TETRA TECH

Reserve Management Group (RMG) Site Human Health Risk Assessment

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Department of Public Health

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Date: April 28, 2021

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1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech) was tasked by the Chicago Department of Public Health (CDPH) to prepare a Human Health Risk Assessment (HHRA) for the Reserve Management Group (RMG) Site (the Site) located in Chicago, Illinois. The goal of the HHRA is to assess human health impacts from onsite operations and environmental impacts on potential human receptors including residents and anglers in the surrounding neighborhoods. The HHRA was conducted consistent with the Environmental Protection Agency (EPA) guidance *Final Human Health Risk Assessment Protocol (HHRAP) for Hazardous Waste Combustion Facilities guidance* (EPA 2005), incorporates the latest exposure and toxicity information (EPA 2021a), and utilizes additional EPA guidance to augment the HHRAP guidance as applicable. This HRRA will be included in a Health Impacts Assessment (HIA) prepared by CDPH.

This HHRA for the Site summarizes the site background, the conceptual site model, technical approach, results, and identifies assumptions and uncertainties associated with the HHRA.

2.0 SITE BACKGROUND

This section describes the location and layout, history and operations of the Site, and a description of the neighborhood surrounding the Site.

2.1 SITE LOCATION AND LAYOUT

The Site is an approximately 136-acre area located at 11554 S. Avenue O in Chicago, Cook County, Illinois (Figure 1). The site is bounded to the north by industrial properties; to the east by S. Burley Avenue with industrial properties, businesses and residences beyond; to the south by industrial properties; and to the west by the Calumet River. The Site is comprised of several recycling facilities owned and operated by various companies (Figure 2). RMG recently purchased property at the Site and developed a modern recycling facility, Southside Recycling, on the north central portion of the Site; the Southside Recycling facility is not yet operational. The Site also includes the Reserve Marine Terminal FTL LLC (RMT), Napuck Salvage of Waupaca (NSW), South Shore Recycling LLC (SSR), and Regency Technologies facilities, whose operations are described below in Section 2.2.

2.2 SITE HISTORY AND OPERATIONS

Prior to use as a metals recycling facility, the Site was the location of the Republic Steel Corporation's 114th Street and 118th Street plants. The plants contained multiple rail spurs, above ground storage tanks containing various hazardous materials, furnaces and cooling pits, mills, and slag and material storage. Other former owners of the site include LTV Steel, which utilized the Site for coke production. Historical Sanborn Fire Insurance Maps depicting historical Site use are provided in Attachment 1. The Site has been utilized for metals recycling operations since at least 2004.

As part of the HIA development, CDPH compiled sources of significant emissions related to operations at the Site; emissions source areas are identified on Figure 2. Emissions source areas were grouped by 1) operational use and 2) the companies operating at the Site. Southside Recycling is not currently operating.

- RMT's operations at the Site include the handling of ferrous and non-ferrous metal scrap. RMT also handles foundry sand at the south end of the Site and operates a marine terminal and stores materials along the Calumet River. Scrap metal processing occurs at Areas A, B, C, and D and includes shearing, cutting, breaking, and hammering; foundry sand handling occurs at Areas E, F, and G (Figure 2). Materials from RMT operations are hauled, loaded, and unloaded across the Site via paved and unpaved haul roads.

- NSW's operations at the Site include handling aluminum scrap, mixed metal scrap, and auto casts. Zorba, a mixture of copper and aluminum materials, is received and stockpiled in Area H. Aluminum and mixed metal scrap is received and processed in Areas I, L, M, N, O, and P inside a warehouse building. Auto cast materials are unloaded and stockpiled at Areas J and K (Figure 2). Materials from NSW operations are hauled, loaded, and unloaded across the site via railway and truck traffic over paved and unpaved haul roads.

- SSR accepts scrap metal recyclables from junk peddlers and other businesses. Recyclables include ferrous and non-ferrous metal scrap, motor vehicle parts, batteries, and motor vehicles. Emission sources include truck traffic via paved and unpaved surfaces, the loading and unloading of materials outdoors, and torch-cutting.

- Regency Technologies accepts and recycles small used electronics. Emission sources for Regency Technologies are limited to truck traffic via paved and unpaved roadways.

2.3 SURROUNDING NEIGHBORHOOD

The Site is located near the East Side, Hegewisch, and South Deering (including Trumbull Park and Trumbull Park Homes) neighborhoods of Chicago. The neighborhoods are three of the 77 official community areas of Chicago, Illinois; Trumbull Park is located within South Deering. They are located on the far south side of the city between Interstate 94 and the Indiana state line, approximately 15 miles south of downtown Chicago.

Most of the East Side neighborhood was built north of 108th Street by the 1930s, with expansion to the south as new industries opened along the Calumet River. The East Side has a history of heavy industry, including the Republic Steel mill site. The population of the East Side neighborhood is approximately 22,000 and is primarily Hispanic (East Side, Chicago, Wikipedia, n.d.).

Like the East Side neighborhood, Hegewisch began as a residential area for industrial workers and their families and now has a population of approximately 10,000 (primarily Hispanic and Black). While Hegewisch is developed with single- and multi-family homes, it is also home to major industrial facilities such as the Ford Assembly Plant and KCBX Terminals. Hegewisch is also home to Wolf Lake, a popular fishing location for anglers in the area (Hegewisch, Chicago, Wikipedia, n.d.).

Many of the homes in South Deering are Chicago-style bungalows, and the southeast portion of South Deering contains many newer homes built after 1980. The current population of South Deering is approximately 14,000, with 97% of the population being Black or Hispanic (South Deering, Chicago, Wikipedia, n.d.). Trumbull Park Homes is a Chicago Housing Authority (CHA) public housing project located in the South Deering neighborhood, northwest of the Site. Trumbull Park is bounded by 105th and 109th Streets and by Bensley and Oglesby Avenues (Trumbull Park, Chicago, Wikipedia, n.d.).

3.0 CONCEPTUAL SITE MODEL

This section presents the Conceptual Site Model (CSM) for potential exposure pathways for human receptors near the Site. The CSM provides an understanding of how contaminants of potential concern (COPC) are transported from the Site and associated truck traffic via dispersion through ambient air and subsequent deposition to the soils, sediments, and surface water in the region, and how as a consequence, human receptors may potentially be exposed to these contaminants.

The CSM identifies potentially complete exposure pathways by which potential receptors may encounter site-related COPCs. The CSM is used throughout the HIA to (1) provide a framework for addressing potential risks, (2) evaluate the need for additional data acquisition activities, (3) quantify potential human health risks, and (4) evaluate the need for corrective measures. The CSM is presented in Figure 3.

As defined in *Risk Assessment Guidance for Superfund (RAGS) Part A* (EPA 1989), the following four elements are necessary to form a complete exposure pathway:

- A source or release from a source;
- A mechanism of release and transport;

- A point of contact for potential receptors; and
- An exposure route.

If any of the four elements is missing, the exposure pathway is considered incomplete. Generally, only potentially complete exposure pathways will be evaluated at the Site. The four elements and their evaluation for the Site are discussed in the sections below.

3.1 SOURCE OR RELEASE FROM A SOURCE AND MECHANISM OF RELEASE AND TRANSPORT

This section addresses the first two elements (a source or release from a source and a mechanism of release and transport) with a summary of identified exposure sources found at the Site as follows:

> ***Stockpiled Materials and Foundry Sand:*** Stockpiled materials and foundry sand stored onsite and outdoors may release fugitive dust and vapors to ambient air as the result of material handling activities and wind erosion. The RMT operation at the south end handles foundry sand. The Southside Recycling operation at the north end handles scrap metal.
>
> ***Material Loading and Unloading:*** Unloading and loading of materials from trucks, trains, barges, and site equipment such as front-loaders may lead to the release of fugitive dust and vapors to ambient air and these activities occur throughout the Site.
>
> ***Onsite Operations:*** Onsite operations (other than material loading and unloading) include but are not limited to crushing, shearing, sorting, and torch cutting. These activities may release fugitive dust and vapors to ambient air throughout the Site. Indoor operations, including crushing and sorting, may release fugitive dust through vents or may be tracked outdoors by machinery.
>
> ***Facility Mobile Equipment and Associated Trucks:*** Truck traffic related to Site operations may track Site soils onto road surfaces beyond the Site property, and the movement of motor vehicles and mobile equipment over paved and unpaved surfaces may release fugitive dust to ambient air. Further, diesel exhaust emissions from trucks and mobile equipment operating or idling on-site or near the Site may release vapors and particulates.

These air emissions are potentially transported from the Site to receptors via dispersion and subsequent deposition to soils.

3.2 POTENTIAL RECEPTORS AND EXPOSURE POINTS

Receptors reasonably anticipated or assumed to be exposed to site-related constituents in environmental media were identified based on the information presented above and are described in this section. Receptors identified are all within Chicago or the greater Chicagoland area and are assumed to receive their drinking water from Lake

Michigan; the City of Chicago has a groundwater ordinance in place since 1997 prohibiting the installation of new potable water supply wells. Due to the vast size of Lake Michigan and the distance to the drinking water intake, the impact of Site air emissions to drinking water via deposition to Lake Michigan is assumed to be negligible. Additionally, the HHRAP guidance does not recommend evaluation of groundwater consumption since it is typically an insignificant exposure pathway for emissions deposition (EPA 2005). Therefore, the drinking water exposure pathway will not be evaluated in the HHRA.

The potential current and future receptors in the vicinity of the Site are described as follows:

Adult and Child Residents (Current/Future): Presently, residential neighborhoods are located to the east (East Side), south (Hegewisch), and northwest (Trumbull Park Homes) of the Site. It is assumed that adult and child residents are potentially exposed to COPCs from the Site via:

- Direct inhalation of vapors and particles;
- Incidental ingestion of soil;
- Ingestion of homegrown produce; and
- Ingestion of breastmilk (infants only).

Residents may inhale vapors and particulates containing COPCs while at their homes and may consume incidental amounts of soil impacted by aerial deposition. Additionally, residents may be exposed if they consume homegrown fruits and vegetables. Adults and children are assumed to be exposed through the same exposure pathways, with the exception of the ingestion of breastmilk (infants only).

Adult and Child Anglers (Current/Future): Wolf Lake is approximately 1.2 miles east of the Site and is a popular fishing location for anglers in the region. Other water bodies were considered, including the Calumet River and Lake Michigan. While the Calumet River is adjacent to the Site and located within the study area, the river bank is generally inaccessible for anglers, particularly near the Site. The river is also known to be heavily polluted (USGS 1997). These factors are expected to limit anglers at the Calumet River. Additionally, Lake Michigan is approximately 1.8 miles northeast of the Site. Due to the large volume of Lake Michigan, the deposition of particulates from the Site is unlikely to significantly impact aquatic life that would be caught by anglers in Lake Michigan. Therefore, Wolf Lake was selected as the most likely location for anglers to be potentially exposed to Site COPCs. Since Wolf Lake is a popular regional fishing site, some anglers are assumed to not reside in the area. Wolf Lake anglers are exposed to COPCs from the site via:

- Ingestion of fish.

Anglers are assumed to catch sufficient fish to provide the family with a portion of their protein.

Adult and Child Resident Anglers (Current/Future): Some adult and child residents who reside near the Site are assumed to also fish at Wolf Lake. This receptor represents the sum total of the risk of residential and angler exposures. The adult and child resident anglers are potentially exposed to COPCs from the Site via:

- Direct inhalation of vapors and particles;
- Incidental ingestion of soil;
- Ingestion of homegrown produce;
- Ingestion of breastmilk (infants only); and
- Ingestion of fish.

Resident anglers may inhale vapors and particulates containing COPCs while at their homes and may consume incidental amounts of soil impacted by aerial deposition. Additionally, resident anglers may be exposed if they consume homegrown fruits and vegetables, and fish caught at Wolf Lake. Adults and child anglers are assumed to be exposed through the same exposure pathways.

Commercial and Industrial Workers (Current/Future): Multiple industrial and commercial facilities are located in the vicinity of the site. However, commercial and industrial workers will not be evaluated as part of this HHRA, which will be focused instead on the more conservative and health-protective exposure pathways for residential receptors.

Sensitive Population Point Receptors (Current/Future): To protect public health, the HHRA must consider factors that impact risk estimates for vulnerable populations, especially if the vulnerable population under consideration is a substantial proportion of the overall population. For this reason, sensitive receptor population requires special consideration in risk assessment. For the purpose of this HHRA, 257 schools, daycares, parks, medical facilities, libraries, and churches located near the Site were identified by CDPH for consideration; the full list of 257 sensitive receptors is provided in Appendix A. Based on preliminary calculations of 1-hour air, chronic air, and soil concentrations, five to seven of these sensitive receptors were selected for evaluation in the HHRA. To conservatively assess the risk to sensitive receptors, residential receptor exposure factors and pathways are used as a surrogate for these sensitive point receptors.

4.0 TECHNICAL APPROACH

The HHRA was conducted consistent with the procedures described in the HHRAP guidance (EPA 2005), incorporating the latest exposure and toxicity information (EPA 2021a), and utilizing additional EPA guidance to augment the HHRAP guidance, as applicable. For the risk assessment, relevant facility information was compiled and considered (see Sections 2.0 and 3.0). Subsequent analyses identified relevant emission sources and their respective emission rates. Surface soil samples were collected from identified source areas in December 2021 to (1) evaluate the current levels of metals and other site-related COPCs present in the surface soil and (2) obtain representative input concentrations for dispersion and emission rate modeling to support the HHRA. Validated analytical results from the December 2021 sampling event are provided in Appendix B. Data Validation Reports are provided in Appendix B-1 and a summary table of validated results is provided in Appendix B-2.

COPCs were selected for the risk assessment based on screening source analytical data against media-specific (soil) screening values. The screening values for soils are based on a conservative approach using EPA residential soil Regional Screening Levels (RSLs) with hazard quotient (HQ) of 0.1 and target risk of 1E-06 (EPA 2021a). The EPA residential soil RSLs consider the direct contact and incidental ingestion exposure pathways, as well as inhalation of volatiles and particulates. Only COPCs with maximum concentrations exceeding RSLs for any of the sources were retained for quantitative risk evaluation at all sources; detected COPCs with concentrations less than the RSLs were not quantitatively evaluated. Additionally, in accordance with Illinois Environmental Protection Agency's (IEPA) methodology of including all compounds with similar-acting carcinogenic compounds and using best professional judgement to take a health-protective approach, all carcinogenic PAHs were retained for quantitative evaluation (IAC 2013). In addition to COPCs selected from soil analytical data, diesel particulate matter was selected as a COPC. Diesel engine exhaust is generated by trucks and heavy machinery onsite. Methyl mercury and mercuric chloride are included as COPCs in accordance with the HHRAP guidance, which recommends evaluating three species of mercury: elemental mercury, mercuric chloride, and methyl mercury (EPA 2005). COPCs retained for quantitative evaluation are presented in Table 1 below.

