not warranted

## Figures

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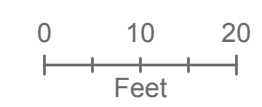
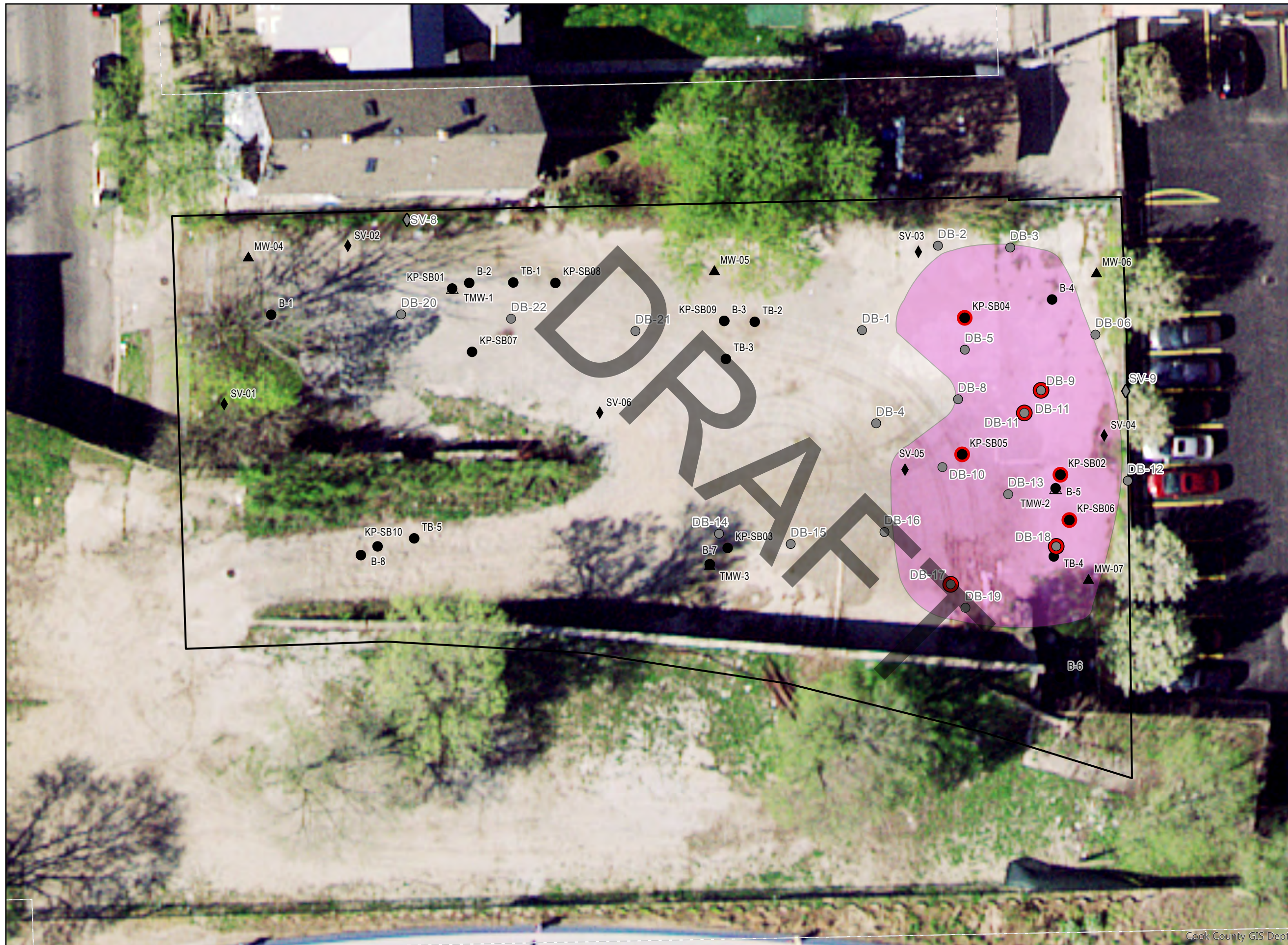


Project Site

Figure 2-1  
Site Location Map







- Project Site
- Cook County Parcel Boundary
- Sample Location - October 2018 Investigation (Preliminary)<sup>2</sup>**
  - Soil Boring
  - Soil Vapor Point
  - Soil Boring (TCE exceeds  $C_{sat}$  limit)
- Sample Location - Previous Investigations by BEI (2010)<sup>1a</sup>, Weston (2012)<sup>1b</sup>, and Terracon (2012)<sup>1c</sup>**
  - Temporary Monitoring Well
  - Soil Boring
  - Soil Vapor Point
  - Permanent Monitoring Well (assume viable for sampling)
  - Soil Boring (TCE exceeds  $C_{sat}$  limit)
  - Area of Soil Exceeding TCE  $C_{sat}$  Limit

Note:

1. The locations of previously installed soil borings, monitoring wells and soil vapor points are based on the following reports:
  - a. Phase II Environmental Site Assessment dated September 24, 2010 and prepared by Brecheisen Engineering, Inc. (BEI). Soil Borings include B-1 to B-8. Temporary Monitoring wells include TMW-1, TMW-2 and TMW-3 (assume wells were decommissioned).
  - b. Comprehensive Site Investigation Report for the Kimball Avenue Park dated July 27, 2012 and prepared by Weston Solutions, Inc. (Weston). Soil Borings include KP-SB01 to KP-SB10.
  - c. Phase II Site Investigation Summary dated January 22, 2013 and prepared by Terracon Consultants, Inc. (Terracon). Soil Borings include TB-01 to TB-05. Monitoring wells include MW-4 to MW-7 (assume wells are viable for sampling). Soil Vapor Points include SV-01 to SV-06.
2. Sample locations shown in grey were from the additional investigation completed by AECOM in October 2018. These locations and results are preliminary at present, and in draft form. Soil borings included DB-1 to DB-22 and soil vapor points inviced SV-7, SV-8, SV-9 and SV-10.

**Figure 2-2**  
**Sample Location and Soil Exceeding TCE  $C_{sat}$  Limit Map**





**Appendix A**

**Previous Investigation Data  
(TCE Results)**

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**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
pH	SU	10.1	8.1	8.3	NA	8.1	8.7	NA	NA	NA
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organic Carbon Content	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Inorganics</b>										
Aluminum	mg/kg	NA	NA	NA	NA	22,000	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	3.3	NA	NA	NA	NA
Arsenic	mg/kg	3.3	8.5	NA	NA	11	9.9	NA	NA	NA
Barium	mg/kg	32	110	NA	NA	140	62	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	1.6	NA	NA	NA	NA
Cadmium	mg/kg	0.52 U	0.51 U	NA	NA	0.69	0.58 U	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	14,000	NA	NA	NA	NA
Chromium	mg/kg	88	38	28	21	37	20	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	14	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	75	NA	NA	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	0.32 U	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	30,000	NA	NA	NA	NA
Lead	mg/kg	14	30	NA	NA	180	16	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	11,000	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	330	NA	NA	NA	NA
Mercury	mg/kg	0.025 U	0.029 U	NA	NA	0.84	0.03 U	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	46	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	3,900	NA	NA	NA	NA
Selenium	mg/kg	1 U	1 U	NA	NA	3	1.2 U	NA	NA	NA
Silver	mg/kg	1 U	1 U	NA	NA	1.3 U	1.2 U	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	340	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	1.3 U	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	42	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	110	NA	NA	NA	NA
<b>TCLP Metals</b>										
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table D-1  
Soil Analytical Results  
Kimball Avenue Park - 1807-15 North Kimball Avenue  
Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
<b>Pesticides</b>										
4,4'-DDD	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
4,4'-DDE	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
4,4'-DDT	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Aldrin	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
alpha-BHC	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
beta-BHC	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Chlordane (Technical)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
delta-BHC	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Dieldrin	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endosulfan I	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Endosulfan II	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endrin	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endrin aldehyde	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endrin ketone	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Heptachlor	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Methoxychlor	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
Toxaphene	mg/kg	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA
<b>PCBS</b>										
PCB-1016 (Aroclor 1016)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA
<b>Herbicides</b>										
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
<b>VOCs</b>										
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,1,1-Trichloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,1,2-Trichloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.05	0.0046 U	0.0062 U
1,1-Dichloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,1-Dichloroethene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.05	0.0043 J	0.0051 J
1,1-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0037 J	0.0062 U
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2-Dichloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,2-Dichloropropane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,3-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,4-Difluorobenzene	mg/kg	0.05	NA	0.05	NA	0.06	0.06	NA	NA	NA
2,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
2-Butanone (MEK)	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.023 U	0.031 U
2-Chlorotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
2-Hexanone	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.092 U	0.12 U
4-Chlorotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
4-Methyl-2-pentanone (MIBK)	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.023 U	0.031 U
Acetone	mg/kg	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.092 U	0.12 U
Acrolein	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Acrylonitrile	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Benzene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.008	0.2	0.005 U	0.0046 U	0.0062 U
Bromobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Bromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Bromodichloromethane	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0046 U	0.0062 U
Bromoform	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0046 U	0.0062 U
Bromomethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Carbon disulfide	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0092 U	0.012 U
Carbon tetrachloride	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
Chlorobenzene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Chloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Chloroform	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	6.13	0.0061	0.0034 J
Chloromethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
cis-1,2-Dichloroethene	mg/kg	0.01	NA	0.05	0.005 U	0.2	368	1.16	0.077	0.045
cis-1,3-Dichloropropene	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0046 U	0.0062 U
Dibromochloromethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Dibromomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Ethyl methacrylate	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Ethylbenzene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	3	0.01	0.0046 U	0.0062 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Iodomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Methylene Chloride	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.018 U	0.025 U
Methyl-tert-butyl ether	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Naphthalene, VOC	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
n-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0036 J	0.0062 U
n-Hexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.019	0.0062 U
n-Propylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0039 J	0.0062 U
Pentafluorobenzene	mg/kg	0.05	NA	0.05	NA	0.06	0.06	NA	NA	NA
p-Isopropyltoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
sec-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Styrene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
tert-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Tetrachloroethene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.05	1	0.04	0.0046 U	0.0062 U
Toluene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.008	10	0.28	0.0029 J	0.0062 U
trans-1,2-Dichloroethene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	8	0.06	0.0034 J	0.0062 U
trans-1,3-Dichloropropene	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0046 U	0.0062 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Trichloroethene	mg/kg	0.03	NA	0.09	0.005 U	0.3	599	408	8.2	9.6
Trichlorofluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Vinyl acetate	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Vinyl chloride	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	11	0.16	0.016	0.012
Xylene (Total)	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.006	4	0.05	0.0092 U	0.012 U

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
<b>SVOCs</b>										
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	0.22 U	0.22 U	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	0.06 U	0.06 U	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	0.21 U	0.21 U	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2-Nitroaniline	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	NA	NA	NA	0.83 U	0.83 U	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA
3-Nitroaniline	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	2 U	2 U	NA	NA	NA
4-Bromophenylphenyl ether	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	NA	1.3 U	1.3 U	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	0.33 U	0.33 U	NA	NA	NA
4-Chlorophenylphenyl ether	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
4-Nitroaniline	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
Acenaphthene	mg/kg	0.05 U	0.05 U	NA	NA	0.15 U	0.15 U	NA	NA	NA
Acenaphthylene	mg/kg	0.05 U	0.05 U	NA	NA	0.07 U	0.07 U	NA	NA	NA
Anthracene	mg/kg	0.12	0.08 U	NA	NA	0.3 U	0.3 U	NA	NA	NA
Benzo(a)anthracene	mg/kg	2.42	0.008 U	NA	NA	0.07 U	0.07 U	NA	NA	NA
Benzo(a)pyrene	mg/kg	4.58	0.02 U	NA	NA	0.07 U	0.07 U	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	6.29	0.05	NA	NA	0.06 U	0.06 U	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	3.76	0.15	NA	NA	0.12 U	0.12 U	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	2.09	0.02	NA	NA	0.12 U	0.12 U	NA	NA	NA
Benzyl alcohol	mg/kg	NA	NA	NA	NA	1.3 U	1.3 U	NA	NA	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
bis(2-Chloroethyl) ether	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA
Chrysene	mg/kg	2.58	0.05 U	NA	NA	0.09 U	0.09 U	NA	NA	NA
Dibenz(a,h)anthracene	mg/kg	0.25	0.02 U	NA	NA	0.11 U	0.11 U	NA	NA	NA
Dibenzofuran	mg/kg	NA	NA	NA	NA	0.22 U	0.22 U	NA	NA	NA
Diethylphthalate	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Dimethylphthalate	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
Di-n-butylphthalate	mg/kg	NA	NA	NA	NA	0.5 U	0.5 U	NA	NA	NA
Di-n-octylphthalate	mg/kg	NA	NA	NA	NA	0.86 U	0.86 U	NA	NA	NA
Fluoranthene	mg/kg	2.16	0.05 U	NA	NA	0.18	0.09 U	NA	NA	NA
Fluorene	mg/kg	0.03 U	0.03 U	NA	NA	0.14 U	0.14 U	NA	NA	NA
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	0.07 U	0.07 U	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	NA	0.17 U	0.17 U	NA	NA	NA
Hexachloroethane	mg/kg	NA	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	3.45	0.11	NA	NA	0.13 U	0.13 U	NA	NA	NA
Isophorone	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Naphthalene	mg/kg	0.05 U	0.05 U	NA	NA	0.09 U	0.09 U	NA	NA	NA
Nitrobenzene	mg/kg	NA	NA	NA	NA	0.24 U	0.24 U	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	NA	0.67 U	0.67 U	NA	NA	NA
Pentachlorophenol	mg/kg	NA	NA	NA	NA	0.03 U	0.03 U	NA	NA	NA
Phenanthrene	mg/kg	0.45	0.03 U	NA	NA	0.12 U	0.12 U	NA	NA	NA
Phenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Pyrene	mg/kg	1.94	0.05 U	NA	NA	0.23	0.07 U	NA	NA	NA
<b>Petroleum Hydrocarbons</b>										
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
pH	SU	NA	8.6	8.2	NA	NA	10.8	7.5	NA	NA
Fractional Organic Carbon	%	NA	NA	NA	3	1.3	NA	NA	NA	NA
Organic Carbon Content	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Inorganics</b>										
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	5,400	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	59	2.3 U	NA
Arsenic	mg/kg	NA	4.8	9.5	NA	NA	15	18	2.9	NA
Barium	mg/kg	NA	84	82	NA	NA	62	220	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	0.91	NA	NA
Cadmium	mg/kg	NA	0.59 U	0.57 U	NA	NA	0.55 U	1.1	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	16,000	NA	NA
Chromium	mg/kg	NA	23	25	NA	NA	24	20	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	6.4	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	2,200	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA	0.28 U	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA	86,000	19,000	NA
Lead	mg/kg	NA	14	18	NA	NA	200	1,100	14	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	4,600	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	630	NA	NA
Mercury	mg/kg	NA	0.028 U	0.03 U	NA	NA	0.17	0.38	0.03	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	16	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	690	NA	NA
Selenium	mg/kg	NA	1.2 U	1.1 U	NA	NA	1.1 U	2.2	NA	NA
Silver	mg/kg	NA	1.2 U	1.1 U	NA	NA	1.1 U	1.2	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	460	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	1.1 U	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	26	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	450	NA	NA
<b>TCLP Metals</b>										
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
<b>Pesticides</b>										
4,4'-DDD	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
4,4'-DDE	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
4,4'-DDT	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Aldrin	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
alpha-BHC	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
beta-BHC	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Chlordane (Technical)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
delta-BHC	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Dieldrin	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endosulfan I	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Endosulfan II	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endosulfan sulfate	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endrin	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endrin aldehyde	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endrin ketone	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Heptachlor	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Heptachlor epoxide	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Methoxychlor	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
Toxaphene	mg/kg	NA	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA
<b>PCBS</b>										
PCB-1016 (Aroclor 1016)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA
<b>Herbicides</b>										
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA



**Table D-1  
Soil Analytical Results  
Kimball Avenue Park - 1807-15 North Kimball Avenue  
Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
<b>VOCs</b>										
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,1,2-Trichloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,1-Dichloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,1-Dichloroethene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	2	0.005 U
1,1-Dichloropropene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	0.019	NA	NA	NA	NA	NA
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,2-Dichloropropane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	0.0053	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,3-Dichloropropane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,4-Difluorobenzene	mg/kg	NA	0.05	0.07	NA	NA	NA	NA	0.05	0.05
2,2-Dichloropropane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	NA	0.005 U	0.005 U	0.022 U	NA	NA	NA	0.005 U	0.005 U
2-Chlorotoluene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	0.005 U	0.005 U	0.088 U	NA	NA	NA	0.005 U	0.005 U
4-Chlorotoluene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	mg/kg	NA	0.005 U	0.005 U	0.022 U	NA	NA	NA	0.005 U	0.005 U
Acetone	mg/kg	NA	0.05 U	0.05 U	0.088 U	NA	NA	NA	0.05 U	0.05 U
Acrolein	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Benzene	mg/kg	NA	0.005 U	0.005 U	0.0018 J	NA	NA	NA	0.005 U	0.005 U
Bromobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	0.002 U	0.002 U
Bromoform	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	0.002 U	0.002 U
Bromomethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Carbon disulfide	mg/kg	NA	0.005 U	0.005 U	0.0088 U	NA	NA	NA	0.005 U	0.005 U
Carbon tetrachloride	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6-9	3-6	6-9	0-3	3-6	0-3	3-6	6-9	9-12
Chlorobenzene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Chloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.3
Chloroform	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Chloromethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
cis-1,2-Dichloroethene	mg/kg	NA	0.005 U	1	0.0044 U	NA	NA	NA	872	20
cis-1,3-Dichloropropene	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	0.002 U	0.002 U
Dibromochloromethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Dibromomethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Ethyl methacrylate	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Iodomethane	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	0.005	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	0.005 U	0.005 U	0.018 U	NA	NA	NA	0.005 U	0.005 U
Methyl-tert-butyl ether	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Naphthalene, VOC	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
n-Hexane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	NA	NA	0.0045	NA	NA	NA	NA	NA
Pentafluorobenzene	mg/kg	NA	0.05	0.07	NA	NA	NA	NA	0.05	0.05
p-Isopropyltoluene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
tert-Butylbenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	5	0.005 U
Toluene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
trans-1,2-Dichloroethene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	15	0.005 U
trans-1,3-Dichloropropene	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	0.002 U	0.002 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	0.01	2	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Trichlorofluoromethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Vinyl acetate	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Vinyl chloride	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	10	0.2
Xylene (Total)	mg/kg	NA	0.005 U	0.005 U	0.049	NA	NA	NA	0.005 U	0.005 U