Table 1
Contaminants of Potential Concern Retained for Quantitative Evaluation

Analyte	CAS Number	Selection Criteria
Arsenic	7440-38-2	ASC
Benzo(a)pyrene	50-32-8	ASC
Benzo(a)anthracene	56-55-3	ASC
Benzo(b)fluoranthene	205-99-2	ASC
Benzo(k)fluoranthene	207-08-9	CPAH
Cadmium	7440-43-9	ASC
Chrysene	218-01-9	CPAH
Cobalt	7440-48-4	ASC
Dibenz(a,h)anthracene	53-70-3	ASC
Indeno(1,2,3-cd)pyrene	193-39-5	ASC
Iron	7439-89-6	ASC
Lead	7439-92-1	ASC
Manganese	7439-96-5	ASC
Mercuric Chloride	7487-94-7	HHRAP
Mercury	7439-97-6	ASC
Methyl Mercury	22967-92-6	HHRAP
Nickel	7440-02-0	ASC
PCB-1248	12672-29-6	ASC
Total TEQ	1746-01-6	ASC
Diesel Engine Exhaust	E17136615	--

Notes:
-- - Not selected from soil analytical data; selected based on presence and use of trucks and heavy machinery onsite
ASC – Above screening criteria
CAS – Chemical abstract service

CPAH – Carcinogenic polycyclic aromatic hydrocarbon
HHRAP – Included as recommended by HHRAP guidance
PCB – Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

HHRAP Guidance suggests that in order to evaluate both acute and chronic reasonable maximum exposure (RME) estimates, the potential emissions evaluated in the risk assessment need to be based on actual operating scenarios that may occur under the terms of the permit. Sources deemed relevant (i.e., those determined to potentially have an ambient impact) were identified. Specifically: (1) fugitive dust generated from vehicular traffic traveling onsite on unpaved roads, (2) fugitive dust generated inside onsite buildings that could escape identified openings such as roof vents and doors, (3) wind-driven fugitive dust generated from onsite storage piles or agitation from onsite operations, (4) fugitive dust and engine exhaust generated from vehicles traveling to and from the site at identified intersections, and (5) fugitive dust and engine exhaust from onsite miscellaneous operations associated with onsite mobile equipment idling and moving. Fugitive vapors from on-site sources were deemed to be negligible and were not included in the model.

The current EPA-preferred regulatory model, the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD), was used to model dispersion from the site. AERMOD is a steady-state Gaussian dispersion model designed for short-range (≤50 kilometers) dispersion of air pollutant emission and stationary industrial sources (EPA 2017, EPA 2021b). AERMOD simulates the transport, dispersion, and deposition of air emissions from multiple point, area, or volume sources based on an up-to-date characterization of the atmospheric boundary layer. The model is an integrated system that includes meteorological data, terrain, and building wake effects processors. The model uses hourly meteorological data to simulate pollutant transport from emissions sources to designated receptors throughout a modeling domain surrounding the facility being modeled. EPA guidance suggests the calculation of ground-level concentrations at a facility's identified property line and beyond to a distance adequate to evaluate exposure to air emissions from the facility being evaluated. For this project, receptors were placed along the property line and extend at various intervals in a nested Cartesian grid to a distance of approximately 5,500 meters from the facility. Additional "discrete" receptors, representing the sensitive receptor locations (parks, daycares, etc.) were added to the grid. In all, the model calculated ambient concentrations at 3,284 receptors. The grid is sufficiently dense, giving assurance that the maximum-modeled concentrations and their locations, are identified. AERMOD emission source locations are presented in Figure 4a and AERMOD receptor locations are presented in Figure 4b. The deposition model and emission rates were then uploaded into Lakes Environmental IRAP-h software, a comprehensive multi-pathway risk assessment program that implements the 2005 HHRAP guidance (Lakes Environmental, 2019).

Default exposure factors in IRAP-h software for receptors were used with the exception of body weight, which was updated for adults and children in accordance with the 2011 EPA Exposure Factor Handbook update (EPA 2011), and fraction intake for fish from Wolf Lake, which was estimated to be 0.25 based on professional judgement. IRAP-h receptor-specific exposure factors are provided in Appendix C.

All receptors were evaluated under acute and chronic RME conditions. The acute scenario considers the highest 1-hour average air concentration from each emission source and is representative of worst-case scenario, short-term effects due to Site-related airborne contamination. The chronic RME scenario sets exposure factors such as exposure frequency and exposure duration at the high-end (i.e., near the 90^{th} percentile), which results in a conservative, yet reasonable, output (EPA 1989, EPA 2005). Hydraulic and hydrogeologic parameters for Wolf Lake were obtained from a Hydrologic and Hydraulic Analysis conducted in 2002 (Tetra Tech 2002).

Toxicity factors in IRAP-h software were also updated as necessary, based on the most current toxicity values were obtained from the following hierarchy of sources in accordance with the EPA Office of Superfund Remediation and Technology Innovation (EPA, 2003)

- Tier 1 – IRIS
- Tier 2 - Provisional Peer-Reviewed Toxicity Values (PPRTVs).
- Tier 3 – Other (Peer Reviewed) Values, including: Agency for Toxic Substances and Disease Registry (ATSDR), Minimal Risk Levels (MRLs); California Environmental Protection Agency (CalEPA) values; values from Appendices to the PPRTV support documents (PPRTV-A); and Health Effects Assessment Summary Tables (HEAST)

EPA publishes toxicity values based on this hierarchy with the RSL table and updates these values biannually. The most current RSL table was utilized to obtain chronic toxicity values (EPA 2021a). Acute toxicity factors were obtained from the US Department of Energy's (DOE) Protective Action Criteria (PAC), which are threshold 60-minute exposure limits for the general public developed for emergency response scenarios (DOE 2018). Chronic and acute toxicity data for COPCs are provided in Appendix D.

Initial IRAP-h runs were conducted for receptors placed at 100-meter (m) and 500-m grid nodes throughout the entire modeling domain to identify areas of maximal calculated risk. Subsequent iterative IRAP-h runs were conducted with a reduced number of receptors that focus on those with maximal calculated risk, which reduces computation time and more efficiently calculates risk at those receptors that require more detailed assessment. Based on these results, two sensitive receptor locations and eight grid receptor locations were selected based on 1) maximal calculated non-cancer hazard or non-cancer risk, 2) maximal calculated COPC concentration in air and soils, and 3) proximity of sensitive receptors to the Site. One Wolf Lake receptor location was selected to represent anglers only exposed via the fish ingestion pathway. IRAP-h modeled media concentrations for the final receptors are provided in Appendix E; soil concentrations are presented in Table E-1 and acute and chronic air concentrations are presented in Table E-2. Final IRAP-h receptor locations are presented in Figure 5.

5.0 RISK CHARACTERIZATION

Using IRAP-h, COPC concentrations and exposure assumptions were used to estimate potential carcinogenic and non-carcinogenic health risks. The EPA acceptable cancer risk range of 1 in 1 million to 1 in 10,000 (i.e., 1E-06 to 1E-04) was used as the benchmark for identify potentially unacceptable risks. Chemical-specific hazard quotients (HQs) were summed to yield a multiple-chemical hazard index (HI). The HI serves as a conservative summary of pathway and receptor non-cancer risks, since summing all the individual COPC HQs incorporates the assumption that their risks are all additive, when in fact, different COPCs are expected to act through different mechanisms and on different target organs. The overall HIs are useful for rapidly identifying pathways or receptors with negligible potential for non-cancer effects (where all the COPC HQs added together do not exceed an HI of 1). The EPA acceptable hazard threshold, i.e., HI of 1, was used as the benchmark for identifying potentially unacceptable risks.

5.1 RISK CHARACTERIZATION RESULTS

The following subsections discuss the risk characterization results for each receptor location and receptor type. Toxicity factors used to calculate chronic carcinogenic risk and acute and chronic non-carcinogenic hazard are provided in Appendix D. Chemical cancer risks and non-cancer hazards by receptor are provided in Tables F-1-A through F-1-K, and a summary of receptor risks and hazards are provided in Table F-2 of Appendix F. Two sensitive receptor locations, eight grid receptor locations, and one Wolf Lake receptor location were identified for risk characterization based on the process detailed in Section 4.0 above. Grid receptor locations were selected on either side of Avenue O to characterize the risk in both 1) the maximal observed locations on the west side of Avenue O (which is currently industrial, undeveloped land) and 2) the maximal observed locations on the east side of Avenue O in the current residential neighborhood. Residential receptors were used to evaluate sensitive receptor and grid receptor locations, and the site-specific angler receptor was used to evaluate Wolf Lake anglers. Residential anglers were evaluated at each grid receptor location by summing the residential receptor risks and hazards and the site-specific angler fish ingestion risks and hazards. All receptor locations are depicted in Figure 5.

Rowan Park (Sensitive Receptor Location)

Rowan Park was identified as the sensitive receptor location with the highest maximum cancer risk, maximum chronic hazard index, maximum soil concentration, and maximum air concentration. The chemical cancer risks and non-cancer hazards for Rowan Park are provided in Table F-1-A.

- The cumulative cancer risk based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 5E-07 for child residents to 1E-06 for adult residents. The cancer risk for adult residents is equal to the 1E-06 (1 in 1,000,000) threshold, which is the low end of the EPA acceptable risk range of 1E-06 to 1E-04. No individual COPCs have a cancer risk greater than 1E-06.
- The cumulative HI based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 0.004 for acute receptors to 0.2 for child residents. All calculated HIs were below the threshold of 1.

Day Care (Sensitive Receptor Location)

The Day Care located on the southeast corner of East 116th Street and South Ewing Avenue was identified as the sensitive receptor location with the highest acute hazard index. The chemical cancer risks and non-cancer hazards for the Day Care are provided in Table F-1-B.

- The cumulative cancer risk based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 2E-07 for child residents to 7E-07 for adult residents. These risks are less than 1E-06 and are considered insignificant.
- The cumulative HI based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 0.005 for acute receptors to 0.1 for child residents. All calculated HIs were below the threshold of 1.

Grid Receptor Location 01GRP04

Grid receptor location 01GRP04 represent the maximum chronic air concentration west of Avenue O. The chemical cancer risks and non-cancer hazards for 01GRP04 are provided in Table F-1C.

- The cumulative cancer risk based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 8E-07 for child residents to 2E-06 for adult residents. While the cancer risk for adult residents is above the 1E-06 (1 in 1,000,000) threshold, it is within, but at the low end of the EPA acceptable risk range of 1E-06 to 1E-04. No individual COPCs have a cancer risk greater than 1E-06.
- The cumulative HI based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 0.007 for acute receptors to 0.4 for child residents. All calculated HIs were below the threshold of 1.

Grid Receptor Location 01GRP05

Grid receptor location 01GRP05 represent the maximum chronic air concentration east of Avenue O. The chemical cancer risks and non-cancer hazards for 01GRP05 are provided in F-1-D.

- The cumulative cancer risk based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 6E-07 for child residents to 2E-06 for adult residents. While the cancer risk for adult residents is above the 1E-06 (1 in 1,000,000) threshold, it is within, but at the low end of the EPA acceptable risk range of 1E-06 to 1E-04. No individual COPCs have a cancer risk greater than 1E-06.
- The cumulative HI based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 0.006 for acute receptors to 0.3 for child residents. All calculated HIs were below the threshold of 1.

Grid Receptor Location 02GRP04

Grid receptor location 02GRP04 represents the maximal cancer risk location and maximal soil concentrations west of Avenue O. The chemical cancer risks and non-cancer hazards for 02GRP04 are provided in Table F-1-E.

- The cumulative cancer risk based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 8E-07 for child residents to 2E-06 for adult residents. While the cancer risk for adult residents is above the 1E-06 (1 in 1,000,000) threshold, it is within, but at the low end of the EPA acceptable risk range of 1E-06 to 1E-04. No individual COPCs have a cancer risk greater than 1E-06.
- The cumulative HI based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 0.006 for acute receptors to 0.4 for child residents. All calculated HIs were below the threshold of 1.

Grid Receptor Location 02GRP05

Grid receptor location 02GRP05 represents the maximal cancer risk location and maximal soil concentrations east of Avenue O. The chemical cancer risks and non-cancer hazards for 02GRP05 are provided in Table F-1-F.

- The cumulative cancer risk based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 6E-07 for child residents to 1E-06 for adult residents. The cancer risk for adult residents is equal to the 1E-06 (1 in 1,000,000) threshold, which is the low end of the the EPA acceptable risk range of 1E-06 to 1E-04. No individual COPCs have a cancer risk greater than 1E-06.
- The cumulative HI based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 0.005 for acute receptors to 0.3 for child residents. All calculated HIs were below the threshold of 1.

Grid Receptor Location 03GRP04

Grid receptor location 03GRP04 represents the maximal acute hazard and acute air concentration west of Avenue O. The chemical cancer risks and non-cancer hazards for 03GRP04 are provided in Table F-1-G.

- The cumulative cancer risk based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 7E-07 for child residents to 2E-06 for adult residents. While the cancer risk for adult residents is above the 1E-06 (1 in 1,000,000) threshold, it is within, but at the low end of the EPA acceptable risk range of 1E-06 to 1E-04. No individual COPCs have a cancer risk greater than 1E-06.
- The cumulative HI based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 0.01 for acute receptors to 0.5 for child residents. All calculated HIs were below the threshold of 1.

Grid Receptor Location 03GRP05

Grid receptor location 03GRP05 represents the maximal acute hazard and acute air concentration east of Avenue O. The chemical cancer risks and non-cancer hazards for 03GRP05 are provided in Table F-1-H.

- The cumulative cancer risk based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 6E-07 for child residents to 2E-06 for adult residents. While the cancer risk for adult residents is above the 1E-06 (1 in 1,000,000) threshold, it is within, but at the low end of the EPA acceptable risk range of 1E-06 to 1E-04. No individual COPCs have a cancer risk greater than 1E-06.
- The cumulative HI based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 0.01 for acute receptors to 0.4 for child residents. All calculated HIs were below the threshold of 1.

Grid Receptor Location 05GRP04

Grid receptor location 05GRP04 represents the maximal chronic hazard west of Avenue O. The chemical cancer risks and non-cancer hazards for 05GRP04 are provided in Table F-1-I.