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
<b>SVOCs</b>										
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.22 U	NA	NA	0.22 U
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.06 U	NA	NA	0.06 U
2,4-Dichlorophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2,4-Dimethylphenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2,4-Dinitrophenol	mg/kg	NA	NA	NA	2 U	NA	0.66 U	NA	NA	0.66 U
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	0.41 U	NA	0.21 U	NA	NA	0.21 U
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	0.41 U	NA	0.1 U	NA	NA	0.1 U
2-Chloronaphthalene	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2-Chlorophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2-Methylnaphthalene	mg/kg	NA	NA	NA	0.41 U	NA	0.12 U	NA	NA	0.12 U
2-Methylphenol(o-Cresol)	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2-Nitroaniline	mg/kg	NA	NA	NA	2 U	NA	3.3 U	NA	NA	3.3 U
2-Nitrophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	NA	NA	0.82 U	NA	0.83 U	NA	NA	0.83 U
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	0.82 U	NA	0.11 U	NA	NA	0.11 U
3-Nitroaniline	mg/kg	NA	NA	NA	2 U	NA	3.3 U	NA	NA	3.3 U
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	2 U	NA	2 U	NA	NA	2 U
4-Bromophenylphenyl ether	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	0.82 U	NA	1.3 U	NA	NA	1.3 U
4-Chloroaniline	mg/kg	NA	NA	NA	0.82 U	NA	0.33 U	NA	NA	0.33 U
4-Chlorophenylphenyl ether	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
4-Nitroaniline	mg/kg	NA	NA	NA	2 U	NA	3.3 U	NA	NA	3.3 U
4-Nitrophenol	mg/kg	NA	NA	NA	2 U	NA	3.3 U	NA	NA	3.3 U
Acenaphthene	mg/kg	NA	0.05 U	0.05 U	0.41 UJ	NA	0.15 U	0.13	NA	0.15 U
Acenaphthylene	mg/kg	NA	0.05 U	0.05 U	0.41 UJ	NA	0.07 U	0.1	NA	0.07 U
Anthracene	mg/kg	NA	0.08 U	0.08 U	0.41 U	NA	0.36	0.87	NA	0.3 U
Benzo(a)anthracene	mg/kg	NA	0.008 U	0.008 U	0.41 UJ	NA	1.28	2.83	NA	0.07 U
Benzo(a)pyrene	mg/kg	NA	0.02 U	0.02 U	0.41 U	NA	1.15	2.77	NA	0.07 U
Benzo(b)fluoranthene	mg/kg	NA	0.01 U	0.01 U	0.41 U	NA	1.57	3.48	NA	0.06 U
Benzo(g,h,i)perylene	mg/kg	NA	0.02 U	0.02 U	0.41 U	NA	0.6	1.7	NA	0.12 U
Benzo(k)fluoranthene	mg/kg	NA	0.01 U	0.01 U	0.41 U	NA	0.68	0.97	NA	0.12 U
Benzyl alcohol	mg/kg	NA	NA	NA	0.82 U	NA	1.3 U	NA	NA	1.3 U
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6-9	3-6	6-9	0-3	3-6	0-3	3-6	6-9	9-12
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
bis(2-Chloroethyl) ether	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Butylbenzylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Carbazole	mg/kg	NA	NA	NA	NA	NA	0.13 U	NA	NA	0.13 U
Chrysene	mg/kg	NA	0.05 U	0.05 U	0.41 UJ	NA	1.67	2.58	NA	0.09 U
Dibenz(a,h)anthracene	mg/kg	NA	0.02 U	0.02 U	0.41 U	NA	0.11 U	0.1	NA	0.11 U
Dibenzofuran	mg/kg	NA	NA	NA	0.41 U	NA	0.22 U	NA	NA	0.22 U
Diethylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Dimethylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	3.3 U	NA	NA	3.3 U
Di-n-butylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.5 U	NA	NA	0.5 U
Di-n-octylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.86 U	NA	NA	0.86 U
Fluoranthene	mg/kg	NA	0.05 U	0.05 U	0.41 U	NA	2.33	4.95	NA	0.09 U
Fluorene	mg/kg	NA	0.03 U	0.03 U	0.41 UJ	NA	0.14 U	0.18	NA	0.14 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Hexachlorobenzene	mg/kg	NA	NA	NA	0.41 U	NA	0.07 U	NA	NA	0.07 U
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	0.41 U	NA	0.17 U	NA	NA	0.17 U
Hexachloroethane	mg/kg	NA	NA	NA	0.41 U	NA	0.13 U	NA	NA	0.13 U
Indeno(1,2,3-cd)pyrene	mg/kg	NA	0.02 U	0.02 U	0.41 U	NA	0.48	1.43	NA	0.13 U
Isophorone	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Naphthalene	mg/kg	NA	0.05 U	0.05 U	0.41 U	NA	0.09 U	0.25	NA	0.09 U
Nitrobenzene	mg/kg	NA	NA	NA	0.41 U	NA	0.24 U	NA	NA	0.24 U
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	0.41 U	NA	0.02 U	NA	NA	0.02 U
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	0.41 U	NA	0.67 U	NA	NA	0.67 U
Pentachlorophenol	mg/kg	NA	NA	NA	2 U	NA	0.03 U	NA	NA	0.03 U
Phenanthrene	mg/kg	NA	0.03 U	0.03 U	0.41 U	NA	1.66	3.04	NA	0.12 U
Phenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Pyrene	mg/kg	NA	0.05 U	0.05 U	0.22 J	NA	2.45	4.7	NA	0.07 U
<b>Petroleum Hydrocarbons</b>										
TPH (C06-C10)	mg/kg	20.3	NA	NA	NA	NA	NA	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	29	NA	NA	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
pH	SU	11.8	7.8	NA	NA	NA	NA	8.3	8	8.4
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organic Carbon Content	%	2.8	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total Inorganics</b>										
Aluminum	mg/kg	2,800	4,500	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	17	26	2.3 U	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	5.4	17	4.6	NA	NA	NA	14	29	5
Barium	mg/kg	51	180	NA	NA	NA	NA	130	230	NA
Beryllium	mg/kg	0.5 U	1.1	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	0.5 U	1.8	NA	NA	NA	NA	1.6	3.6	NA
Calcium	mg/kg	69,000	27,000	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	9.4	18	NA	NA	NA	NA	22	46	24
Cobalt	mg/kg	3	5.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	490	580	NA	NA	NA	NA	NA	NA	NA
Cyanide	mg/kg	0.26 U	0.3 U	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	27,000	25,000	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	160	840	15	NA	NA	NA	910	2,800	18
Magnesium	mg/kg	24,000	5,900	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	410	260	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	0.068	0.42	0.031	NA	NA	NA	0.82	3	0.03
Nickel	mg/kg	11	17	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	390	1,200	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	1 U	7.2	1.2 U	NA	NA	NA	1.1 U	1.3	NA
Silver	mg/kg	1 U	1 U	NA	NA	NA	NA	1.1 U	2.5	NA
Sodium	mg/kg	120	430	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	12	23	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	99	320	NA	NA	NA	NA	NA	NA	NA
<b>TCLP Metals</b>										
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.88	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.008	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.43	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
<b>Pesticides</b>										
4,4'-DDD	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
4,4'-DDE	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
4,4'-DDT	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Aldrin	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
alpha-BHC	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
beta-BHC	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Chlordane (Technical)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
delta-BHC	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Dieldrin	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endosulfan I	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Endosulfan II	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endosulfan sulfate	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endrin	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endrin aldehyde	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endrin ketone	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
gamma-BHC (Lindane)	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.04	0.008 U	NA
Heptachlor	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Heptachlor epoxide	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Methoxychlor	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
Toxaphene	mg/kg	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA
<b>PCBS</b>										
PCB-1016 (Aroclor 1016)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA
<b>Herbicides</b>										
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
<b>VOCs</b>										
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,1,2-Trichloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	mg/kg	NA	0.005 U	0.005 U	4	0.019 J	NA	0.005 U	0.005 U	0.005 U
1,1-Dichloropropene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,2-Dichloropropane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,3-Dichloropropane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,4-Difluorobenzene	mg/kg	NA	0.07	NA	0.06	NA	NA	0.05	0.05	NA
2,2-Dichloropropane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.024 U	NA	0.005 U	0.005 U	0.005 U
2-Chlorotoluene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.095 U	NA	0.005 U	0.005 U	0.005 U
4-Chlorotoluene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.024 U	NA	0.005 U	0.005 U	0.005 U
Acetone	mg/kg	NA	0.05 U	0.05 U	0.05 U	0.095 U	NA	0.05 U	0.05 U	0.05 U
Acrolein	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Acrylonitrile	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Benzene	mg/kg	NA	0.4	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Bromobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Bromodichloromethane	mg/kg	NA	0.002 U	0.002 U	0.002 U	0.0047 U	NA	0.002 U	0.002 U	0.002 U
Bromoform	mg/kg	NA	0.002 U	0.002 U	0.002 U	0.0047 U	NA	0.002 U	0.002 U	0.002 U
Bromomethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Carbon disulfide	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0095 U	NA	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
Chlorobenzene	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Chloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Chloroform	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Chloromethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	mg/kg	NA	8	942	990	56.6 J	NA	0.02	0.1	0.005 U
cis-1,3-Dichloropropene	mg/kg	NA	0.002 U	0.002 U	0.002 U	0.0047 U	NA	0.002 U	0.002 U	0.002 U
Dibromochloromethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Dibromomethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Ethyl methacrylate	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Ethylbenzene	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Iodomethane	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.019 U	NA	0.005 U	0.005 U	0.005 U
Methyl-tert-butyl ether	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Naphthalene, VOC	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
n-Hexane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Pentafluorobenzene	mg/kg	NA	0.07	NA	0.06	NA	NA	0.05	0.05	NA
p-Isopropyltoluene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Styrene	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
tert-Butylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	0.5	0.005 U	14	0.017 J	NA	0.005 U	0.005 U	0.005 U
Toluene	mg/kg	NA	0.3	0.005 U	0.005 U	0.0027 J	NA	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	mg/kg	NA	0.005 U	7.34	14	0.054 J	NA	0.005 U	0.005 U	0.005 U
trans-1,3-Dichloropropene	mg/kg	NA	0.002 U	0.002 U	0.002 U	0.0047 U	NA	0.002 U	0.002 U	0.002 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	73	0.005 U	0.005 U	803 J	NA	0.08	1	0.02
Trichlorofluoromethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Vinyl acetate	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Vinyl chloride	mg/kg	NA	26	44.2	0.002 U	3 J	NA	0.002 U	0.002 U	0.02
Xylene (Total)	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0095 U	NA	0.005 U	0.01	0.005 U



**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
<b>SVOCs</b>										
1,2,4-Trichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
1,2-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
1,3-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
1,4-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2,4,5-Trichlorophenol	mg/kg	NA	0.22 U	0.22 U	NA	NA	NA	0.22 U	0.22 U	NA
2,4,6-Trichlorophenol	mg/kg	NA	0.06 U	0.06 U	NA	NA	NA	0.06 U	0.06 U	NA
2,4-Dichlorophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2,4-Dimethylphenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2,4-Dinitrophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2,4-Dinitrotoluene	mg/kg	NA	0.21 U	0.21 U	NA	NA	NA	0.21 U	0.21 U	NA
2,6-Dinitrotoluene	mg/kg	NA	0.1 U	0.1 U	NA	NA	NA	0.1 U	0.1 U	NA
2-Chloronaphthalene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2-Chlorophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2-Methylnaphthalene	mg/kg	NA	0.64 U	0.12 U	NA	NA	NA	0.19	0.12 U	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
2-Nitrophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	0.83 U	0.83 U	NA	NA	NA	0.83 U	0.83 U	NA
3,3'-Dichlorobenzidine	mg/kg	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA
3-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	2 U	2 U	NA	NA	NA	2 U	2 U	NA
4-Bromophenylphenyl ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
4-Chloro-3-methylphenol	mg/kg	NA	1.3 U	1.3 U	NA	NA	NA	1.3 U	1.3 U	NA
4-Chloroaniline	mg/kg	NA	0.33 U	0.33 U	NA	NA	NA	0.33 U	0.33 U	NA
4-Chlorophenylphenyl ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
4-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
4-Nitrophenol	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
Acenaphthene	mg/kg	0.05 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA
Acenaphthylene	mg/kg	0.05 U	0.07 U	0.07 U	NA	NA	NA	0.07 U	0.07 U	NA
Anthracene	mg/kg	0.08 U	0.39	0.3 U	NA	NA	NA	0.73	0.3 U	NA
Benzo(a)anthracene	mg/kg	0.12	1.07	0.07 U	NA	NA	NA	2.42	0.21	NA
Benzo(a)pyrene	mg/kg	0.11	1.1	0.07 U	NA	NA	NA	2.21	0.29	NA
Benzo(b)fluoranthene	mg/kg	0.15	1.2	0.06 U	NA	NA	NA	2.67	0.36	NA
Benzo(g,h,i)perylene	mg/kg	0.17	0.69	0.12 U	NA	NA	NA	0.99	0.25	NA
Benzo(k)fluoranthene	mg/kg	0.07	0.4	0.12 U	NA	NA	NA	0.81	0.16	NA
Benzyl alcohol	mg/kg	NA	1.3 U	1.3 U	NA	NA	NA	1.3 U	1.3 U	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
bis(2-Chloroethoxy)methane	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
bis(2-Chloroethyl) ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Butylbenzylphthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Carbazole	mg/kg	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA
Chrysene	mg/kg	0.11	0.97	0.09 U	NA	NA	NA	2.2	0.25	NA
Dibenz(a,h)anthracene	mg/kg	0.02 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA
Dibenzofuran	mg/kg	NA	0.22 U	0.22 U	NA	NA	NA	0.22 U	0.22 U	NA
Diethylphthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Dimethylphthalate	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
Di-n-butylphthalate	mg/kg	NA	0.5 U	0.5 U	NA	NA	NA	0.5 U	0.5 U	NA
Di-n-octylphthalate	mg/kg	NA	0.86 U	0.86 U	NA	NA	NA	0.86 U	0.86 U	NA
Fluoranthene	mg/kg	0.21	1.9	0.09 U	NA	NA	NA	4.26	0.3	NA
Fluorene	mg/kg	0.03 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA
Hexachloro-1,3-butadiene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Hexachlorobenzene	mg/kg	NA	0.07 U	0.07 U	NA	NA	NA	0.07 U	0.07 U	NA
Hexachlorocyclopentadiene	mg/kg	NA	0.17 U	0.17 U	NA	NA	NA	0.17 U	0.17 U	NA
Hexachloroethane	mg/kg	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	0.12	0.46	0.13 U	NA	NA	NA	0.88	0.19	NA
Isophorone	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Naphthalene	mg/kg	0.05 U	0.49	0.09 U	NA	NA	NA	0.25	0.09 U	NA
Nitrobenzene	mg/kg	NA	0.24 U	0.24 U	NA	NA	NA	0.24 U	0.24 U	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
N-Nitrosodiphenylamine	mg/kg	NA	0.67 U	0.67 U	NA	NA	NA	0.67 U	0.67 U	NA
Pentachlorophenol	mg/kg	NA	0.03 U	0.03 U	NA	NA	NA	0.03 U	0.03 U	NA
Phenanthrene	mg/kg	0.08	1.86	0.12 U	NA	NA	NA	3.95	0.12 U	NA
Phenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Pyrene	mg/kg	0.19	2.57	0.07 U	NA	NA	NA	5.47	0.44	NA
<b>Petroleum Hydrocarbons</b>										
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	1,720	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	43.6 J	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
pH	SU	NA	8.5	7.7	NA	NA	NA	8.8
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	1.4	NA
Organic Carbon Content	%	NA	NA	NA	4.1	NA	NA	NA
<b>Total Inorganics</b>								
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	12	5.3	NA	NA	NA	5.8
Barium	mg/kg	NA	220	76	NA	NA	NA	200
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	0.78	1.8	NA	NA	NA	0.8
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	33	8.7	NA	NA	NA	19
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	180	36	NA	NA	NA	140
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	0.15	0.034 U	NA	NA	NA	0.063
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	1.1 U	1.7	NA	NA	NA	1.1 U
Silver	mg/kg	NA	1.1 U	1.3 U	NA	NA	NA	1.1 U
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA
<b>TCLP Metals</b>								
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
<b>Pesticides</b>								
4,4'-DDD	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
4,4'-DDE	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
4,4'-DDT	mg/kg	NA	0.11	NA	NA	NA	NA	NA
Aldrin	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
alpha-BHC	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
beta-BHC	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Chlordane (Technical)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
delta-BHC	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Dieldrin	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
Endosulfan I	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Endosulfan II	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
Endrin	mg/kg	NA	0.07	NA	NA	NA	NA	NA
Endrin aldehyde	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
Endrin ketone	mg/kg	NA	0.05	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Heptachlor	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Methoxychlor	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
Toxaphene	mg/kg	NA	0.16 U	NA	NA	NA	NA	NA
<b>PCBS</b>								
PCB-1016 (Aroclor 1016)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	0.16 U	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	0.16 U	NA	NA	NA	NA	NA
<b>Herbicides</b>								
2,4,5-T	mg/kg	NA	0.01 U	NA	NA	NA	NA	0.01 U
2,4,5-TP (Silvex)	mg/kg	NA	0.01 U	NA	NA	NA	NA	0.01 U
2,4-D	mg/kg	NA	0.01 U	NA	NA	NA	NA	0.01 U
Dalapon	mg/kg	NA	0.05 U	NA	NA	NA	NA	0.05 U
Dinoseb	mg/kg	NA	0.02 U	NA	NA	NA	NA	0.02 U
Picloram	mg/kg	NA	0.01 U	NA	NA	NA	NA	0.01 U

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
<b>VOCs</b>								
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1,2-Trichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1-Dichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,2-Dichloropropane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,4-Difluorobenzene	mg/kg	NA	0.06	0.08	NA	NA	NA	0.06
2,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
2-Chlorotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
4-Chlorotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Acetone	mg/kg	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA
Acrolein	mg/kg	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	0.005 U	0.005 U	0.007	0.008	0.005 U	NA	0.005 U
Bromobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
Bromoform	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
Bromomethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Carbon disulfide	mg/kg	0.005 U	0.01	0.02	0.005 U	0.005 U	NA	NA
Carbon tetrachloride	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
Chlorobenzene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Chloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Chloroform	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Chloromethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
cis-1,2-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
cis-1,3-Dichloropropene	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
Dibromochloromethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Dibromomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Ethyl methacrylate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Methyl-tert-butyl ether	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Naphthalene, VOC	mg/kg	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
n-Hexane	mg/kg	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Pentafluorobenzene	mg/kg	NA	0.06	0.08	NA	NA	NA	0.06
p-Isopropyltoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
tert-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	0.08	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Toluene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U
trans-1,2-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
trans-1,3-Dichloropropene	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	0.005 U	0.03	0.04	0.009	0.005 U	NA	NA
Trichlorofluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
Xylene (Total)	mg/kg	0.005 U	0.005 U	0.008	0.005 U	0.005 U	NA	0.005 U

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
<b>SVOCs</b>								
1,2,4-Trichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	0.22 U	0.22 U	NA	NA	0.4 U	NA
2,4,6-Trichlorophenol	mg/kg	NA	0.06 U	0.06 U	NA	NA	0.4 U	NA
2,4-Dichlorophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2,4-Dimethylphenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2,4-Dinitrophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	1.9 U	NA
2,4-Dinitrotoluene	mg/kg	NA	0.21 U	0.21 U	NA	NA	0.4 U	NA
2,6-Dinitrotoluene	mg/kg	NA	0.1 U	0.1 U	NA	NA	0.4 U	NA
2-Chloronaphthalene	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2-Chlorophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2-Methylnaphthalene	mg/kg	NA	0.12 U	0.4	NA	NA	0.4 U	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	1.9 U	NA
2-Nitrophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	0.83 U	0.83 U	NA	NA	0.79 U	NA
3,3'-Dichlorobenzidine	mg/kg	NA	0.11 U	0.11 U	NA	NA	0.79 U	NA
3-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	1.9 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	2 U	2 U	NA	NA	1.9 U	NA
4-Bromophenylphenyl ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
4-Chloro-3-methylphenol	mg/kg	NA	1.3 U	1.3 U	NA	NA	0.79 U	NA
4-Chloroaniline	mg/kg	NA	0.33 U	0.33 U	NA	NA	0.79 U	NA
4-Chlorophenylphenyl ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
4-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	1.9 U	NA
4-Nitrophenol	mg/kg	NA	3.3 U	3.3 U	NA	NA	1.9 U	NA
Acenaphthene	mg/kg	NA	0.15 U	0.15 U	0.05 U	NA	0.4 UJ	0.67
Acenaphthylene	mg/kg	NA	0.07 U	0.07 U	0.05 U	NA	0.4 UJ	0.35
Anthracene	mg/kg	NA	0.41	0.43	0.08 U	NA	0.4 U	2.47
Benzo(a)anthracene	mg/kg	NA	1.76	1.65	0.008 U	NA	0.4 UJ	9.27
Benzo(a)pyrene	mg/kg	NA	1.91	1.88	0.02 U	NA	0.4 U	9.36
Benzo(b)fluoranthene	mg/kg	NA	2.24	2.03	0.01 U	NA	0.4 U	11.5
Benzo(g,h,i)perylene	mg/kg	NA	1.21	1.21	0.02 U	NA	0.4 U	4.63
Benzo(k)fluoranthene	mg/kg	NA	0.66	0.75	0.01 U	NA	0.4 U	3.95
Benzyl alcohol	mg/kg	NA	1.3 U	1.3 U	NA	NA	0.79 U	NA
bis(2chloro 1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	0.4 U	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
bis(2-Chloroethoxy)methane	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
bis(2-Chloroethyl) ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Butylbenzylphthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Carbazole	mg/kg	NA	0.13 U	0.13 U	NA	NA	NA	NA
Chrysene	mg/kg	NA	1.95	1.53	0.05 U	NA	0.4 UJ	8.17
Dibenz(a,h)anthracene	mg/kg	NA	0.11 U	0.11 U	0.02 U	NA	0.4 U	0.35
Dibenzofuran	mg/kg	NA	0.22 U	0.22 U	NA	NA	0.4 U	NA
Diethylphthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Dimethylphthalate	mg/kg	NA	3.3 U	3.3 U	NA	NA	0.4 U	NA
Di-n-butylphthalate	mg/kg	NA	0.5 U	0.5 U	NA	NA	0.4 U	NA
Di-n-octylphthalate	mg/kg	NA	0.86 U	0.86 U	NA	NA	0.4 U	NA
Fluoranthene	mg/kg	NA	3.38	3.25	0.05 U	NA	0.4 U	17.6
Fluorene	mg/kg	NA	0.14 U	0.14 U	0.03 U	NA	0.4 UJ	0.78
Hexachloro-1,3-butadiene	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Hexachlorobenzene	mg/kg	NA	0.07 U	0.07 U	NA	NA	0.4 U	NA
Hexachlorocyclopentadiene	mg/kg	NA	0.17 U	0.17 U	NA	NA	0.4 U	NA
Hexachloroethane	mg/kg	NA	0.13 U	0.13 U	NA	NA	0.4 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	0.82	0.87	0.02 U	NA	0.4 U	4.29
Isophorone	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Naphthalene	mg/kg	NA	0.09 U	0.37	0.05 U	NA	0.4 U	0.41
Nitrobenzene	mg/kg	NA	0.24 U	0.24 U	NA	NA	0.4 U	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	0.02 U	0.02 U	NA	NA	0.4 U	NA
N-Nitrosodiphenylamine	mg/kg	NA	0.67 U	0.67 U	NA	NA	0.4 U	NA
Pentachlorophenol	mg/kg	NA	0.03 U	0.03 U	NA	NA	1.9 U	NA
Phenanthrene	mg/kg	NA	2.25	2.51	0.03 U	NA	0.4 U	7.63
Phenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Pyrene	mg/kg	NA	4.56	4.77	0.05 U	NA	0.4 U	15.2
<b>Petroleum Hydrocarbons</b>								
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	NA	NA