- The cumulative cancer risk based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 6E-07 for child residents to 2E-06 for adult residents. While the cancer risk for adult residents is above the 1E-06 (1 in 1,000,000) threshold, it is within, but at the low end of the EPA acceptable risk range of 1E-06 to 1E-04. No individual COPCs have a cancer risk greater than 1E-06.
- The cumulative HI based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 0.01 for acute receptors to 0.5 for child residents. All calculated HIs were below the threshold of 1.

Grid Receptor Location 05GRP05

Grid receptor location 05GRP05 represents the maximal chronic hazard east of Avenue O. The chemical cancer risks and non-cancer hazards for 05GRP05 are provided in Table F-1-J.

- The cumulative cancer risk based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 5E-07 for child residents to 1E-06 for adult residents. While the cancer risk for adult residents is above the 1E-06 (1 in 1,000,000) threshold, it is equal to the low end of the EPA acceptable risk range of 1E-06 to 1E-04. No individual COPCs have a cancer risk greater than 1E-06.
- The cumulative HI based on inhalation, above-ground produce ingestion, and soil ingestion ranges from 0.01 for acute receptors to 0.4 for child residents. All calculated HIs were below the threshold of 1.

Resident Angler (All Grid Receptor Locations)

At each grid receptor location, the resident angler receptor was evaluated. Resident angler chemical cancer risks and non-cancer hazards for each grid receptor are provided in Tables F-1-C through F-1-J.

- The cumulative cancer risk based on inhalation, above-ground produce ingestion, soil ingestion, and fish ingestion ranges from 5E-07 for child resident anglers at 05GRP05 to 2E-06 for adult resident anglers at 03GRP04. While the maximum cancer risk for adult resident anglers is above the 1E-06 (1 in 1,000,000) threshold, it is within, but at the low end of the EPA acceptable risk range of 1E-06 to 1E-04. No individual COPCs have a cancer risk greater than 1E-06.
- The cumulative HI based on inhalation, above-ground produce ingestion, soil ingestion, and fish ingestion rangers from 0.2 for adult resident anglers at 02GRP05 to 0.5 for child resident anglers at 03GRP04, and adult and child resident anglers at 05GRP04. All calculated HIs were below the threshold of 1.

Wolf Lake Angler

Wolf Lake was identified as the most likely location for anglers to be potentially exposed to site COPCs. The chemical cancer risks and non-cancer hazards for the fish ingestion pathway for Wolf Lake anglers are provided in Table F-1-K.

- The cumulative cancer risk based on fish ingestion ranges from 4E-08 for child anglers to 3E-07 for adult anglers. These risks are less than 1E-06 and are considered insignificant.
- The cumulative HI based on fish consumption ranges from 0.01 for child anglers to 0.02 for adult anglers. All calculated His were below the threshold of 1.

6.0 UNCERTAINTY ASSESSMENT

Uncertainties are inherent in all risk assessments even when using the most accurate data and the most sophisticated models. Uncertainties in data, input parameters, modeling and analyses can enter the risk assessment process at every step. Uncertainties for the risk assessment include selection of COPCs, use of residential receptors as surrogates for sensitive receptors, use of IRAP-h default exposure values, exclusion of dermal and drinking water pathways, changes in on-site operations, area industrial sources, and limitations of dispersion modeling. These uncertainties and their overall impact on the risk assessment are discussed below.

COPCs were selected for the risk assessment by screening analytical data against media-specific risk-based screening values. COPCs selection followed protocols outlined in the 2005 HHRAP and 1994 EPA Technical Guidance for Evaluating and Identifying Contaminants of Concern for Human Health (EPA 1994, EPA 2005). To conservatively select COPCs for inclusion, analytical results were compared to EPA Residential Soil RSLs with HQ of 0.1 and target risk of 1E-06 (EPA 2021a). COPCs with concentrations exceeding RSLs at any source area were retained for qualitative risk evaluation for the entire site. Several analytes were not detected but had laboratory quantitation limits exceeding the RSLs (Aroclor-1254, 2,4-Dinitrophenol, 2,6-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, Bis(2-chloroethyl)ether, Hexachlorobenzene, Hexachlorocyclopentadiene, n-Nitrosodi-n-propylamine, Pentachlorophenol, 4-Chloroaniline, and Hexachlorobutadiene). Due to the conservative approach of using residential screening criteria for COPC selection, low detection frequency, and low potential to significantly contribute to risk compared to metals such as lead and manganese, risk from exposure to these analytes is likely negligible and they were not retained for quantitative evaluation. As a result, uncertainty in the risk assessment attributable to COPC selection is low.

Another source of uncertainty stems from the decision to use residential receptors as surrogates for sensitive receptors (i.e. school students and staff, nursing home residents and staff, etc.). Instead of using receptor-specific exposure factors for each sensitive receptor, default residential exposure factors were used to conservatively estimate risk to adults and children. The residential receptor accounts for 24 hour per day exposure continuously for 30 years and evaluates the ingestion of homegrown produce exposure pathway. Sensitive receptors at locations such as daycares, schools, hospitals, and nursing homes are unlikely to be exposed for such long durations or to grow and ingest produce onsite. Therefore, the use of residential receptors as surrogates for these sensitive receptors likely results in an overestimation of risks and hazards and is considered a high source of uncertainty in the risk assessment.

Default exposure values included in the IRAP-h software were used to model risk and hazards in lieu of developing site-specific parameters. Site-specific factors, if used, would provide more realistic estimates of risk and hazard ranges. Considerable differences may exist between homegrown produce and ingestion rates between communities. For example, the fraction of contaminated fish from Wolf Lake ingested by anglers and resident anglers of 25% was based on professional judgement and is assumed to be a conservative estimate. The use of default exposure factors is a high source of uncertainty to the risk assessment. In addition, chemical-specific factors and toxicity factors for COPCs not in the default IRAP-h COPC database were obtained from the EPA RSL database. Specifically, chemical specific input parameters such as bioconcentration factors of plant and fish and bio-transfer factors of above ground plants or forage were included from sources cited by HHRAP guidance. While these sources were obtained from reputable sources, bioaccumulation factors can vary greatly between species of fish and plants. Uncertainty due to input parameters or variables and model predictions are generally recognized by risk assessors as major sources of uncertainty. However, given that chemical specific factors and toxicity data were based on EPA's most current preferred sources, the uncertainty associated with their use in this risk assessment is medium. Uncertainty associated with the modeled fish consumption exposure pathway is high. The HHRAP guidance does not recommend evaluating the dermal exposure to soil pathway as part of the recommended exposure scenarios. The contribution to overall risk from dermal exposure to soils is typically low relative to contributions resulting from exposures via the food chain. Additionally, the drinking water consumption pathway was not evaluated as part of this risk assessment. As discussed in Section 3.2, all receptors are assumed to receive their drinking water from Lake Michigan. Due to the distance from the site and the volume of Lake Michigan, the impact of Site-related deposition on Lake Michigan drinking water is negligible. Therefore, the level of uncertainty from the exclusion of the dermal and drinking water pathways is low.

The emission sources identified in this report were provided primarily by RMG and augmented through site visits by EPA and CDPH, and by CDPH's review of inspection reports and permit applications. The particular methods and magnitude of these operations may vary over time, which contributes to uncertainty of the location and number of emission sources. However, the objective of this assessment is to reasonably estimate risk from overall operations at the site. Therefore, the overall uncertainty associated with modifications to onsite operations is low.

In addition to the Site itself, several large facilities with significant emissions operate in the surrounding neighborhoods (e.g., Ford Assembly Plant). While this does not impact the Site's risk estimates, it is important to note that this HHRA evaluates only Site-related emissions and does not consider cumulative impacts from any off-site sources that may impact the same receptors considered in the HHRA. Therefore, the results of this risk assessment should be interpreted as one specific source of risk from the Site to the community and should not be considered representative of cumulative risk from all industry located in the area.

Uncertainties in the HHRA also stemmed from the dispersion modeling assessment. While the modeling is a valuable tool for estimating concentrations and deposition, it has limitations in accuracy. EPA's protocol for determining the best-performing dispersion model addresses model uncertainties and indicates a preference toward over-prediction of ambient air concentrations to provide assurance that dispersion model assessments are protective (EPA 1992). Through the implementation of improvements to AERMOD since it became EPA's preferred dispersion model, EPA has acknowledged over-prediction of ambient air concentrations from emissions sources with low release heights during light wind conditions and has taken steps to improve AERMOD's accuracy in these circumstances. Additionally, the IRAP-h software tool is unable to address the temporal variability of emissions. For example, the Site does not operate at night or on Sundays. While AERMOD is equipped to address such variability in emissions, IRAP-h is not and therefore the resulting calculated ambient air concentrations are at least a multiplier of 2 greater than would be expected. Therefore, the overall uncertainty associated with the dispersion modeling is considered medium with a conservative bias toward over-predicting risk.

7.0 REFERENCES

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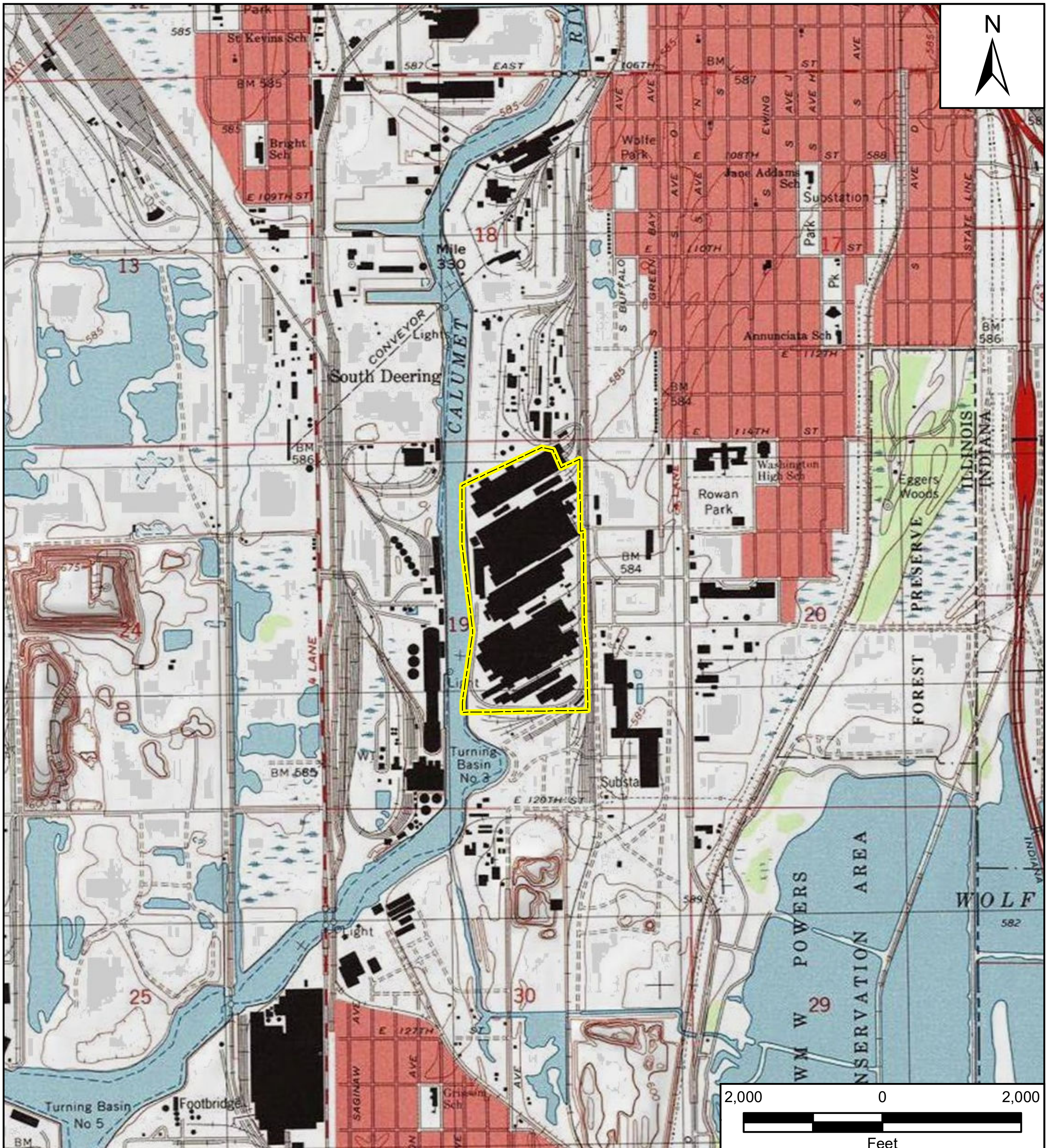
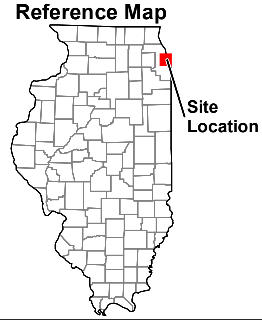
FIGURES