**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
pH	SU	NA	NA	NA	NA	NA	NA	NA
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	NA	NA
Organic Carbon Content	%	NA	NA	NA	NA	NA	NA	NA
<b>Total Inorganics</b>								
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA
<b>TCLP Metals</b>								
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
<b>Pesticides</b>								
4,4'-DDD	mg/kg	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	mg/kg	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	mg/kg	NA	NA	NA	NA	NA	NA	NA
Aldrin	mg/kg	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	mg/kg	NA	NA	NA	NA	NA	NA	NA
beta-BHC	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chlordane (Technical)	mg/kg	NA	NA	NA	NA	NA	NA	NA
delta-BHC	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dieldrin	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endrin	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	mg/kg	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Heptachlor	mg/kg	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	mg/kg	NA	NA	NA	NA	NA	NA	NA
Toxaphene	mg/kg	NA	NA	NA	NA	NA	NA	NA
<b>PCBS</b>								
PCB-1016 (Aroclor 1016)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	NA	NA	NA	NA	NA	NA
<b>Herbicides</b>								
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
<b>VOCs</b>								
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1-Dichloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1-Dichloroethene	mg/kg	NA	NA	NA	0.35 J	0.18 J	0.32 J	0.081
1,1-Dichloropropene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	0.018 J	0.012 J	0.012 J	0.0062 U
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2-Dichloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2-Dichloropropane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	0.0061 J	0.004 J	0.0036 J	0.0062 U
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,3-Dichloropropane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,4-Difluorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
2-Butanone (MEK)	mg/kg	NA	NA	NA	0.022 U	0.024 U	0.022 U	0.031 U
2-Chlorotoluene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
2-Hexanone	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
4-Chlorotoluene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
4-Methyl-2-pentanone (MIBK)	mg/kg	NA	NA	NA	0.022 U	0.024 U	0.022 U	0.031 U
Acetone	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Acrolein	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Acrylonitrile	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Benzene	mg/kg	NA	NA	NA	0.0045 U	0.0015 J	0.0044 U	0.0062 U
Bromobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Bromochloromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Bromodichloromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Bromoform	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Bromomethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Carbon disulfide	mg/kg	NA	NA	NA	0.009 U	0.0095 U	0.0089 U	0.012 U
Carbon tetrachloride	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
Chlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Chloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Chloroform	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Chloromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
cis-1,2-Dichloroethene	mg/kg	NA	NA	NA	2.6 J	0.28 J	6.3 J	0.19
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Dibromochloromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Dibromomethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Dichlorodifluoromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Ethyl methacrylate	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Ethylbenzene	mg/kg	NA	NA	NA	0.008 J	0.0038 J	0.0056 J	0.0062 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Iodomethane	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Methylene Chloride	mg/kg	NA	NA	NA	0.018 U	0.019 U	0.018 U	0.025 U
Methyl-tert-butyl ether	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Naphthalene, VOC	mg/kg	NA	NA	NA	0.0032 J	0.0039 J	0.0046 J	0.0062 U
n-Butylbenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
n-Hexane	mg/kg	NA	NA	NA	0.013 J	0.0079 J	0.0098 J	0.0062 U
n-Propylbenzene	mg/kg	NA	NA	NA	0.0059 J	0.0029 J	0.0037 J	0.0062 U
Pentafluorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
sec-Butylbenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Styrene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
tert-Butylbenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Tetrachloroethene	mg/kg	NA	NA	NA	4.1 J	0.28 J	2.7 J	0.0061 J
Toluene	mg/kg	NA	NA	NA	0.036 J	0.016 J	0.033 J	0.0031 J
trans-1,2-Dichloroethene	mg/kg	NA	NA	NA	0.028 J	0.011 J	0.036 J	0.0058 J
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Trichloroethene	mg/kg	NA	NA	NA	3,510 J	894 J	3,590 J	338
Trichlorofluoromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Vinyl acetate	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Vinyl chloride	mg/kg	NA	NA	NA	0.088 J	0.41 J	0.38 J	0.23
Xylene (Total)	mg/kg	NA	NA	NA	0.033 J	0.011 J	0.022 J	0.012 U

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
<b>SVOCs</b>								
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	0.21	0.11	0.14	NA	NA	NA	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Bromophenylphenyl ether	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenylphenyl ether	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	0.52	0.36	0.36	NA	NA	NA	NA
Acenaphthylene	mg/kg	0.096	0.095	0.12	NA	NA	NA	NA
Anthracene	mg/kg	1.2	0.89	0.94	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	2.2	2.1	2.4	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	2	1.9	2.2	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	1.9	2.1	2.4	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	1.2	1.3	1.5	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	1.8	1.7	2	NA	NA	NA	NA
Benzyl alcohol	mg/kg	NA	NA	NA	NA	NA	NA	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	2.5	2.4	2.8	NA	NA	NA	NA
Dibenz(a,h)anthracene	mg/kg	0.66	0.66	0.77	NA	NA	NA	NA
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	5.1	4.7	5.2	NA	NA	NA	NA
Fluorene	mg/kg	0.67	0.43	0.44	NA	NA	NA	NA
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	1.1	1.2	1.4	NA	NA	NA	NA
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	0.35	0.2	0.26	NA	NA	NA	NA
Nitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	4.6	3.5	3.9	NA	NA	NA	NA
Phenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	4.1	3.8	4.3	NA	NA	NA	NA
<b>Petroleum Hydrocarbons</b>								
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
pH	SU	NA	NA	NA	NA	NA	NA
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	NA
Organic Carbon Content	%	NA	NA	NA	NA	NA	NA
<b>Total Inorganics</b>							
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA
<b>TCLP Metals</b>							
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
<b>Pesticides</b>							
4,4'-DDD	mg/kg	NA	NA	NA	NA	NA	NA
4,4'-DDE	mg/kg	NA	NA	NA	NA	NA	NA
4,4'-DDT	mg/kg	NA	NA	NA	NA	NA	NA
Aldrin	mg/kg	NA	NA	NA	NA	NA	NA
alpha-BHC	mg/kg	NA	NA	NA	NA	NA	NA
beta-BHC	mg/kg	NA	NA	NA	NA	NA	NA
Chlordane (Technical)	mg/kg	NA	NA	NA	NA	NA	NA
delta-BHC	mg/kg	NA	NA	NA	NA	NA	NA
Dieldrin	mg/kg	NA	NA	NA	NA	NA	NA
Endosulfan I	mg/kg	NA	NA	NA	NA	NA	NA
Endosulfan II	mg/kg	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	NA	NA	NA	NA	NA	NA
Endrin	mg/kg	NA	NA	NA	NA	NA	NA
Endrin aldehyde	mg/kg	NA	NA	NA	NA	NA	NA
Endrin ketone	mg/kg	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	NA	NA	NA	NA	NA	NA
Heptachlor	mg/kg	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	NA	NA	NA	NA	NA	NA
Methoxychlor	mg/kg	NA	NA	NA	NA	NA	NA
Toxaphene	mg/kg	NA	NA	NA	NA	NA	NA
<b>PCBS</b>							
PCB-1016 (Aroclor 1016)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	NA	NA	NA	NA	NA
<b>Herbicides</b>							
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA



**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
<b>VOCs</b>							
1,1,1,2-Tetrachloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,1,1-Trichloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,1,2-Trichloroethane	mg/kg	0.0048 U	0.005 U	0.0041 J	0.0046 U	0.0045 U	0.0055 U
1,1-Dichloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,1-Dichloroethene	mg/kg	1.2 J	0.26	0.013	0.0046 U	0.0045 U	0.0055 U
1,1-Dichloropropene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2,3-Trichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2,3-Trichloropropane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2,4-Trichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2,4-Trimethylbenzene	mg/kg	0.05	0.028	0.0043 U	0.0046 U	4.1	0.06
1,2-Dibromoethane (EDB)	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2-Dichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.042	0.0028 J
1,2-Dichloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2-Dichloropropane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,3,5-Trimethylbenzene	mg/kg	0.018	0.011	0.0043 U	0.0046 U	0.035	0.012
1,3-Dichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,3-Dichloropropane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,4-Dichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0084	0.0055 U
1,4-Difluorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
2-Butanone (MEK)	mg/kg	0.024 U	0.025 U	0.021 U	0.023 U	0.022 U	0.046
2-Chlorotoluene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
2-Hexanone	mg/kg	0.27	0.099 U	0.085 U	0.093 U	0.31	0.11 U
4-Chlorotoluene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
4-Methyl-2-pentanone (MIBK)	mg/kg	0.024 U	0.025 U	0.021 U	0.023 U	0.022 U	0.027 U
Acetone	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.16	0.093 J
Acrolein	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Acrylonitrile	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Benzene	mg/kg	0.0048 U	0.0039 J	0.0043 U	0.0046 U	0.0036 J	0.0055 U
Bromobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Bromochloromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Bromodichloromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Bromoform	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Bromomethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Carbon disulfide	mg/kg	0.0096 U	0.0027 J	0.0085 U	0.0093 U	0.0089 U	0.011 U
Carbon tetrachloride	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
Chlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.092	0.0062
Chloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Chloroform	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Chloromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
cis-1,2-Dichloroethene	mg/kg	22.2	22.4	31.2	0.0046 U	0.0045 U	28.1
cis-1,3-Dichloropropene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Dibromochloromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Dibromomethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Dichlorodifluoromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Ethyl methacrylate	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Ethylbenzene	mg/kg	0.018	0.0073	0.0043 U	0.0046 U	0.0034 J	0.0028 J
Hexachloro-1,3-butadiene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Iodomethane	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Isopropylbenzene (Cumene)	mg/kg	0.01	0.0036 J	0.0043 U	0.0046 U	0.041	0.0065
Methylene Chloride	mg/kg	0.019 U	0.02 U	0.017 U	0.019 U	0.018 U	0.022 U
Methyl-tert-butyl ether	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Naphthalene, VOC	mg/kg	0.0042 J	0.0027 J	0.0043 U	0.0046 U	0.039	0.004 J
n-Butylbenzene	mg/kg	0.0087	0.0032 J	0.0043 U	0.0046 U	0.048	0.0057
n-Hexane	mg/kg	0.047	0.043	0.0043 U	0.0046 U	0.5	0.05
n-Propylbenzene	mg/kg	0.012	0.0068	0.0043 U	0.0046 U	0.13	0.014
Pentafluorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	0.015	0.0043 J	0.0043 U	0.0046 U	0.034	0.0069
sec-Butylbenzene	mg/kg	0.0048	0.0027 J	0.0043 U	0.0046 U	0.03	0.0034 J
Styrene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
tert-Butylbenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Tetrachloroethene	mg/kg	3.8	0.82 J	0.0043 U	0.0046 U	0.0045 U	0.0027 J
Toluene	mg/kg	0.075	0.029	0.0043 U	0.0046 U	0.0027 J	0.0041 J
trans-1,2-Dichloroethene	mg/kg	0.18	0.12	0.12	0.0046 U	0.0045 U	0.0086
trans-1,3-Dichloropropene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
trans-1,4-Dichloro-2-butene	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Trichloroethene	mg/kg	4,230	1,220	68.3	0.0046 U	0.0015 J	0.11
Trichlorofluoromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Vinyl acetate	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Vinyl chloride	mg/kg	0.58	0.49	2	0.0046 U	0.0045 U	0.14
Xylene (Total)	mg/kg	0.072	0.026	0.0085 U	0.0093 U	0.022	0.019

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
<b>SVOCs</b>							
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA
4-Bromophenylphenyl ether	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA
4-Chlorophenylphenyl ether	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA
Benzyl alcohol	mg/kg	NA	NA	NA	NA	NA	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	mg/kg	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	NA	NA	NA	NA	NA	NA
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	NA	NA	NA	NA	NA	NA
<b>Petroleum Hydrocarbons</b>							
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	5.5
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	31.6

**Table D-1**  
**Soil Analytical Results**  
**Kimball Avenue Park - 1807-15 North Kimball Avenue**  
**Chicago, Cook County, Illinois**

Notes:

% - Percent

D = Duplicate

ft bgs = Feet below ground surface

ID = Identification

J = Concentration estimated

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

NA = Not analyzed

PCB = Polychlorinated biphenyls

SU = Standard unit

SVOC = Semivolatile organic compound

TPH = Total petroleum hydrocarbons

U = Constituent not detected. Reporting limit presented.

VOC = Volatile organic compound

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Table 1: Soil Analytical Results  
 Limited Site Investigation  
 Proposed Kimbal Park  
 Chicago, IL  
 A2107017 Task 7A  
 Page 1 of 2

Sample Location/Identification Sample Depth (feet)		TB-1	TB-2	TB-2-Dup	TB-3	TB-4	TB-5	TB-5-Dup	Tier 1 Soil Remediation Objectives for Residential Properties				Soil Component of the Groundwater Ingestion Route Values
		23-25	13-15	13-15	23-25	28-30	15-17	15-17	Occupants		Construction Workers	Background	
Date Collected		8/20/2012	8/20/2012	8/20/2012	8/21/2012	8/21/2012	8/21/2012	8/21/2012	Ingestion	Inhalation	Inhalation	Chicago	Class II
Units													
<b>Volatile Organic Analytical Parameters</b>													
74-87-3	Chloromethane	mg/kg	< 0.0098	< 0.0087	< 0.0094	< 0.0084	< 0.0095	--	310	110	1.1	---	0.68
74-83-9	Bromomethane	mg/kg	< 0.0098	< 0.0087	< 0.0094	< 0.0084	< 0.0095	--	110	10	3.9	---	1.2
75-01-4	Vinyl Chloride	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	0.46	0.28	---	---	0.07
75-00-3	Chloroethane	mg/kg	< 0.0098	< 0.0087	< 0.0094	< 0.0084	< 0.0095	--	31000	1500	94	---	70
75-09-2	Methylene Chloride	mg/kg	< 0.0098	< 0.0087	< 0.0094	< 0.0084	< 0.0095	--	85	13	---	---	0.2
67-64-1	Acetone	mg/kg	< 0.073	< 0.065	< 0.07	< 0.063	< 0.071	--	70000	100000	---	---	25
75-15-0	Carbon Disulfide	mg/kg	< 0.049	< 0.043	< 0.047	< 0.042	< 0.047	--	7800	720	9	---	160
75-35-4	1,1-Dichloroethene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	3900	290	3	---	0.3
75-34-3	1,1-Dichloroethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	7800	1300	130	---	110
156-59-2	cis-1,2-Dichloroethene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	780	1200	---	---	1.1
156-60-5	trans-1,2-Dichloroethene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	1600	3100	---	---	3.4
67-66-3	Chloroform	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	100	0.3	---	---	2.9
107-06-2	1,2-Dichloroethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	7	0.4	---	---	0.1
78-93-3	2-Butanone	mg/kg	< 0.073	< 0.065	< 0.07	< 0.063	< 0.071	--	47000	25000	710	---	17
71-55-6	1,1,1-Trichloroethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	---	1200	---	---	9.6
56-23-5	Carbon Tetrachloride	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	5	0.3	---	---	0.33
75-27-4	Bromodichloromethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	10	3000	---	---	0.6
78-87-5	1,2-Dichloropropane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	9	15	0.5	---	0.15
542-75-6	1,3-Dichloropropene (cis + trans)	mg/kg	< 0.002	< 0.0017	< 0.0019	< 0.0017	< 0.0019	--	6.4	1.1	0.39	---	0.02
79-01-6	Trichloroethene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	0.0049	--	58	5	---	---	0.3
124-48-1	Dibromochloromethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	1600	1300	---	---	0.4
79-00-5	1,1,2-Trichloroethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	310	1800	---	---	0.3
71-43-2	Benzene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	12	0.8	---	---	0.17
75-25-2	Bromoform	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	81	53	---	---	0.8
1634-04-4	Methyl Tertiary-Butyl Ether	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	780	8800	140	---	0.32
108-10-1	4-Methyl-2-pentanone	mg/kg	< 0.02	< 0.017	< 0.019	< 0.017	< 0.019	--	---	3100	340	---	2.5
591-78-6	2-Hexanone	mg/kg	< 0.02	< 0.017	< 0.019	< 0.017	< 0.019	--	3100	70	0.72	---	1.3
127-18-4	Tetrachloroethene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	12	11	---	---	0.3
108-88-3	Toluene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	16000	650	42	---	29
79-34-5	1,1,2,2-Tetrachloroethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	4700	2000	---	---	3.3
108-90-7	Chlorobenzene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	1600	130	1.3	---	6.5
100-41-4	Ethylbenzene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	7800	400	58	---	19
100-42-5	Styrene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	16000	1500	430	---	18
1330-20-7	Xylenes (total)	mg/kg	< 0.015	< 0.013	< 0.014	< 0.013	< 0.014	--	16000	320	5.6	---	150
<b>Semivolatile Organic Analytical Parameters</b>													
108-95-2	Phenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	23000	---	---	100
111-44-4	bis(2-Chloroethyl) ether	mg/kg	--	--	--	--	--	< 0.21	< 0.2	0.6	0.2	---	0.0004
95-57-8	2-Chlorophenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	390	53000	---	4
95-50-1	1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	7000	560	310	43
541-73-1	1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	70	570	---	1
106-46-7	1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	---	11000	340	11
95-48-7	2-Methylphenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	3900	---	---	15
108-60-1	2,2'-oxybis(1-chloropropane)	mg/kg	--	--	--	--	--	< 0.21	< 0.2	3100	1300	---	2.4
106-44-5	4-Methylphenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	390	---	---	0.2
621-64-7	N-Nitroso-di-n-propylamine	mg/kg	--	--	--	--	--	< 0.041	< 0.039	0.09	---	---	0.00005
67-72-1	Hexachloroethane	mg/kg	--	--	--	--	--	< 0.21	< 0.2	78	---	---	2.6
98-95-3	Nitrobenzene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	39	92	9.4	0.1
78-59-1	Isophorone	mg/kg	--	--	--	--	--	< 0.21	< 0.2	15600	4600	---	8
88-75-5	2-Nitrophenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	---	---	---	---
105-67-9	2,4-Dimethylphenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	1600	---	---	9
111-91-1	bis(2-Chloroethoxy) methane	mg/kg	--	--	--	--	--	< 0.21	< 0.2	---	---	---	---
120-83-2	2,4-Dichlorophenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	230	---	---	1
120-82-1	1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	780	3200	920	53
91-20-3	Naphthalene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	1600	170	1.8	0.04

Table 1: Soil Analytical Results  
 Limited Site Investigation  
 Proposed Kimbal Park  
 Chicago, IL  
 A2107017 Task 7A  
 Page 2 of 2

Sample Location/Identification Sample Depth (feet)		TB-1	TB-2	TB-2-Dup	TB-3	TB-4	TB-5	TB-5-Dup	Tier 1 Soil Remediation Objectives for Residential Properties				Soil Component of the Groundwater Ingestion Route Values
		23-25	13-15	13-15	23-25	28-30	15-17	15-17	Occupants		Construction Workers	Background	
Date Collected		8/20/2012	8/20/2012	8/20/2012	8/21/2012	8/21/2012	8/21/2012	8/21/2012	Ingestion	Inhalation	Inhalation	Chicago	Class II
Units													
106-47-8	4-Chloroaniline	mg/kg	--	--	--	--	< 0.21	< 0.2	310	---	---	---	0.7
87-68-3	Hexachlorobutadiene	mg/kg	--	--	--	--	< 0.21	< 0.2	16	1000	180	---	15
59-50-7	4-Chloro-3-methylphenol	mg/kg	--	--	--	--	< 0.41	< 0.39	5500	---	---	---	120
91-57-6	2-Methylnaphthalene	mg/kg	--	--	--	--	< 0.21	< 0.2	310	---	---	---	36
77-47-4	Hexachlorocyclopentadiene	mg/kg	--	--	--	--	< 0.21	< 0.2	550	10	1.1	---	2200
88-06-2	2,4,6-Trichlorophenol	mg/kg	--	--	--	--	< 0.21	< 0.2	58	200	---	---	0.77
95-95-4	2,4,5-Trichlorophenol	mg/kg	--	--	--	--	< 0.21	< 0.2	7800	---	---	---	1400
91-58-7	2-Chloronaphthalene	mg/kg	--	--	--	--	< 0.21	< 0.2	6300	---	---	---	240
88-74-4	2-Nitroaniline	mg/kg	--	--	--	--	< 0.21	< 0.2	230	35	3.6	---	0.14
131-11-3	Dimethylphthalate	mg/kg	--	--	--	--	< 0.21	< 0.2	780000	1300	---	---	380
208-96-8	Acenaphthylene	mg/kg	--	--	--	--	< 0.041	< 0.039	2300	---	---	0.03	420
606-20-2	2,6-dinitrotoluene	mg/kg	--	--	--	--	< 0.041	< 0.039	0.9	---	---	---	0.0007
99-09-2	3-Nitroaniline	mg/kg	--	--	--	--	< 0.21	< 0.2	23	250	26	---	0.01
83-32-9	Acenaphthene	mg/kg	--	--	--	--	< 0.041	< 0.039	4700	---	---	0.09	2900
51-28-5	2,4-Dinitrophenol	mg/kg	--	--	--	--	< 1	< 0.97	160	---	---	---	0.2
100-02-7	4-Nitrophenol	mg/kg	--	--	--	--	< 0.41	< 0.39	630	---	---	---	---
132-64-9	Dibenzofuran	mg/kg	--	--	--	--	< 0.21	< 0.2	160	---	---	---	30
121-14-2	2,4-Dinitrotoluene	mg/kg	--	--	--	--	< 0.041	< 0.039	0.9	---	---	---	0.0008
84-66-2	Diethylphthalate	mg/kg	--	--	--	--	< 0.21	< 0.2	63000	2000	---	---	470
7005-72-3	4-Chlorophenyl-phenyl ether	mg/kg	--	--	--	--	< 0.21	< 0.2	---	---	---	---	---
86-73-7	Fluorene	mg/kg	--	--	--	--	< 0.041	< 0.039	3100	---	---	0.1	2800
100-01-6	4-Nitroaniline	mg/kg	--	--	--	--	< 0.21	< 0.2	230	1000	110	---	0.1
534-52-1	4,6-Dinitro-2-methylphenol	mg/kg	--	--	--	--	< 0.41	< 0.39	7.8	---	---	---	---
86-30-6	N-nitrosodiphenylamine	mg/kg	--	--	--	--	< 0.041	< 0.039	130	---	---	---	5.6
101-55-3	4-Bromophenyl-phenyl ether	mg/kg	--	--	--	--	< 0.21	< 0.2	---	---	---	---	---
118-74-1	Hexachlorobenzene	mg/kg	--	--	--	--	< 0.21	< 0.2	0.4	1	---	---	11
87-86-5	Pentachlorophenol	mg/kg	--	--	--	--	< 0.041	< 0.039	3	---	---	---	0.14
85-01-8	Phenanthrene	mg/kg	--	--	--	--	< 0.041	< 0.039	2300	---	---	1.3	1000
120-12-7	Anthracene	mg/kg	--	--	--	--	< 0.041	< 0.039	23000	---	---	0.25	59000
86-74-8	Carbazole	mg/kg	--	--	--	--	< 0.21	< 0.2	32	---	---	---	2.8
84-74-2	Di-n-butylphthalate	mg/kg	--	--	--	--	< 0.21	< 0.2	7800	2300	---	---	2300
206-44-0	Fluoranthene	mg/kg	--	--	--	--	< 0.041	< 0.039	3100	---	---	2.7	21000
129-00-0	Pyrene	mg/kg	--	--	--	--	< 0.041	< 0.039	2300	---	---	1.9	21000
85-68-7	Butylbenzylphthalate	mg/kg	--	--	--	--	< 0.21	< 0.2	16000	930	---	---	930
91-94-1	3,3'-Dichlorobenzidine	mg/kg	--	--	--	--	< 0.21	< 0.2	1	---	---	---	0.033
56-55-3	Benzo(a)anthracene	mg/kg	--	--	--	--	< 0.041	< 0.039	0.9	---	---	1.1	8
218-01-9	Chrysene	mg/kg	--	--	--	--	< 0.041	< 0.039	88	---	---	1.2	800
117-81-7	bis(2-Ethylhexyl)phthalate	mg/kg	--	--	--	--	< 1	< 0.97	46	31000	---	---	31000
117-84-0	Di-n-octylphthalate	mg/kg	--	--	--	--	< 0.21	< 0.2	1600	10000	---	---	10000
205-99-2	Benzo(b)fluoranthene	mg/kg	--	--	--	--	< 0.041	< 0.039	0.9	---	---	1.5	25
207-08-9	Benzo(k)fluoranthene	mg/kg	--	--	--	--	< 0.041	< 0.039	9	---	---	0.99	250
50-32-8	Benzo(a)pyrene	mg/kg	--	--	--	--	< 0.041	< 0.039	0.09	---	---	1.3	82
193-39-5	Indeno(1,2,3-c,d)pyrene	mg/kg	--	--	--	--	< 0.041	< 0.039	0.9	---	---	0.86	69
53-70-3	Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	< 0.041	< 0.039	0.09	---	---	0.2	7.6
191-24-2	Benzo(g,h,i)perylene	mg/kg	--	--	--	--	< 0.041	< 0.039	2300	---	---	0.68	130000