Legend

Site Boundary

Source: USGS 7.5-Minute Topographic Quadrangle Map: Sebring, OH 1993

Reserve Management Group (RMG) Site
11600 S Burley Ave,
Chicago, IL

Figure 1
Site Location Map

TETRA TECH

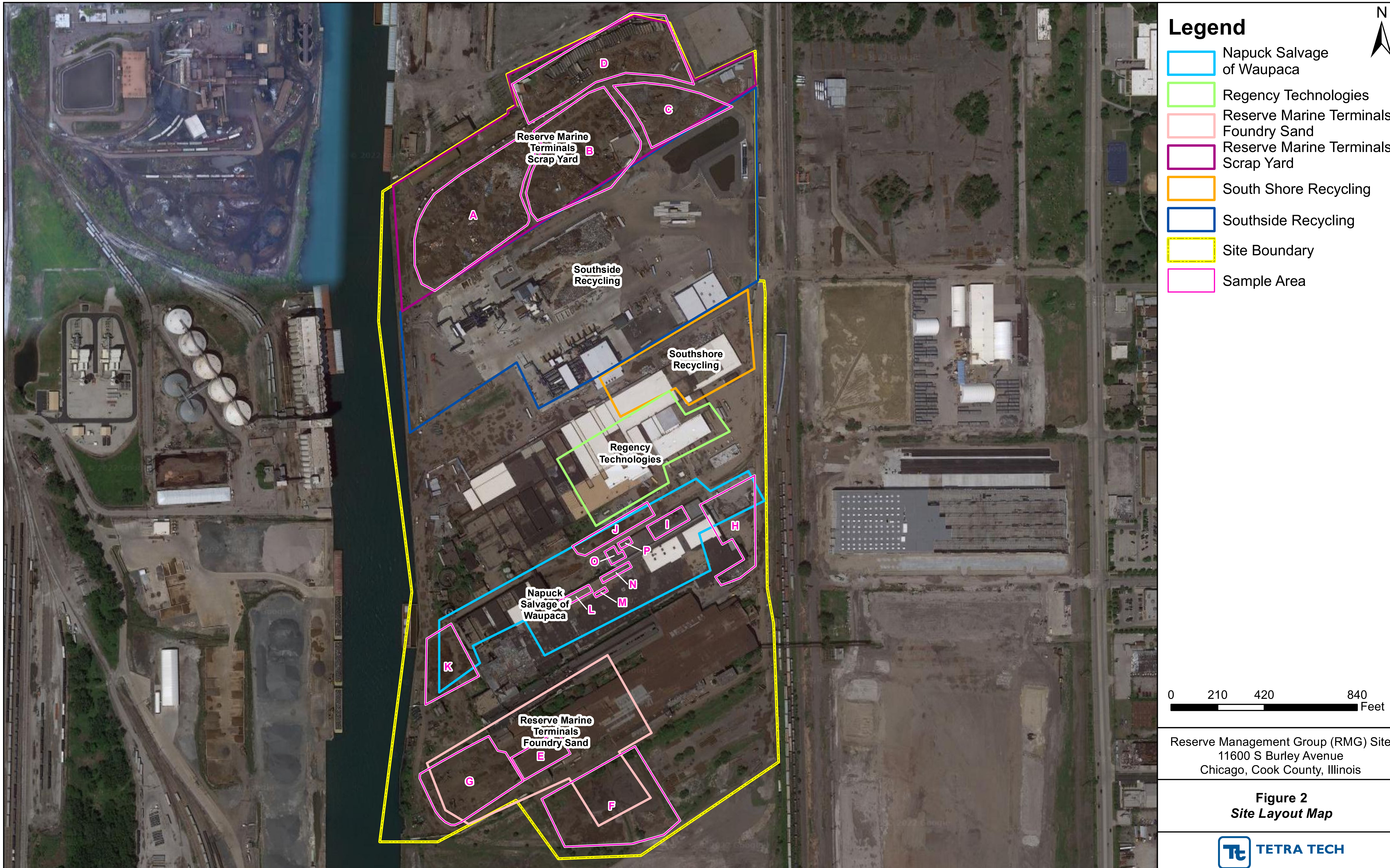
Prepared For: CDPH

Prepared By: Tetra Tech Inc.

File Path: C:\Users\andrew.prestridge\Desktop\Chicago\South Shore Recycling\mxd\Fig1-SiteLocation.mxd

Date Saved: 11/18/2021

Coordinate System: NAD 1983 StatePlane Illinois East FIPS 1201 Feet
Projection: Transverse Mercator
Datum: North American 1983



Reserve Management Group (RMG) Site
11600 S Burley Avenue
Chicago, Cook County, Illinois

Figure 2
Site Layout Map

TETRA TECH

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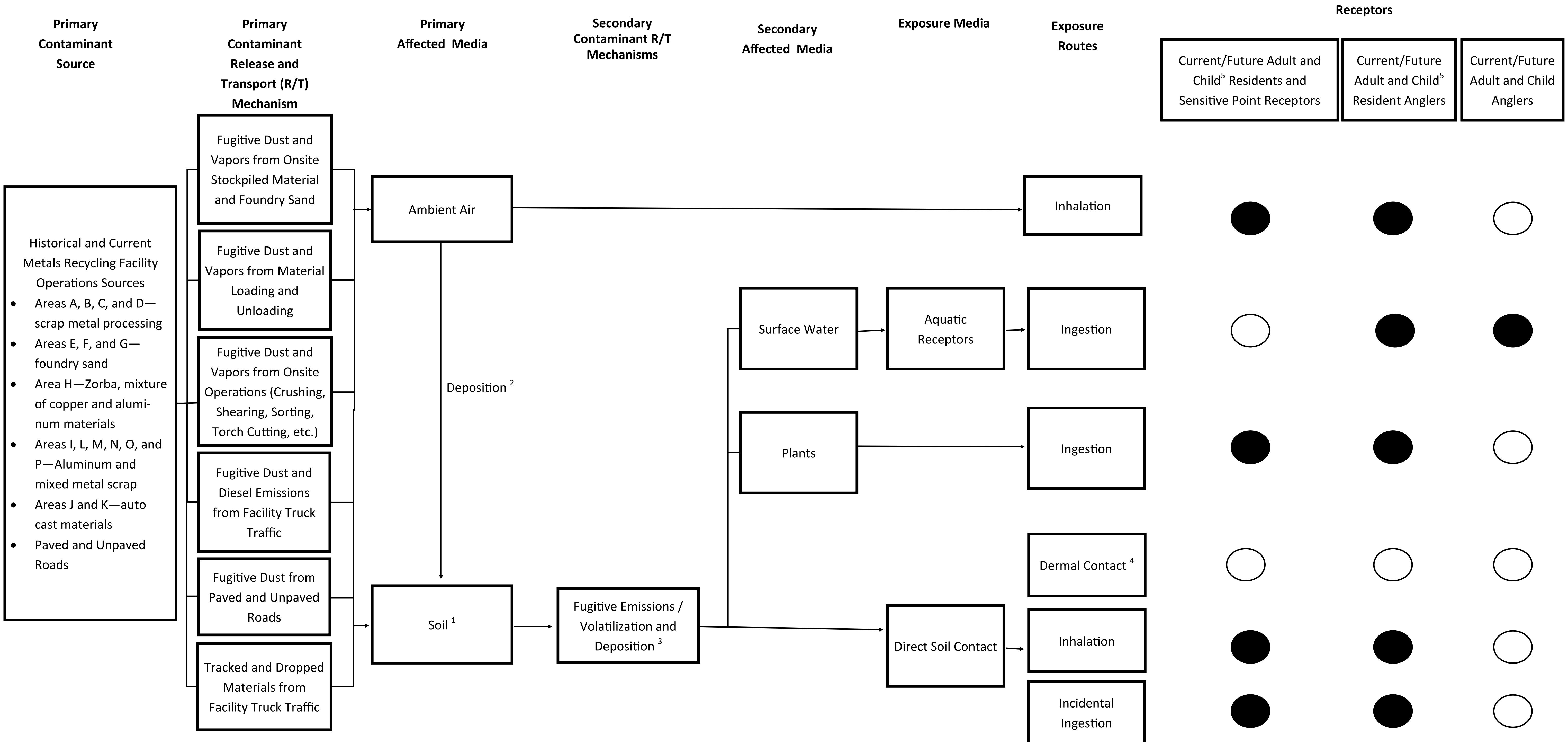

Notes:

1. Surface soils only.
2. Deposition of fugitive dust may occur onto soil , surface water/sediment, as well as plants.
3. These pathways, fugitive emissions/volatilization and deposition from offsite soils, are considered de minimus in IRAP-h.
4. The dermal pathway is a potentially complete exposure pathway. However, dermal exposure is generally negligible and is not recommended for evaluation in the Human Health Risk Assessment Protocol (EPA 2005).
5. Ingestion of breastmilk exposure pathway is also considered for infant residents and resident anglers.

● Potentially complete exposure pathway.

○ Incomplete or negligible exposure pathway, not retained for evaluation

Figure 3
Conceptual Site Model

Reserve Management Group (RMG) Site
Chicago, Illinois

TETRA TECH

Prepared For: Chicago Department of Public Health | Prepared By: Tetra Tech

Legend

N

AERMOD Volume and Point Sources (Process Sources, Haul Roads, and Public Intersections)

AERMOD Area Sources (Material Storage Areas)

Site Boundary

0 0.1 0.2 0.4 Miles

Reserve Management Group (RMG) Site
11600 S Burley Avenue
Chicago, Cook County, Illinois

Figure 4a
AERMOD Emission Source Locations

TETRA TECH

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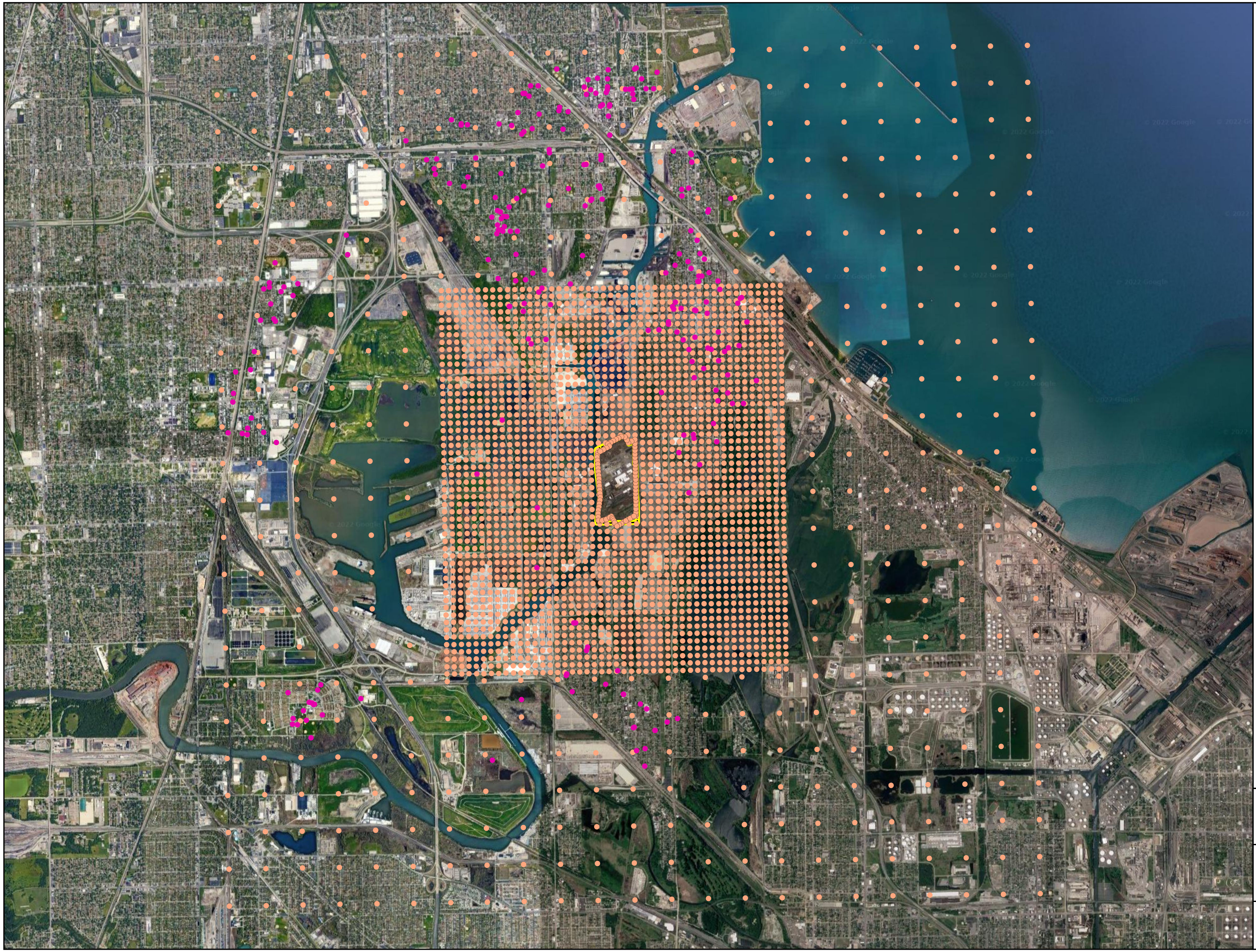

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N

Grid/Fenceline Receptors

Sensitive Receptors (257 schools, daycares, churches, and parks)

Site Boundary

1,100 550 0 1,100 Meters

Reserve Management Group (RMG) Site
11600 S Burley Avenue
Chicago, Cook County, Illinois

Figure 4b
AERMOD Receptor Locations

TETRA TECH

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Date Saved: 2/9/2022

Legend

N

Grid Receptor

Sensitive Receptor

Site Boundary

0 155 310 620 Feet

Reserve Management Group (RMG) Site
11600 S Burley Avenue
Chicago, Cook County, Illinois

Figure 5a
Final IRAP-h Receptor Locations - Sensitive and Grid Receptors

TETRA TECH

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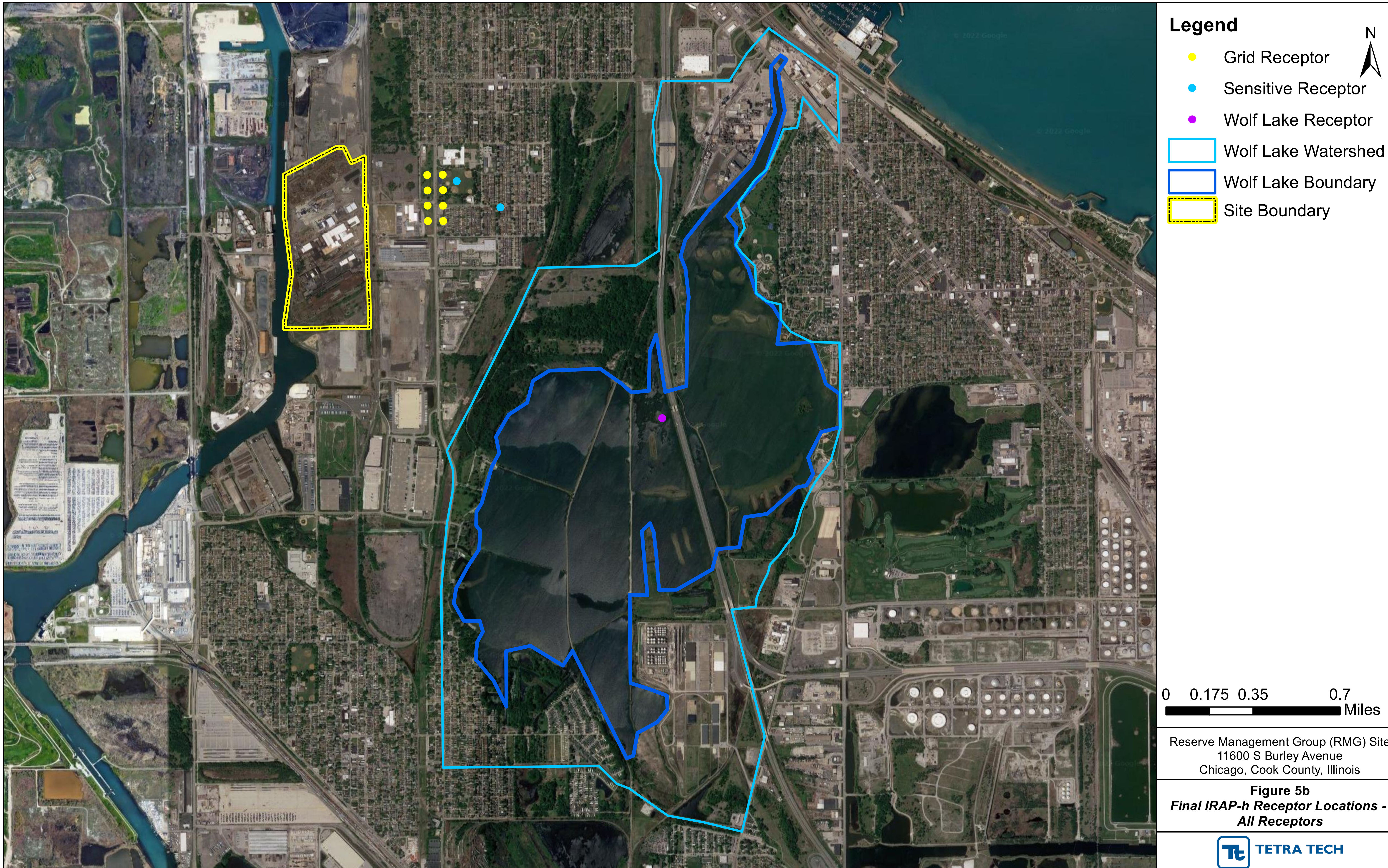