## Table Notes

Remediation Objectives from 35 Illinois Administrative Code Chapter 742: *Tiered Approach to Corrective Action Objectives (TACO)*.

Remediation Objectives for Non-TACO compounds from Illinois Environmental Protection Agency's (IEPA's) web site (<http://www.epa.state.il.us/land/taco/chemicals-not-in-taco-tier-1-tables.html>).

mg/L = milligrams per liter, generally equivalent to parts per million (ppm)

mg/kg = milligrams per kilogram, generally equivalent to ppm

μg/m<sup>3</sup> = micrograms per cubic meter

TCLP = Toxicity Characteristic Leaching Procedure

SPLP = Synthetic Precipitation Leaching Procedure

DRAFT



**Table 1**

**PCE, TCE and Degradation Products Exceeding C<sub>sat</sub>**

**1807-1815 North Kimball Avenue**

**Chicago, Illinois**

Client Sample ID :	DB011012	DB011012D (Duplicate)	DB011618	DB012224	DB021012	DB021618	DB022224	DB031012	DB031618	DB031618D (Duplicate)		
Laboratory ID :	18110219-011	18110219-012	18110219-013	18110219-014	18110137-006	18110137-007	18110137-008	18110137-009	18110137-010	18110137-011		
Boring Location :	DB-01	DB-01	DB-01	DB-01	DB-02	DB-02	DB-02	DB-03	DB-03	DB-03		
Sample Interval :	10-12	10-12	16-18	22-24	10-12	16-18	22-24	10-12	16-18	16-18		
Date Collected :	11/07/2018 14:20	11/07/2018 14:22	11/07/2018 14:30	11/07/2018 14:35	11/05/2018 11:20	11/05/2018 11:25	11/05/2018 11:30	11/05/2018 12:10	11/05/2018 12:20	11/05/2018 12:21		
Soil Saturation Concentration (C <sub>sat</sub> )												
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)										
1,1-Dichloroethene	3400	2500	< 0.0054	< 0.0048	< 0.0052	< 0.0042	< 0.0054	< 0.0047	< 0.0061	< 0.0046	< 0.0069	< 0.0065
cis-1,2-Dichloroethene	1300	1000	< 0.0054	< 0.0048	< 0.0052	< 0.0042	< 0.0054	< 0.0047	< 0.0061	< 0.0046	< 0.0069	< 0.0065
trans-1,2-Dichloroethene	3000	2100	< 0.0054	< 0.0048	< 0.0052	< 0.0042	< 0.0054	< 0.0047	< 0.0061	< 0.0046	< 0.0069	< 0.0065
Tetrachloroethene	800	310	< 0.0054	< 0.0048	< 0.0052	< 0.0042	< 0.0054	< 0.0047	< 0.0061	< 0.0046	< 0.0069	< 0.0065
Trichloroethene	1200	650	< 0.0054	< 0.0048	< 0.0052	< 0.0042	< 0.0054	< 0.0047	< 0.0061	< 0.0046	< 0.0069	< 0.0065
Vinyl chloride	2600	2900	< 0.0054	< 0.0048	< 0.0052	< 0.0042	< 0.0054	< 0.0047	< 0.0061	< 0.0046	< 0.0069	< 0.0065
Depth interval exceeding C <sub>sat</sub> , feet below ground surface:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Notes:**

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C<sub>sat</sub> = Soil Saturation Concentration

Shaded Values exceeded C<sub>sat</sub>

Values that exceed C<sub>sat</sub> for Outdoor inhalation are shown in **Bold**.

PCE = Tetrachloroethene

TCE= Trichloroethene

**Table 1**

**PCE, TCE and Degradation Products Exceeding C<sub>sat</sub>**

**1807-1815 North Kimball Avenue**

**Chicago, Illinois**

Client Sample ID :	DB032224	DB041012	DB041618	DB042224	DB041618D (Duplicate)	DB052022	DB052426	DB061416	DB062224	DB071113		
Laboratory ID :	18110137-012	18110187-018	18110187-019	18110187-020	18110187-021	18110137-004	18110137-005	18110137-013	18110137-014	18110187-006		
Boring Location :	DB-03	DB-04	DB-04	DB-04	DB-04	DB-05	DB-05	DB-06	DB-06	DB-07		
Sample Interval :	22-24	10-12	16-18	22-24	16-18	20-22	24-26	14-16	22-24	11-13		
Date Collected :	11/05/2018 12:30	11/06/2018 15:00	11/06/2018 15:10	11/06/2018 15:20	11/06/2018 15:15	11/05/2018 10:20	11/05/2018 10:30	11/05/2018 12:40	11/05/2018 12:45	11/06/2018 11:30		
Soil Saturation Concentration (C <sub>sat</sub> )												
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)										
1,1-Dichloroethene	3400	2500	< 0.0050	< 0.0045	< 0.0049	< 0.0052	< 0.0050	< 0.0083	< 0.0050	0.0055	< 0.0056	< 0.0045
cis-1,2-Dichloroethene	1300	1000	< 0.0050	< 0.0045	< 0.0049	< 0.0052	< 0.0050	< 0.0083	< 0.0050	0.010	< 0.0056	0.010
trans-1,2-Dichloroethene	3000	2100	< 0.0050	< 0.0045	< 0.0049	< 0.0052	< 0.0050	< 0.0083	< 0.0050	< 0.0052	< 0.0056	< 0.0045
Tetrachloroethene	800	310	< 0.0050	< 0.0045	< 0.0049	< 0.0052	< 0.0050	< 0.0083	< 0.0050	< 0.0052	< 0.0056	< 0.0045
Trichloroethene	1200	650	< 0.0050	< 0.0045	< 0.0049	< 0.0052	< 0.0050	< 0.0083	< 0.0050	0.25	0.013	< 0.0045
Vinyl chloride	2600	2900	< 0.0050	< 0.0045	< 0.0049	< 0.0052	< 0.0050	< 0.0083	< 0.0050	0.29	< 0.0056	< 0.0045
Depth interval exceeding C <sub>sat</sub> , feet below ground surface:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Notes:**

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C<sub>sat</sub> = Soil Saturation Concentration

Shaded Values exceeded C<sub>sat</sub>

Values that exceed C<sub>sat</sub> for Outdoor inhalation are shown in **Bold**.

PCE = Tetrachloroethene

TCE= Trichloroethene

**Table 1**

**PCE, TCE and Degradation Products Exceeding C<sub>sat</sub>**

**1807-1815 North Kimball Avenue**

**Chicago, Illinois**

Client Sample ID :	DB071618	DB072224	DB081113	DB081618	DB082224	DB091113	DB091618	DB092224	DB101820	DB102628		
Laboratory ID :	18110187-007	18110187-008	18110219-008	18110219-009	18110219-010	18110137-001	18110137-002	18110137-003	18110219-001	18110219-002		
Boring Location :	DB-07	DB-07	DB-08	DB-08	DB-08	DB-09	DB-09	DB-09	DB-10	DB-10		
Sample Interval :	16-18	22-24	11-13	16-18	22-24	11-13	16-18	22-24	18-20	26-28		
Date Collected :	11/06/2018 11:35	11/06/2018 11:40	11/07/2018 13:40	11/07/2018 13:45	11/07/2018 13:50	11/05/2018 09:30	11/05/2018 09:35	11/05/2018 09:40	11/07/2018 09:00	11/07/2018 09:10		
Soil Saturation Concentration (C <sub>sat</sub> )												
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)										
1,1-Dichloroethene	3400	2500	< 0.0050	< 0.0048	< 0.0048	< 0.0048	< 0.0043	< 28	< 0.0059	< 0.0046	< 0.0047	< 0.0043
cis-1,2-Dichloroethene	1300	1000	< 0.0050	< 0.0048	0.017	< 0.0048	< 0.0043	< 28	< 0.0059	< 0.0046	< 0.0047	< 0.0043
trans-1,2-Dichloroethene	3000	2100	< 0.0050	< 0.0048	< 0.0048	< 0.0048	< 0.0043	< 28	< 0.0059	< 0.0046	< 0.0047	< 0.0043
Tetrachloroethene	800	310	< 0.0050	< 0.0048	< 0.0048	< 0.0048	< 0.0043	< 28	< 0.0059	< 0.0046	< 0.0047	< 0.0043
Trichloroethene	1200	650	< 0.0050	< 0.0048	0.016	< 0.0048	0.0071	<b>2,300</b>	0.06	< 0.0046	0.24	0.0079
Vinyl chloride	2600	2900	< 0.0050	< 0.0048	0.029	< 0.0048	< 0.0043	< 28	< 0.0059	< 0.0046	< 0.0047	< 0.0043
Depth interval exceeding C <sub>sat</sub> , feet below ground surface:		NA	NA	NA	NA	NA	11-13	NA	NA	NA	NA	NA

**Notes:**

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C<sub>sat</sub> = Soil Saturation Concentration

Shaded Values exceeded C<sub>sat</sub>

Values that exceed C<sub>sat</sub> for Outdoor inhalation are shown in **Bold**.

PCE = Tetrachloroethene

TCE= Trichloroethene

**Table 1**

**PCE, TCE and Degradation Products Exceeding C<sub>sat</sub>**

**1807-1815 North Kimball Avenue**

**Chicago, Illinois**

Client Sample ID :	DB111214	DB111820	DB112628	DB121214	DB121214D (Duplicate)	DB121820	DB122628M (MS/MSD)	DB131820	DB132426	DB141416		
Laboratory ID :	18110137-015	18110137-016	18110137-017	18110137-018	18110137-019	18110137-020	18110137-021	18110219-003	18110219-004	18110187-001		
Boring Location :	DB-11	DB-11	DB-11	DB-12	DB-12	DB-12	DB-12	DB-13	DB-13	DB-14		
Sample Interval :	12-14	18-20	26-28	12-14	12-14	18-20	26-28	18-20	24-26	14-16		
Date Collected :	11/05/2018 13:15	11/05/2018 13:25	11/05/2018 13:30	11/05/2018 14:40	11/05/2018 14:42	11/05/2018 14:45	11/05/2018 14:50	11/07/2018 10:00	11/07/2018 10:10	11/06/2018 09:00		
Soil Saturation Concentration (C <sub>sat</sub> )												
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)										
1,1-Dichloroethene	3400	2500	< 23	< 0.0050	< 0.0044	< 0.0051	< 0.0050	< 0.0051	< 0.0049	< 0.0051	< 0.0058	< 0.0049
cis-1,2-Dichloroethene	1300	1000	< 23	< 0.0050	< 0.0044	< 0.0051	< 0.0050	< 0.0051	< 0.0049	< 0.0051	< 0.0058	< 0.0049
trans-1,2-Dichloroethene	3000	2100	< 23	< 0.0050	< 0.0044	< 0.0051	< 0.0050	< 0.0051	< 0.0049	< 0.0051	< 0.0058	< 0.0049
Tetrachloroethene	800	310	< 23	< 0.0050	< 0.0044	< 0.0051	< 0.0050	< 0.0051	< 0.0049	< 0.0051	< 0.0058	< 0.0049
Trichloroethene	1200	650	<b>2,300</b>	< 0.0050	< 0.0044	< 0.0051	< 0.0050	< 0.0051	< 0.0049	0.014	0.024	< 0.0049
Vinyl chloride	2600	2900	< 23	< 0.0050	< 0.0044	< 0.0051	< 0.0050	< 0.0051	< 0.0049	< 0.0051	< 0.0058	< 0.0049
Depth interval exceeding C <sub>sat</sub> , feet below ground surface:		12-14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Notes:**

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C<sub>sat</sub> = Soil Saturation Concentration

Shaded Values exceeded C<sub>sat</sub>

Values that exceed C<sub>sat</sub> for Outdoor inhalation are shown in **Bold**.

PCE = Tetrachloroethene

TCE= Trichloroethene

**Table 1**

**PCE, TCE and Degradation Products Exceeding C<sub>sat</sub>**

**1807-1815 North Kimball Avenue**

**Chicago, Illinois**

Client Sample ID :	DB141820	DB151012	DB151618	DB152224	DB161012	DB161618	DB161618D (Duplicate)	DB162224	DB171214	DB171618		
Laboratory ID :	18110187-002	18110187-003	18110187-004	18110187-005	18110187-009	18110187-010	18110187-011	18110187-012	18110187-013	18110187-014		
Boring Location :	DB-14	DB-15	DB-15	DB-15	DB-16	DB-16	DB-16	DB-16	DB-17	DB-17		
Sample Interval :	18-20	10-12	16-18	22-24	10-12	16-18	16-18	22-24	12-14	16-18		
Date Collected :	11/06/2018 09:05	11/06/2018 10:50	11/06/2018 11:00	11/06/2018 11:15	11/06/2018 12:25	11/06/2018 12:30	11/06/2018 12:35	11/06/2018 12:45	11/06/2018 13:20	11/06/2018 13:25		
Soil Saturation Concentration (C <sub>sat</sub> )												
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)										
1,1-Dichloroethene	3400	2500	< 0.0052	< 0.0055	< 0.0043	< 0.0041	< 0.0051	< 0.0045	< 0.0049	< 0.0042	< 22	< 0.0047
cis-1,2-Dichloroethene	1300	1000	< 0.0052	< 0.0055	< 0.0043	< 0.0041	< 0.0051	< 0.0045	< 0.0049	< 0.0042	< 22	< 0.0047
trans-1,2-Dichloroethene	3000	2100	< 0.0052	< 0.0055	< 0.0043	< 0.0041	< 0.0051	< 0.0045	< 0.0049	< 0.0042	< 22	< 0.0047
Tetrachloroethene	800	310	< 0.0052	< 0.0055	< 0.0043	< 0.0041	< 0.0051	< 0.0045	< 0.0049	< 0.0042	< 22	< 0.0047
Trichloroethene	1200	650	< 0.0052	< 0.0055	< 0.0043	< 0.0041	< 0.0051	< 0.0045	< 0.0049	< 0.0042	980	0.034
Vinyl chloride	2600	2900	< 0.0052	< 0.0055	< 0.0043	< 0.0041	< 0.0051	< 0.0045	< 0.0049	< 0.0042	< 22	< 0.0047
Depth interval exceeding C <sub>sat</sub> , feet below ground surface:		NA	NA	NA	NA	NA	NA	NA	NA	NA	12-14	NA

**Notes:**

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C<sub>sat</sub> = Soil Saturation Concentration

Shaded Values exceeded C<sub>sat</sub>

Values that exceed C<sub>sat</sub> for Outdoor inhalation are shown in **Bold**.

PCE = Tetrachloroethene

TCE= Trichloroethene

**Table 1**

**PCE, TCE and Degradation Products Exceeding C<sub>sat</sub>**

**1807-1815 North Kimball Avenue**

**Chicago, Illinois**

Client Sample ID :		DB172224	DB181012	DB181618	DB182224	DB191416	DB191820	DB201012	DB201618	DB201618M (MS/MSD)	DB202426	
Laboratory ID :		18110187-015	18110219-005	18110219-006	18110219-007	18110187-016	18110187-017	18110358-006	18110358-007	18110358-008	18110358-009	
Boring Location :		DB-17	DB-18	DB-18	DB-18	DB-19	DB-19	DB-20	DB-20	DB-20	DB-20	
Sample Interval :		22-24	10-12	16-18	22-24	14-16	18-20	10-12	16-18	16-18	24-26	
Date Collected :		11/06/2018 13:30	11/07/2018 12:30	11/07/2018 12:40	11/07/2018 12:45	11/06/2018 14:20	11/06/2018 14:25	11/08/2018 14:00	11/08/2018 14:15	11/08/2018 14:16	11/08/2018 14:30	
Soil Saturation Concentration (C <sub>sat</sub> )												
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)										
1,1-Dichloroethene	3400	2500	< 0.0049	< 26	< 0.0046	< 0.0060	< 0.0051	< 0.0048	< 0.0048	< 0.0048	< 0.0038	< 0.0040
cis-1,2-Dichloroethene	1300	1000	< 0.0049	31	< 0.0046	< 0.0060	< 0.0051	< 0.0048	0.014	< 0.0048	< 0.0038	< 0.0040
trans-1,2-Dichloroethene	3000	2100	< 0.0049	< 26	< 0.0046	< 0.0060	< 0.0051	< 0.0048	< 0.0048	< 0.0048	< 0.0038	< 0.0040
Tetrachloroethene	800	310	< 0.0049	< 26	< 0.0046	< 0.0060	< 0.0051	< 0.0048	< 0.0048	< 0.0048	< 0.0038	< 0.0040
Trichloroethene	1200	650	< 0.0049	<b>3,200</b>	0.12	0.013	< 0.0051	< 0.0048	< 0.0048	< 0.0048	< 0.0038	< 0.0040
Vinyl chloride	2600	2900	< 0.0049	< 26	< 0.0046	< 0.0060	< 0.0051	< 0.0048	0.017	< 0.0048	< 0.0038	< 0.0040
Depth interval exceeding C <sub>sat</sub> , feet below ground surface:		NA	10-12	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Notes:**

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C<sub>sat</sub> = Soil Saturation Concentration

Shaded Values exceeded C<sub>sat</sub>

Values that exceed C<sub>sat</sub> for Outdoor inhalation are shown in **Bold**.

PCE = Tetrachloroethene

TCE= Trichloroethene

**Table 1****PCE, TCE and Degradation Products Exceeding C<sub>sat</sub>**

1807-1815 North Kimball Avenue

Chicago, Illinois

		Client Sample ID : DB202426D (Duplicate)	DB211820	DB212325	DB221012	DB221618	DB222426
Laboratory ID :		18110358-010	18110358-004	18110358-005	18110358-001	18110358-002	18110358-003
Boring Location :		DB-20	DB-21	DB-21	DB-22	DB-22	DB-22
Sample Interval :		24-26	18-20	23-25	10-12	16-18	24-26
Date Collected :		11/08/2018 14:31	11/08/2018 12:00	11/08/2018 12:15	11/08/2018 10:40	11/08/2018 10:50	11/08/2018 11:00
		Soil Saturation Concentration (C <sub>sat</sub> )					
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)					
1,1-Dichloroethene	3400	2500	< 0.0038	< 0.0055	< 0.0041	< 0.0049	< 0.0048
cis-1,2-Dichloroethene	1300	1000	< 0.0038	< 0.0055	< 0.0041	0.0082	< 0.0048
trans-1,2-Dichloroethene	3000	2100	< 0.0038	< 0.0055	< 0.0041	< 0.0049	< 0.0048
Tetrachloroethene	800	310	< 0.0038	< 0.0055	< 0.0041	< 0.0049	< 0.0048
Trichloroethene	1200	650	< 0.0038	< 0.0055	< 0.0041	< 0.0049	< 0.0048
Vinyl chloride	2600	2900	< 0.0038	< 0.0055	< 0.0041	0.023	< 0.0048
Depth interval exceeding C <sub>sat</sub> , feet below ground surface:			NA	NA	NA	NA	NA

**Notes:**

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C<sub>sat</sub> = Soil Saturation ConcentrationShaded Values exceeded C<sub>sat</sub>Values that exceed C<sub>sat</sub> for Outdoor inhalation are shown in **Bold**.

PCE = Tetrachloroethene

TCE= Trichloroethene