Reserve Management Group (RMG) Site
11600 S Burley Avenue
Chicago, Cook County, Illinois

Figure 5b
Final IRAP-h Receptor Locations - All Receptors

TETRA TECH

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Date Saved: 2/23/2022

APPENDIX A

List of Sensitive Receptors

APPENDIX A
LIST OF SENSISTIVE RECEPTORS

Receptor Type	Receptor Name
Church	D C Coleman Temple African Methodist Episcopal Church
Church	Willing Workers Church
Church	Saint Kevins Roman Catholic Church
Church	East Side Full Gospel Church
Church	East Side United Methodist Church
Church	Our Lady Of Guadalupe Church
Church	Compassion Baptist Church
Church	New Prospect Missionary Baptist Church
Church	Praise Tabernacle Deliverance Baptist Church
Church	Pullman United Methodist Church
Church	Pilgrim Baptist Church Chicago
Church	Salem Baptist Church Of Chicago
Church	Church of the Living God Outreach Mission of Chicago
Church	Calvary Baptist Church
Church	Our Lady of Guadalupe Church
Church	Christ Community Church
Church	Our Lady of Guadalupe Catholic Church
Church	Serbian Saint Simeon Mirotociv Orthodox Church
Church	Lebanon Lutheran Church
Church	Greater Saints Stephen Baptist Church
Church	United Church of Altgeld Gardens
Church	Pathway To Victory Missionary Baptist Church
Church	Greater Rising Sun Missionary Baptist Church
Church	Saint Florian Catholic Church
Church	East Side Bible Church
Church	Saint Columba Church
Church	Hegewisch United Methodist Church
Church	Community Christian Church
Church	East Side Bible Church
Church	Catholic Bishop of Chicago
Church	Christ Universal Church
Church	Altgeld Gardens Seventh Day Adventist Church
Church	Church of Annunciata
Church	Bethlehem Evangelical Lutheran Church
Church	Assumption Greek Orthodox Church
Church	Saint Titus One Missionary Baptist Church
Church	Great Morning View Missionary Baptist Church
Church	Serbian Eastern Orthodox Church of Saint Archangel Michael
Church	First New Mount Olive Missionary Baptist Church
Church	Immanuel Lutheran Church
Church	East Side Baptist Church
Church	Word Evangelistic Church
Church	Chains Are Broken Ministry
Church	Pullman United Methodist Church
Church	Saint Petri United Church of Christ
Church	Saint Francis De Sales Church
Church	Catholic Bishop of Chicago
Church	Salem Baptist Church Chicago

APPENDIX A
LIST OF SENSISTIVE RECEPTORS

Receptor Type	Receptor Name
Church	Christian Fellowship Flock
Church	Trinity Resurrection United Church
Church	Saint Peter and Paul Roman Catholic Church
Church	Inspired Word Church
Church	Redemption Way Church of God
Church	Saint George Catholic Church
Church	South Deering United Methodist Church
Church	Southeast Congregation of Jehovah's Witnesses
Church	Evangelical Covenant Church
Church	Pilgrim Baptist Church
Church	Mount Sinai Missionary Baptist Church
Church	Bethel Free Church
Church	New Straightway Missionary Baptist Church
Church	Iglesia De Dios Pentecostal Church
Church	All Souls Christian Church
Church	South Chicago Church of God
Church	Sacred Heart Church
Church	Christ Life Church Chicago
Church	Chicagoland Christian Center
Church	South Chicago Pentecostal Church
Church	Trinity Lutheran Church
Church	Manor Community Church
Church	Our Lady Gate of Heaven Church
Church	Power Circle Congregation
Church	Saint Hedwigs Church
Daycare	Village House Learning Center
Daycare	Raindrop Early Learning Center
Daycare	93RD*
Daycare	Ramona's Lovely Touch Academy
Daycare	COMMERCIAL*
Daycare	Shining Star Child Development
Daycare	El Valor Rey B. Gonzalez Children and Family Center
Daycare	Taylor Made Scholars Early Learning Ct
Daycare	Restoring the Seed
Daycare	Amazing Kids' Clubhouse
Daycare	Illinois Institute for Children
Daycare	Angels Bumblebee
Daycare	Mari's Bumble Bee Academy
Daycare	Lakeside Learning Academy
Daycare	McKinley Trumbull Park Day Care
Daycare	Shining Star Child Development
Daycare	Dalia's Busy Bee Academy Corporation
Daycare	Brenda's Kids Club Day Care Center
Daycare	EAST END*
Daycare	AVENUE M*
Daycare	Nana's Day Care Home
Daycare	93RD*
Daycare	Mynor's Home Day Care

APPENDIX A
LIST OF SENSISTIVE RECEPTORS

Receptor Type	Receptor Name
Daycare	91ST*
Daycare	Canta's Home Day Care
Daycare	COLFAX*
Daycare	COLFAX*
Daycare	KINGSTON*
Daycare	KINGSTON*
Daycare	KINGSTON*
Daycare	92ND*
Daycare	Good Shepard Institute
Daycare	Full of Joy Home Childcare
Daycare	BENNETT*
Daycare	JEFFERY*
Daycare	97TH*
Daycare	Rock-A-Bye Daily Care
Daycare	OGLESBY*
Daycare	YATES*
Daycare	Amazing Kids' Clubhouse
Daycare	N.I.T.Z.'s Happy Kidz Samantha's Home Day Care
Daycare	100TH*
Daycare	Alpha Day Care
Daycare	YATES*
Daycare	Kid's Universe Home Day Care
Daycare	Happy Feet Home Day Care
Daycare	AVENUE M*
Daycare	Poppy's Childcare Academy
Daycare	BENSLEY*
Daycare	Mickey and Minnie Home DayCare
Daycare	HOXIE*
Daycare	AVENUE N*
Daycare	AVENUE L*
Daycare	Tom and Jerry Home Daycare
Daycare	BENSLEY*
Daycare	AVENUE N*
Daycare	AVENUE N*
Daycare	AVENUE C*
Daycare	Alegrijes y Rebujos
Daycare	AVENUE O*
Daycare	AVENUE O*
Daycare	AVENUE L*
Daycare	AVENUE M*
Daycare	Emily's Early Learning Day Care
Daycare	AVENUE J*
Daycare	AVENUE F*
Daycare	Rise N Shine
Daycare	AVENUE B*
Daycare	GREEN BAY*
Daycare	AVENUE H*
Daycare	112TH*

APPENDIX A
LIST OF SENSISTIVE RECEPTORS

Receptor Type	Receptor Name
Daycare	Little Heros Daycare Home
Daycare	BRENNAN*
Daycare	AVENUE O*
Daycare	Free to Be Me ABC Home Daycare
Daycare	Olive-Harvey Child Development Center
Daycare	Weatherby Wonder World
Daycare	EBERHART*
Daycare	CubbyHeart DayCare
Daycare	CORLISS*
Daycare	103RD*
Daycare	103RD*
Daycare	104TH*
Daycare	109TH*
Daycare	CHAMPLAIN*
Daycare	LANGLEY*
Daycare	East Side Child Development Center
Daycare	Henry Booth House
Daycare	MANISTEE*
Daycare	Brighter Horizons Home Daycare
Daycare	MANISTEE*
Daycare	Centers for New Horizons
Daycare	132ND*
Daycare	CORLISS*
Daycare	ELLIS*
Daycare	ELLIS*
Hospital	Advocate Trinity
Library	Altgeld
Library	South Chicago
Library	Hegewisch
Library	Jeffery Manor
Library	Vodak - East Side
Park	Carver (George Washington) - 255
Park	Nature Reserve Park - 576
Park	Hegewisch Marsh - 563
Park	Mann (James) - 17
Park	Indian Ridge Marsh Park N - 565
Park	Indian Ridge Marsh Park S - 565
Park	Big Marsh Park - 564
Park	Wolfe (Richard) - 1072
Park	Rowan (William) - 248
Park	Trumbull (Lyman) - 16
Park	1735-37 E 96th St - 562
Park	Gately (James) - 244
Park	Luella - 1122
Park	Merrill (George) - 1126
Park	Bradley (Josephine) - 1004
Park	Veterens Memorial - 1067
Park	Bessemer (Henry) - 12

APPENDIX A
LIST OF SENSISTIVE RECEPTORS

Receptor Type	Receptor Name
Park	Schafer (Clarad)
Park	Calumet - 11
Park	Beniac Greenway N - 499
Park	Beniac Greenway C - 500
Park	Beniac Greenway S - 501
Park	Dougherty (Daniel) - 368
School	Ada S. McKinley Community Services - Trumbull Park
School	Addams
School	Annunciata School
School	Arnold Mireles Elementary Academy
School	Banner Academy South High Sch
School	Bright
School	Buckingham
School	Burnham
School	Burnham Elementary Inclusive Academy
School	Carver
School	Carver G
School	Carver Military High School
School	Centers for New Horizons - Altgeld Gardens Early Learning Center
School	Chicago Youth Centers - Dorothy Gautreaux
School	City Colleges of Chicago - Olive Harvey
School	Clay
School	Corliss HS
School	Dorsey Developmental Institute
School	Douglas Taylor Elementary School
School	Eastside Child Development Center
School	El Valor - Mari's Bumble Bee Academy
School	El Valor - Rey B Gonzalez Children & Family Center
School	Gallistel
School	George M Pullman Elementary School
School	George Washington Carver Primary School
School	George Washington Elementary School
School	Grissom
School	Henry Booth House - Hegewisch
School	Henry Clay Elementary School
School	James N Thorp Elementary School
School	Jane Addams Elementary School
School	John L Marsh Elementary School
School	Joseph Warren Elementary School
School	L L Performing Arts Academy
School	Lawrence
School	Learn Charter-South Chicago
School	Little House Montessori
School	Marsh
School	Matthew Gallistel Elementary Language Academy
School	Mireles
School	Noble-Butler High School

APPENDIX A
LIST OF SENSISTIVE RECEPTORS

Receptor Type	Receptor Name
School	Orville T Bright Elementary School
School	Our Lady of Guadalupe
School	Poe
School	Pullman
School	Sacred Heart School
School	Shining Star
School	Shining Star
School	South Chicago YMCA
School	Southeast
School	Southeast Area Elementary School
School	St Florian
School	St Francis De Sales High School
School	Taylor
School	Thorp, J
School	Virgil Grissom Elementary School
School	Warren
School	Washington HS
School	Washington, G ES

Notes:
* - Exact Daycare name not provided, identified by street name only.

APPENDIX B

Validated Analytical Results

TETRA TECH

February 6, 2022

Mr. Dave Graham
Chicago Department of Public Health
333 S. State St., 2nd Floor
Chicago, IL 60604

Subject: Data Validation Report
Reserve Management Group Site

Dear Mr. Graham:

Tetra Tech Inc. (Tetra Tech) is submitting these data validation reports for thirty-one solid samples including one aqueous rinsate blank sample collected at the Reserve Management Group (RMG) Site. The samples were collected on December 21, 2021, and analyzed for semi-volatile organic compounds, polychlorinated biphenyls, dioxins and furans, metals, and pH by Eurofins TestAmerica. The final revised laboratory submittal was received on February 1, 2022.

Analytical data were evaluated in general accordance with the EPA *National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review* (November 2020), the EPA *NFG for Organic Superfund Methods Data Review* (November 2020), and the EPA *NFG for High-Resolution Superfund Methods Data Review* (November 2020).

No rejection of results was required for these data packages. The results may be used as qualified based on the findings of this validation effort.

If you have any questions regarding these data validation reports, please call me at (312) 201-7430.

Sincerely,

Bruce Welch

Bruce Welch
Environmental Scientist

Enclosure
cc: Stacey Durley, Tetra Tech Project Manager

Tetra Tech, Inc.
1 South Wacker Dr. Suite 3700, Chicago, IL 60606
Tel 312.201.7479 | Fax 312.201.0031
www.tetratech.com

ATTACHMENT

DATA VALIDATION REPORTS
EUROFINS TESTAMERICA REPORT NOS.
500-210257-1, 500-210257-2, 500-210257-3, 500-210257-4,
500-210259-1, 500-210259-2, AND 500-210259-3

DATA VALIDATION CHECKLIST – STAGE 3

Site Name	RMG Site	**Project No.**	103Z328406002
Data Reviewer (signature and date)	Bruce Welch January 26, 2022	**Technical Reviewer (signature and date)**	Harry N. Ellis III 31 January 2022
Laboratory Report No.	500-210257-1	**Laboratory**	Eurofins TestAmerica – Chicago, IL

Analyses	Metals by EPA SW-846 Methods 6010B/7471B, polychlorinated biphenyls (PCB) by EPA SW-846 Method 8082A, and pH by EPA SW-846 Method 9045D
Samples and Matrix	Fourteen solid samples including two solid field duplicate sample
Collection Date(s)	December 21, 2021
Field Duplicate Pairs	SSR-ST-C03-211221 / SSR-ST-C03-211221-D and SSR-ST-B04-211221 / SSR-ST-B04-211221-D
Field QC Blanks	None

INTRODUCTION

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (January 2020), and the EPA *NFG for Inorganic Superfund Methods Data Review* (January 2020).

OVERALL EVALUATION

No rejection of the data was required for this data package. The results may be used as qualified based on the findings of this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
N	**pH**: The analysis should be performed immediately following sample collection, but the soil samples were analyzed seven days after sample collection; therefore, all soil sample pH results were qualified as estimated (flagged J). The data user should note the temperature results in the attached qualified data table is the temperature that was measured at the time of the pH analysis and not related to the sample collection

Instrument Performance Checks:

Within Criteria	Exceedance/Notes
NA	

Initial Calibration:

Within Criteria	Exceedance/Notes
N	**Metals**: The NFG requires daily initial calibration (ICAL) for ICP-AES instrumentation and for the ICAL to contain a blank standard plus the number of calibration standards specified in the quality assurance project plan (QAPP) or statement of work (SOW). However, this project does not have a QAPP or SOW that specifies ICAL criteria for ICP-AES instrumentation, thus the laboratory met the EPA SW-846 Method 6010B requirement to analyze a blank standard plus one non-zero standard solution. The laboratory was contacted because some of the raw instrument sample concentrations were up to approximately three hundred times the concentration of the single-point ICAL. The laboratory stated the linear range of the ICP-AES instrumentation is bi-annually verified; thus, the laboratory proved instrument linearity beyond the concentration of the single point ICAL, and the linearity range extends to the raw instrument concentration of the metals in the project samples. While no qualifications were applied, the data user should note the NFG requires ICP-AES instrumentation to analyze a minimum of three replicate exposures, but the laboratory analyzed only two replicate exposures. Also, since the laboratory utilized a single-point ICAL, the linear regression could not be recalculated.

Initial Calibration continued:

Within Criteria	Exceedance/Notes
N	**pH**: The ICAL requirements are to conduct a daily ICAL with five buffer solutions (pH: 2, 4, 7, 10, 13) that result in a slope value that is ≥95% and buffer solutions that are within ±0.05 units from the true pH value. The pH meter calibration slope value was documented in the general chemistry batch worksheet and met the acceptance limit; however, the meter readings for each buffer solution were not presented in the data package. Therefore, the calibration buffer solutions were not verified to be ±0.05 units from the true pH value, and the slope was not recalculated. While no further qualifications were applied, the data user should note the variance.

Continuing Calibration:

Within Criteria	Exceedance/Notes
N	**PCB:** The continuing calibration verification (CCV) solution 500-636011/2 that was analyzed on the primary column ZB-5 had a percent difference (%D) value for PCB-1016 peak #4, and %D values for PCB-1260 peaks #4 and #5 exceed the laboratory acceptance limit; however, no qualifications were applied to the PCB-1016 or PCB-1260 results because the average %D values for PCB-1016 and PCB 1260 were within the laboratory acceptance criteria. The CCV solution 500-636011/2 that was analyzed on the confirmation column ZB-CLP-Pest2 had a %D value for PCB-1016 peak #1 and PCB-1260 peak #5 exceed the laboratory acceptance limit; however, no qualifications were applied because the average %D values for PCB-1016 and PCB 1260 were within the laboratory acceptance criteria. Note the %D for the surrogate decachlorobiphenyl exceeded the laboratory acceptance limit but no qualifications were applied for this variance.

Calibration Verification:

Within Criteria	Exceedance/Notes
N	**Metals**: EPA SW-846 Method 6010B does not require the lowest standard solution of the ICAL to equal the reporting limit (RL) concentration, but the NFG requires the lowest standard solution of the ICAL to be equivalent to the concentration of each metal's RL. The laboratory utilized a single point ICAL using a concentration of 1.0 milligrams per liter (mg/L), and they verified the ICAL using an initial calibration verification (ICV) standard solution containing 20.0 mg/L of lead, 4.0 mg/L of manganese, and 0.4 mg/L for the remaining reported metals. The arsenic, cadmium, and cobalt result for sample SSR-ST-B00-211221, and the cobalt result for sample SSR-ST-C02-211221 was less than the RL or nondetect; therefore, an evaluation of the raw instrument results for the low-level ICV (ICVL) verification solution 500-637181/9 was compared to the RLs, and no qualifications were applied because the ICVL recoveries were within ±20% of the RL concentrations for arsenic, cadmium, and cobalt. No qualifications were applied to the results for the remaining metals because they exceeded the RLs.

Method blanks:

Within Criteria	Exceedance/Notes
N	**Metals**: The soil method blank 500-636948/1-A contained 0.0673 milligrams per kilogram of cadmium, a concentration that is less than the RL; however, no qualifications were applied because the cadmium soil sample results exceeded the RL and were greater than ten times the concentration of cadmium in the method blank, except for sample SSR-ST-B00-211221. The cadmium result for SSR-ST-B00-211221 was less than the RL; therefore, the cadmium result for this sample was qualified as nondetect (flagged U) and reported at the RL. The CCB 500-636776/33 contained 0.168 micrograms per liter of mercury, and no qualifications were applied because a comparison of the raw instrument data for samples (adjusted for dilution) SSR-SS-A01-211221, SSR-SS-A02-211221, SSR-ST-A03-211221, SSR-RD-A04-211221, SSR-ST-B00-211221, SSR-SS-B02-211221, and SSR-ST-B03-211221 associated with the raw instrument data for the CCB solution showed that the concentrations of mercury for samples SSR-SS-A01-211221, SSR-SS-A02-211221, SSR-ST-A03-211221, and SSR-ST-B03-211221 exceeded the RL and were >10x the concentration of mercury in the CCB solution, and the mercury result for samples SSR-RD-A04-211221 and SSR-ST-B00-211221 were nondetect. The mercury raw instrument data for sample SSR-SS-B02-211221 exceeded the RL but was <10x the mercury raw instrument concentration in the CCB solution; therefore, the mercury result for sample SSR-SS-B02-211221 was qualified as estimated, possibly biased high (flagged J+).

Field blanks:

Within Criteria	Exceedance/Notes
NA	

Interference Check Samples (ICS) (ICP metals only):

Within Criteria	Exceedance/Notes
N	The percent recoveries for all ICSA and ICSAB solutions were within the acceptance limits. However, the ICSA solution 500-637181/11 that was analyzed on January 10, 2022, at 10:46 had a positive result for cadmium that exceeded the method detection limit (MDL) value, and a negative result for lead with an absolute value that exceeded the MDL. A comparison of the raw instrument data for all soil samples (adjusted for dilution) with the raw instrument data for this ICSA solution showed that the concentrations (adjusted for dilution) for one or more interferents was similar to the concentration of the interferent in the ICSA solution, except samples SSR-RD-A04-211221, SSR-SS-B01-211221, SSR-SS-B02-211221, and SSR-ST-B03-211221 that were reanalyzed with dilutions for lead. No qualifications were applied to the lead results for samples SSR-RD-A04-211221, SSR-SS-B01-211221, SSR-SS-B02-211221, and SSR-ST-B03-211221 because a comparison of the raw instrument data of these samples (adjusted for dilution) with the raw instrument data for this ICSA solution showed that the concentrations (adjusted for dilution) of all interferents were not similar and less than the concentrations of the interferents in the ICSA solution. The cadmium raw sample concentrations (adjusted for dilution) for all samples were >10x the cadmium ICSA raw instrument concentration and were not qualified, except for samples SSR-SS-B02-211221, SSR-SS-C01-211221, SSR-ST-B00-211221, and SSR-ST-C02-211221. The cadmium raw sample concentrations (adjusted for dilution) for SSR-SS-B02-211221, SSR-SS-C01-211221, SSR-ST-B00-211221, and SSR-ST-C02-211221 were <10x the cadmium ICSA raw instrument concentration; therefore, the cadmium result for SSR-SS-B02-211221, SSR-SS-C01-211221, and SSR-ST-C02-211221 were qualified as estimated, possibly biased high (flagged J+), and no qualification was applied to the cadmium nondetect result for sample SSR-ST-B00-211221.

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
N	**PCBs**: The recoveries for the surrogates decachlorobiphenyl and tetrachloro-m-xylene for samples SSR-SS-A01-211221, SSR-SS-A02-211221, SSR-ST-A03-211221, SSR-RD-A04-211221, SSR-SS-B01-211221, SSR-SS-B02-211221, SSR-ST-B03-211221, SSR-ST-B04-211221, SSR-ST-B04-211221-D, and SSR-SS-C01-211221 were 0% which is less than the NFG acceptance criteria; however, no qualifications were applied because the surrogates for these samples were diluted out.

MS/MSD:

Within Criteria	Exceedance/Notes
N	**SSR-RD-A04-211221 (PCBs)**: PCB-1016 and PCB-1260 were reported from column ZB-5, and the average MS/MSD recoveries exceeded the laboratory acceptance limit; however, no qualifications were applied because the PCB parent sample results were nondetect. The data user should note the high recoveries were likely due to the presence of Aroclors in the parent sample. **SSR-SS-A01-211221 (Metals)**: The MS/MSD recoveries and RPDs for chromium, iron, lead, and manganese and MS/MSD recoveries for lead were not evaluated because the parent sample concentrations exceeded four times the spiked concentration. The average MS/MSD recoveries and RPDs for cadmium, arsenic, and nickel exceeded the laboratory acceptance limit; therefore, the cadmium, arsenic, and nickel parent sample results were qualified as estimated, possibly biased high (flagged J+). **SSR-ST-B04-211221 (Mercury)**: The MS recovery exceeded the laboratory control limit, the MSD recovery was less than the laboratory control limit, and RPD for mercury exceeded the laboratory acceptance limit; therefore, the mercury parent sample result was qualified as estimated (flagged J).

Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	

Serial dilutions:

Within Criteria	Exceedance/Notes
N	**SSR-SS-A01-211221 (Metals):** The 11 %D for chromium exceeded the laboratory 10% acceptance limit; however, no qualifications were applied because %D for chromium met the NFG 20% acceptance limit.

Laboratory duplicates:

Within Criteria	Exceedance/Notes
N	**SSR-SS-A01-211221 (Metals):** The RPD for chromium, arsenic, lead, and nickel exceeded the laboratory acceptance limit; therefore, the parent sample result for these metals was qualified as estimated (flagged J). Note the arsenic and nickel results were qualified biased high due to MS/MSD exceedances, and the chromium result was qualified biased low due to an internal standard exceedance. **SSR-ST-B04-211221 (Mercury):** The RPD for mercury exceeded the laboratory acceptance limit; therefore, the parent sample result was qualified as estimated (flagged J).

Field duplicates:

Within Criteria	Exceedance/Notes
N	**SSR-ST-B04-211221 / SSR-ST-B04-211221-D**: The RPD was 130.6% for nickel which exceeded the 70% acceptance limit; therefore, the nickel result for the parent sample and field duplicate were qualified as estimated (flagged J). **SSR-ST-C03-211221 / SSR-ST-C03-211221-D**: The RPD was 105.9% for chromium, 157.7% for lead, and 86.7% for manganese which exceeded the 70% acceptance limit; therefore, the chromium, lead, and manganese results for the parent sample and field duplicate were qualified as estimated (flagged J).

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	While no qualifications were applied for dilutions, the data user should note the increased RLs. **PCB**: All PCB analytes were analyzed with a 20-fold dilution for SSR-RD-A04-211221, SSR-SS-A01-211221, SSR-SS-A02-211221, SSR-SS-B01-211221, SSR-SS-B02-211221, SSR-SS-C01-211221, SSR-ST-A03-211221, SSR-ST-B03-211221, SSR-ST-B04-211221, and SSR-ST-B04-211221-D. **Metals**: Arsenic, iron, lead, manganese, and nickel were analyzed with a 10-fold dilution for sample SSR-SS-A01-211221. Arsenic, chromium, cobalt, iron, lead, manganese, and nickel were analyzed with a 10-fold dilution for samples SSR-ST-A03-211221, SSR-SS-B01-211221, SSR-SS-B03-211221, SSR-ST-B04-211221, and SSR-ST-B04-211221-D. The results for arsenic, chromium, iron, lead, and nickel were analyzed with a 10-fold dilution, and cobalt and manganese were analyzed with a 50-fold dilution for sample SSR-SS-C02-211221. Arsenic, chromium, iron, lead, manganese, and nickel were analyzed with a 5-fold dilution for sample SSR-SS-A02-211221. Arsenic, chromium, cobalt, iron, lead, manganese, and nickel were analyzed with a 5-fold dilution for samples SSR-SS-C01-211221 and SSR-ST-C03-211221. Arsenic, cobalt, iron, lead, manganese, and nickel were analyzed with a 5-fold dilution for samples SSR-RD-A04-211221, SSR-SS-B02-211221, and SSR-ST-C03-211221-D. Cobalt and manganese were analyzed with a 5-fold dilution for sample SSR-ST-B00-211221. Mercury was analyzed with a 5-fold dilution for sample SSR-SS-B01-211221.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

Second column confirmation (GC and HPLC analyses only):

Within Criteria	Exceedance/Notes
N	**SSR-ST-B04-211221 (PCB)**: The RPD between the primary and confirmation columns was 51.7% and exceeded the NFG 25% acceptance limit; therefore, the PCB-1248 and total PCB results were qualified as estimated (flagged J). Due to competing qualifications from analyte identification, the PCB-1248 result was qualified with high bias. The laboratory was contacted, and they confirmed the lower of the two PCB results are reported unless there is an instrument QC issue and then the higher of the two PCB results which are associated with acceptable instrument QC criteria are reported. Additionally, the laboratory verified the primary column is ZB-5, and the confirmation column results in the Form 1 PCB Organic Analysis Data Sheets are always italicized.

Internal Standards:

Within Criteria	Exceedance/Notes
N	The laboratory was contacted, and they confirmed the ICP-AES instrument software uses internal standards to calculate metals results. Samples SSR-ST-B00-211221, SSR-ST-B03-211221, and SSR-ST-C02-211221 had a relative intensity for indium (In) that was less than the NFG 60% relative intensity limit; therefore, the cobalt, lead, and nickel results for samples SSR-ST-B00-211221, SSR-ST-B03-211221, and SSR-ST-C02-211221 were qualified as estimated, biased high (flagged J+), and no qualifications were applied to the cobalt nondetect results for samples SSR-ST-B00-211221 and SSR-ST-C02-211221. Sample SSR-SS-A01-211221 had a relative intensity for yttrium (Y) at wavelength 360.073 exceed the NFG 125% relative intensity limit; therefore, the chromium result for sample SSR-SS-A01-211221 was qualified as estimated, biased low (flagged J-). The data user should note the recovery for the internal standard 1-bromo-2-nitrobenzene used in the PCB analysis was within the laboratory acceptance criteria for all samples.

Target analyte identification:

Within Criteria	Exceedance/Notes
N	The laboratory narrated the chromatography for all samples except for SSR-ST-B00-211221 had more than one Aroclor present in these samples, but there was insufficient chromatographic resolution to individually quantify all Aroclors present in the samples. A review of the chromatography for these samples confirmed the samples may contain more than one Aroclor. The laboratory was contacted, and they stated Aroclor 1254 was likely present in the sample, but the laboratory was unable to quantitate both Aroclor 1248 and Aroclor 1254 because there is a significant overlap of shared peaks between Aroclor 1248 and Aroclor 1254 that are used for quantitation. The laboratory reported Aroclor 1248 as the primary Aroclor in the samples because Aroclor 1248 had the best pattern match, a lower RPD between the primary and confirmation columns, and a greater overall concentration in the sample. While the laboratory only reported Aroclor 1248, the laboratory also identified Aroclor 1254 was present in the sample, and the coelution of Aroclor 1254 peaks with Aroclor 1248 contributed an unknown additive instrument response; therefore, the Aroclor 1248 result for all samples except for SSR-ST-B00-211221 was qualified as estimated, possibly biased high (flagged J+). The total Aroclor result is a summation of all reported Aroclors, and the laboratory identified Aroclor 1254 was present in these samples, but due to poor chromatographic resolution the laboratory was unable to report Aroclor 1254 which biases the total Aroclor result possibly low; therefore, due to unknown competing bias, the total Aroclor result for these samples was qualified as estimated (flagged J).

Analyte quantitation and MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	The nondetect sample results were reported at the RL values in the laboratory PDF report, but the nondetect sample results were reported at the MDL values in the electronic data deliverable. Sample results between the MDL and the RL were flagged "J" by the laboratory. The nondetect sample results are reported at the RL values in the attached qualified data tables. **SSR-SS-A02-211221 (PCB)**: Note that the PCB-1248 peak #3 was deselected from quantification, but no qualification was applied because the instrument software correctly averages the concentration of the remaining PCB-1248 peaks.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [sample preparation]:

Within Criteria	Exceedance/Notes
Y	While no qualifications were applied, the data user should note that the laboratory performed EPA SW-864 Method 3660A using the mercury clean-up technique on the PCB sample extracts for all samples to minimize the chromatographic interferences caused by elemental sulfur in the soil sample matrices.

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

500-210257-1 PCB

ICV : 500-634137/17 — 12/16/21 17:08

PCB-1260 peak — pg: 565, 567, 568

$$RRF = \frac{28721 \times 0.10\ \mu g \cdot mL^{-1}}{205743 \times 0.25\ \mu g \cdot mL^{-1}} = 0.0558$$ ✓

$$\%D = \left[\frac{0.0558 - 0.0609}{0.0609}\right] \times 100 = -8.3\%$$ ✓

CCV : 500-636011/2 — 12/30/21 08:53

PCB-1016 = -24.2% — pg: 576, 578-579

BW 1/21/22

$$RRF = \frac{29258 \times 0.10\ \mu g \cdot mL^{-1}}{\cancel{26258}\ 264621 \times \cancel{0.25}\ 0.50\ \mu g \cdot mL^{-1}} = 0.0221$$ ✓

$$\%D = \left(\frac{0.0221 - 0.0292}{0.0292}\right) \times = -24.3\%$$ ✓

500-210257-1 PCB

LCS : 500-635860/2-A 12/30/21 09:43

PCB-1260 = 105 %   pg: 42, 603-605, 381, 465

PCB 1260 Peak 3 $C_x = \dfrac{70382 \times 0.10\ \mu g \cdot mL^{-1}}{219474 \times 0.0555} = 0.5778\ \mu g \cdot mL^{-1}$ ✓

$\text{Average} = (0.5386 + 0.5841 + 0.5778 + 0.4573 + 0.4555)/5 = 0.5233$ ✓

$C_x = \dfrac{0.5233\ \mu g \cdot mL^{-1} \times 5\ mL}{0.015\ kg \times 1000\ \mu g \cdot mg^{-1}} = 0.174\ mg \cdot kg^{-1}$ ✓

$\%R = \left(\dfrac{0.174\ mg \cdot kg^{-1}}{0.167\ mg \cdot kg^{-1}}\right) \times 100 = 104.2\%$ ✓

MS : SSR-RD-A04-211221 12/30/21 16:40

PCB-1260 = 93%, 0.167 mg·kg⁻¹   pg 42, 620-623, 381, 465

PCB 1260 Peak 1 $C_x = \dfrac{5560 \times 0.10\ \mu g \cdot mL^{-1}}{213279 \times 0.0820} = 0.0318\ \mu g \cdot mL^{-1}$ ✓

$C_x = \dfrac{0.0232\ \mu g \cdot mL^{-1} \times 5\ mL \times DF20}{0.0153237\ kg \times 1000\ \mu g \cdot mg^{-1} \times 0.907} = 0.167\ mg \cdot kg^{-1}$ ✓

$\%R = \left(\dfrac{0.167\ mg \cdot kg^{-1} - 0.0}{0.180\ mg \cdot kg^{-1}}\right) \times 100 = 92.7\%$ ✓

500-210257-1 PCB

MSD: SSR-RD-A04-211221 12/30/21 16:55
PCB-1260 = 166%, 0.296 mg·kg⁻¹ pg: 48, 640-643, 665

PCB 1260 Peak 2

$$C_x = \frac{11595 \times 0.10\ \mu g\cdot mL^{-1}}{211979 \times 0.0921} = 0.0594\ \mu g\cdot mL^{-1}$$ ✓

✓

$$C_x = \frac{0.0414\ \mu g\cdot mL^{-1} \times 5\,mL \times DF20}{0.0154262\ Kg \times 1000\ \mu g\cdot mg^{-1} \times 0.907} = 0.296\ mg\cdot kg^{-1}$$

$$\%R = \left(\frac{0.296\ mg\cdot kg^{-1} - 0}{0.179\ mg\cdot kg^{-1}}\right) \times 100 = 165.4\%$$ ✓

$$RPD = \left[\frac{0.296 - 0.167}{\left(\frac{0.296 + 0.167}{2}\right)}\right] \times 100 = 56\%$$ ✓

Surrogate: SSR-ST-C02-211221 12/30/21 14:36
tetrachloro-m-xylene = 87% pg: 41, 330-333, 336, 381

$$C_x = \frac{85930 \times 0.10\ \mu g\cdot mL^{-1}}{194251 \times 1.2646} = 0.0350\ \mu g\cdot mL^{-1}$$ ✓

$$\%R = \left(\frac{0.0350\ \mu g\cdot mL^{-1}}{0.040\ \mu g\cdot mL^{-1}}\right) \times 100 = 87.5\%$$ ✓

500-210257-1 PCB

Sample : SSR-ST-B04-211221 12/30/21 18:13
PCB-1248 = 1.7 mg.kg^{-1} pg: 29, 290-292, 483

PCB 1248 Peak 2 $C_x = \frac{137150 \times 0.10\ \mu g \cdot mL^{-1}}{211063 \times 0.0443} = 1.47\ \mu g \cdot mL^{-1}$ ✓

BW 1/21/22 $C_x = \frac{\cancel{0.4352}\ \cancel{1.47}\ 0.2564\ \mu g \cdot mL^{-1} \times 5.0\ mL \times DF\ 20}{0.0158679\ kg \times 1000\ \mu g \cdot mg^{-1} \times 0.926} = 1.7\ mg \cdot Kg^{-1}$

Internal Standard : SSR-SS-A01-211221 12/30/21 15:38
pg: 154, 135, 578

1-bromo-2-nitrobenzene:

BW 1/21/22 $\frac{197715}{\cancel{197715}\ 264621} \times 100 = 74.7\%$ ✓

$\Delta RT = 1.983 - 1.825 = -0.042$ ✓

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Adjusted: RL/MDL

SSR-ST-B04-211221-D 12/30/21 18:28
Pg: 31, 42,

PCB-1248 RL = 0.35 mg·kg^{-1}, MDL = 0.17 mg·kg^{-1}

Unadjusted PCB-1248 RL = 0.017 mg·kg^{-1}, MDL = 0.0099 mg·kg^{-1}

Adjusted PCB 1248 RL: ✓

BW 1/21/22

$$\frac{0.017\,mg\cdot kg^{-1} \times 5.0mL \times DF20 \times \cancel{15.5696g}\ 15.0}{0.924 \times 5.0mL \times \cancel{15.0g}\ 15.5696g} = 0.35\,mg\cdot kg^{-1}$$

Adjusted PCB 1248 MDL: ✓

$$\frac{0.0099\,mg\cdot kg^{-1} \times 5mL \times DF20 \times 15g}{0.924 \times 5mL \times 15.5696g} = 0.16\,mg\cdot kg^{-1}$$

RMG SITE PCB INITAL CALIBRATION RECALCULATION
EUROFINS TESTAMERICA REPORT NO. 500-210257-1

500-210257-1

Initial Calibration - PCB by Internal Standard — Aroclor 1016 — Pages: 381-406

GC-ECD Instrument: INST23-24 — Signal #1 — Column: ZB-5

Level	**1**	**2**	**3**	**4**	**5**	**6**
Concentration (µg/mL)	**0.040**	**0.100**	**0.250**	**0.500**	**0.750**	**1.000**
Aroclor 1016-1 (Response)	2754	6326	15738	28962	41431	59444
Aroclor 1016-1 (RF)	0.0336	0.0348	0.0313	0.0281	0.0266	0.0272
Aroclor 1016-2 (Response)	6578	16108	45678	94085	141378	205212
Aroclor 1016-2 (RF)	0.0802	0.0885	0.0908	0.0914	0.0907	0.0939
Aroclor 1016-3 (Response)	3033	8013	22168	43796	64106	85602
Aroclor 1016-3 (RF)	0.0370	0.0440	0.0441	0.0425	0.0411	0.0392
Aroclor 1016-4 (Response)	2728	5622	14278	30212	41133	58549
Aroclor 1016-4 (RF)	0.0333	0.0309	0.0284	0.0293	0.0264	0.0268
Aroclor 1016-5 (Response)	2798	6403	17479	37019	51216	68788
Aroclor 1016-5 (RF)	0.0341	0.0352	0.0347	0.0360	0.0329	0.0315
IS: 1-bromo-2-nitrobenzene (Response)	204983	181957	201282	205937	207855	218517
IS: 1-bromo-2-nitrobenzene (Concentration µg/mL)	0.1	0.1	0.1	0.1	0.1	0.1

	Aroclor 1016-Peak 1	**Aroclor 1016-Peak 2**	**Aroclor 1016-Peak 3**	**Aroclor 1016-Peak 4**	**Aroclor 1016-Peak 5**
Std Dev:	0.003460	0.004745	0.002818	0.002602	0.001639
Mean RF:	0.0303	0.0893	0.0413	0.0292	0.0341
%RSD:	11.4%	5.3%	6.8%	8.9%	4.8%
	✓	✓	✓	✓	✓

500-210257-1 Mercury

ICV : 500-636776/8 — 1/6/22 08:11

Hg = 106% — pg: 686, 991-992

$C_x = (24693)(8.6495E-5) + (-1.3882E-2) = 2.2\ \mu g \cdot L^{-1}$

$\%R = \cancel{2.2} \left(\frac{2.12\ \mu g \cdot L^{-1}}{2.0\ \mu g \cdot L^{-1}}\right) \times 100 = 106\%$

BW 1/22/22

ICB : 500-636776/9 — 1/6/22 08:16

Hg = < 0.20 µg·L⁻¹ — pg: 692, 991-992

$C_x = (368)(8.6495E-5) + (-1.3882E-2) = 0.018\ \mu g \cdot L^{-1}$

CRA : 500-636776/10 — 1/6/22 08:18

Hg = 109%, 0.218 µg·L⁻¹ — pg: 689, 991-992

$C_x = (2677)(8.6495E-5) + (-1.3882E-2) = 0.218\ \mu g \cdot L^{-1}$

$\%R = \left(\frac{0.218}{0.20}\right) \times 100 = 109\%$

MB : 500-636634/12-A — 1/6/22 09:06

Hg = < 0.017 mg·Kg⁻¹ — pg: 95, 991-992, 727

$C_x = (358)(8.6495E-5) + (-1.3882E-2) = 0.0171\ \mu g \cdot L^{-1}$

$C_x = \frac{0.0171\ \mu g \cdot L^{-1} \times 0.050\ L}{0.00060\ Kg \times 1000\ \mu g \cdot mg^{-1}} = 0.0014\ mg \cdot Kg^{-1}$

500-210257-1 Mercury

LCS: 500-636634/13-A   1/6/22 09:08
Hg = 108 %, 0.180 mg·kg^{-1} pg: 45, 991-992, 727

$$C_x = (25083)(8.6495E-5) + (-1.3882E-2) = 2.1557\ \mu g \cdot L^{-1}$$

$$C_x = \frac{2.1557\ \mu g \cdot L^{-1} \times 0.050\ L}{0.00060\ kg \times 1000\ \mu g \cdot mg^{-1}} = 0.180\ mg \cdot kg^{-1}$$

$$\%R = \left(\frac{0.180\ mg \cdot kg^{-1}}{0.167\ mg \cdot kg^{-1}}\right) \times 100 = 108\ \%$$

MS: 500-210257-9   1/6/22 09:40
SSR-ST-B04-211221   pg: 45, 991-992, 727, 1018
Hg = 529 %, 0.720 mg·kg^{-1}

$$C_x = (102303)(8.6495E-5) + (-1.3882E-2) = 8.8348\ \mu g \cdot L^{-1}$$

$$C_x = \frac{8.8348\ \mu g \cdot L^{-1} \times 0.050\ L}{0.0006621\ kg \times 1000\ \mu g \cdot mg^{-1} \times 0.9264} = 0.720\ mg \cdot kg^{-1}$$

$$\%R = \left(\frac{0.720 - 0.29}{0.0815}\right) \times 100 = 528\ \%$$

500-210257-1 Mercury

MSD : 500-210257-9 1/6/22 09:43

SSR-ST-B04-211221 pg: 45, 991-992, 724

$$C_x = (25662)(8.6495E-5) + (-1.3882E-2) = 2.2058 \ \mu g \cdot L^{-1}$$

$$C_x = \frac{2.2058 \ \mu g \cdot L^{-1} \times 0.050 \ L}{0.0006590 \ Kg \times 1000 \ \mu g \cdot mg^{-1} \times 0.9264} = 0.181 \ mg \cdot Kg^{-1}$$

$$\%R = \left(\frac{0.181 - 0.29}{0.0819}\right) \times 100 = -133\%$$ ✓

$$RPD = \left[\frac{0.720 - 0.181}{\left(\frac{0.720 + 0.181}{2}\right)}\right] \times 100 = 120\%$$ ✓

Lab Duplicate : SSR-ST-B04-211221 ~~SS~~ 1/6/22 09:37

Hg = 58% pg 45

$$RPD = \left[\frac{0.523 - 0.29}{\left(\frac{0.523 + 0.29}{2}\right)}\right] \times 100 = 57.3\%$$ ✓

500-210257-1 Mercury

Opening CCV : 500-636776/32 1/6/22 09:02
Hg = 117% pg: 686, 991-992

$$C_x = (13654)(8.6495E-5) + (-1.3882E-2) = 1.17\ \mu g \cdot L^{-1}$$ ✓

$$\%R = \left(\frac{1.17}{1.00}\right) \times 100 = 117\%$$ ✓

Closing CCV : 500-636776/44 1/6/22 09:27
Hg = 103% pg: 686, 991-992

$$C_x = (12095)(8.6495E-5) + (-1.3882E-2) = 1.03\ \mu g \cdot L^{-1}$$

$$\%R = \left(\frac{1.03}{1.00}\right) \times 100 = 103\%$$ ✓

Opening CCB : 500-636776/33 1/6/22 09:04
Hg = 0.168 μg·L pg: 692, 991-992

$$C_x = (2101)(8.6495E-5) + (-1.3882E-2) = 0.1678\ \mu g \cdot L^{-1}$$

Closing CCB : 500-636776/45 1/6/22 09:30
Hg = <0.20 μg·L⁻¹ pg: 692, 991-992

$$C_x = (-234)(8.6495E-5) + (-1.3882E-2) = -0.034\ \mu g \cdot L^{-1}$$

4

500-210257-1 Mercury

Sample: SSR-SS-B01-211221 1/6/22 09:57

$Hg = 1.1\ mg \cdot kg^{-1}$ pg: 23, 991-992

$C_x = (30534)(8.6495E-5) + (-1.3882E-2) = 2.6272\ \mu g \cdot L^{-1}$

$$C_x = \frac{2.6272\ \mu g \cdot L^{-1} \times 0.050\ L \times DF5}{0.0006843\ kg \times 1000\ \mu g \cdot mg^{-1} \times 0.862} = 1.1\ mg \cdot kg^{-1}$$

Adjusted RL/MDL: SSR-SS-B01-211221 1/6/22 09:57

$Hg\ RL = 0.085\ mg \cdot kg^{-1}$, $MDL = 0.028\ mg \cdot kg^{-1}$
pgs: 23, 45, 727

Unadjusted $Hg\ RL = 0.017\ mg \cdot kg^{-1}$, $MDL = 0.0056\ mg \cdot kg^{-1}$

Adjusted Hg RL:

$$\frac{0.017\ mg \cdot kg \times 50mL \times 0.6g \times DF5}{50mL \times 0.6843g \times 0.862} = 0.085\ mg \cdot kg^{-1}$$

Adjusted Hg MDL:

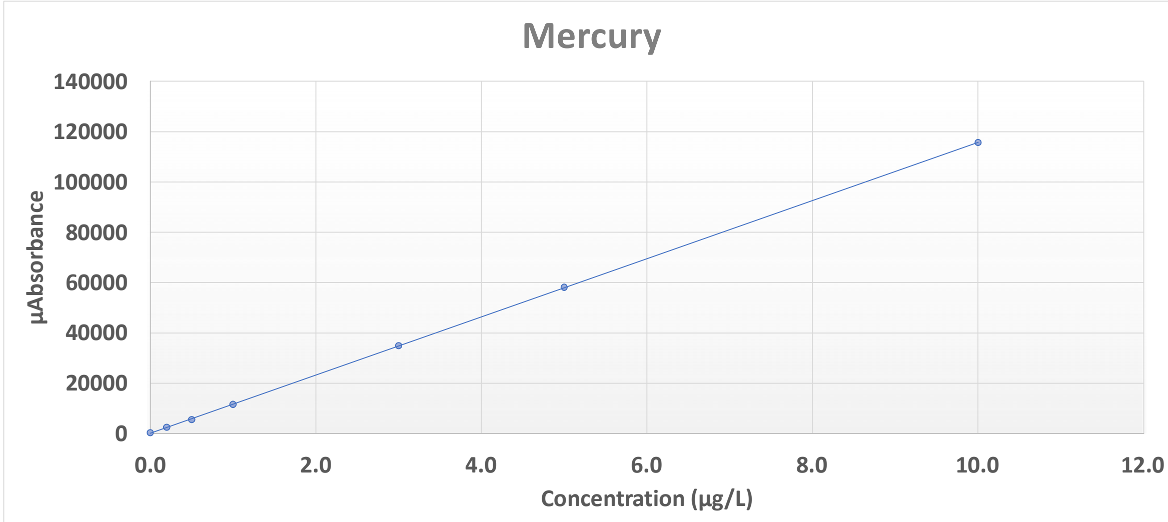
$$\frac{0.0056\ mg \cdot kg^{-1} \times 50mL \times 0.6g \times DF5}{50mL \times 0.6843g \times 0.862} = 0.028\ mg \cdot kg^{-1}$$

RMG SITE MERCURY INITAL CALIBRATION RECALCULATION
EUROFINS TESTAMERICA REPORT NO. 500-210257-1

500-210257-1
Initial Calibration **Mercury**
CVAA Page: 991-992

Concentration (µg/L)	µAbsorbance
0.0	379
0.2	2513
0.5	5588
1.0	11611
3.0	34954
5.0	58173
10.0	115664

Slope: 11561.07
Intercept: 161.26
R: 0.9999882 ✓



Standard unweighted linear equation y=m*x+b
Leeman format weighted linear equation y=1/B*x+c *The equation is used when the mercury instrument utalizes weighted linear regression

Cs (x)

Concentration (µg/L)	y1	std dev	avg	%RSD	1/std dev^2	I		Wi	Wi*Csi	Wi*I	B numerator	B demonator	C
0	379	1	379	0.2639	1	0	379	636673.04	55.44	0.0000E+00	644139.3429	55.44142857	**-1.3949E-02** ✓
0.20	2513	1	2513.00	0.0398	1	0.2	2513	552375.04	47.84	110475.01	598359.28	47.84142857	
0.50	5588	1	5588.00	0.0179	1	0.5	5588	439172.74	37.49	219586.37	529690.24	37.49142857	
1.00	11611	1	11611.00	0.0086	1	1	11611	267797.64	23.04	267797.64	415244.64	23.04142857	
3.00	34954	1	34954.00	0.0029	1	3	34954	2933.54	0.24	8800.63	-42502.76	0.241428571	
5.00	58173	1	58173.00	0.0017	1	5	58173	389776.24	33.44	1948881.21	-500194.16	33.44142857	
10.00	115664	1	115664.00	0.0009	1	10	115664	4173218.54	361.44	41732185.43	-1644177.66	361.4414286	

Wi sum = 7
sum wi*Csi = 19.7
Cs avg = 2.814285714
sum Wi*I = 228882

I avg = 32697.42857

sum B num = 6461946.80
sum B dem = 558.94

B = 11561.07418
1/B = **8.6497E-05** ✓

500-210257-1 Metals

ICAL: ICP6 1/10/22 Daily ICAL ✓
All single point ICALs, thus all R=1.0
and % diff from true concentration

ICV: 500-637181/7 1/10/22 10:32
Mn = 93 % pg: 683, 764 ✓

Mn: form = 3.72 mg/L raw = 3.717402 $mg \cdot L^{-1}$ ✓

$$Mn = \left(\frac{3.717}{4.0}\right) \times 100 = 92.9\%$$ ✓

ICB 500-637181/8 1/10/22 10:36
Cr = <0.010 $mg \cdot L^{-1}$ pg: 690, 767 ✓

Cr: form = <0.010 $mg \cdot L^{-1}$ raw = 0.0004995 $mg \cdot L^{-1}$

CRI: 500-637181/8 1/10/22 10:36
Cd = 105% pg: 688, 772 ✓

Cd: form = 0.00419 $mg \cdot L^{-1}$ raw = 0.0041853 $mg \cdot L^{-1}$ ✓

$$Cd = \left(\frac{0.00419}{0.00400}\right) \times 100 = 105\%$$ ✓

500-210~~259~~ 257-1 Metals

BW 1/22/22

Opening CCV : 500-637181/54 1/10/22 13:09
$Pb = 102\%$ pg: 684, 893 ✓

Pb: form = 0.508 $mg \cdot L^{-1}$ raw = 0.5075392 $mg \cdot L^{-1}$

$$Pb = \left(\frac{0.5075\ mg \cdot L^{-1}}{0.500\ mg \cdot L^{-1}} \right) \times 100 = 102\% \checkmark$$

Closing CCV : 500-637181 1/10/22 13:47
$Ni = 102\%$ pg: 684, 921 ✓

Ni: form = 0.512 $mg \cdot L^{-1}$ raw = 0.5123572 $mg \cdot L^{-1}$

$$Ni = \left(\frac{0.512}{0.500} \right) \times 100 = 102\% \checkmark$$

Opening CCB : 500-637181/67 1/10/22 13:51
As = <0.010 $mg \cdot L^{-1}$ pg: 691, 923

As: form = <0.010 $mg \cdot L^{-1}$ raw = 0.0007638 $mg \cdot L^{-1}$

~~Opening~~ Closing CCB : 500-637181/79 1/10/22 14:29
Co = <0.0050 $mg \cdot L^{-1}$ pg: 691, 950

Co: form = <0.0050 $mg \cdot L^{-1}$ raw = 0.0001028 $mg \cdot L^{-1}$

500-210~~259~~257-1 Metals

BW 1/22/22

MB: 500-636948/1-A 1/10/22 11:28

$Cd = 0.0673\ mg \cdot Kg^{-1}$ pg: 43, 806, 725 ✓

$$Cd = \frac{0.0006729\ mg \cdot L^{-1} \times 0.10\ L}{0.0010\ Kg} = 0.0673\ mg \cdot Kg^{-1}$$

ICSA: 500-637181/11 1/10/22 10:46

Fe = 100 % pg: 695, 775

Fe: form = 200 $mg \cdot L^{-1}$ raw = 199.6437 $mg \cdot L^{-1}$

$$Fe = \left(\frac{199.6437}{200.0}\right) \times 100 = 99.8\ \%$$ ✓

ICSAB: 500-637181/12 1/10/22 10:49

Mn = 99 % pg: 696, 778 ✓

Mn: form = 0.496 $mg \cdot L^{-1}$ raw = 0.4960141 $mg \cdot L^{-1}$

$$Mn = \left(\frac{0.496}{0.500}\right) \times 100 = 99.2\ \%$$ ✓

MS SSR-SS-A01-211221 1/10/22 13:32

As = 168 %, 28.5 $mg \cdot Kg^{-1}$ pg: 44, 910, 725, 1018

$$As = \frac{0.0256059\ mg \cdot L^{-1} \times 0.10L \times DF10}{0.0010276\ Kg \times 0.8733} = 28.5\ mg \cdot Kg^{-1}$$ ✓

$$\%R = \left(\frac{28.5 - 9.8}{11.1}\right) \times 100 = 168\ \%$$ ✓

500-210~~252~~257-1 Metals

BW 1/22/22

MSD : SSR-SS-A01-211221 1/10/22 13:35
As = 268 %, RPD = 32 % pg: 44, 912, 725, 1018
As = 39.4 mg·kg⁻¹

$$As = \frac{0.0357495\ mg \cdot L^{-1} \times 0.102 \times DF\ 10}{0.0010399\ kg \times 0.8733} = 39.4\ mg \cdot kg^{-1}$$

$$\%R = \left(\frac{39.4 - 9.8}{11.0}\right) \times 100 = 269\ \%$$

$$RPD = \left[\frac{39.4 - 28.5}{\left(\frac{39.4 + 28.5}{2}\right)}\right] = 32\ \%$$

Lab Duplicate : SSR-SS-A01-211221 pg: 44
Cr = 64 %

$$Cr = \left[\frac{300 - 150}{\left(\frac{300 + 150}{2}\right)}\right] = 67\ \%$$

RPD sample results on lab report summary page are rounded values.

500-210 ~~251~~ 257-1 Metals

BW 1/22/22

LCS: 500-636948/2-A 1/10/22 11:32

Mn = 92 %, 46.1 mg·kg⁻¹ pg: 43, 808, 425

$$Mn = \frac{0.4609515\ mg \cdot L^{-1} \times 0.10L}{0.0010\ Kg} = 46.1\ mg \cdot Kg^{-1}$$ ✓

$$\%R = \left(\frac{46.1}{50.0}\right) \times 100 = 92.2\%$$ ✓

Serial Dilution: 500-210257-1 1/10/22 11:51

Cr = 11% pg: 705, 824, 725, 1018

$$Cr = \frac{0.5515527\ mg \cdot L^{-1} \times 0.10L \times DF5}{0.0011835\ Kg \times 0.8733} = 267\ mg \cdot Kg^{-1}$$ ✓

$$\%D = \left(\frac{300-267}{300}\right) \times 100 = 11\%$$ ✓

Sample: SSR-SS-A01-211221 1/10/22 13:22

Pb = 58,000 mg·Kg⁻¹ pg: 13, 905, 1018, 725

$$Pb = \frac{59.63404\ mg \cdot L^{-1} \times 0.10L \times DF10}{0.0011835\ Kg \times 0.8733} = 57,698\ mg \cdot Kg^{-1}$$

$\sim 58,000\ mg \cdot Kg^{-1}$ ✓

500-210257-1 Metals

Adjusted RL/MDL: SSR-ST-A03-211221 1/10/22 12:09 & 13:41

pgs: 17, 43, 725, 1018

Cd RL = 0.20 $mg \cdot kg^{-1}$
Cr MDL = 4.8 $mg \cdot kg^{-1}$

Unadjusted Cd RL = 0.20 $mg \cdot kg^{-1}$, Cr MDL = 0.50 $mg \cdot kg^{-1}$

Adjusted Cd RL:

$$\frac{0.20\,mg \cdot kg^{-1} \times 100\,mL \times 1\,g \times DF1}{100\,mL \times 1.1548\,g \times 0.8838} = 0.20\,mg \cdot kg^{-1}$$ ✓

Adjusted Cr MDL:

$$\frac{0.50\,mg \cdot kg^{-1} \times 100\,mL \times 1\,g \times DF10}{100\,mL \times 1.1548\,g \times 0.8838} = 4.8\,mg \cdot kg^{-1}$$ ✓

RMG SITE SOIL ANALYTICAL RESULTS SUMMARY
EUROFINS TESTAMERICA REPORT NO. 500-210257-1

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-RD-A04-211221	6010B	Arsenic	7.1		1.8	5.4	mg/Kg	7.1	
SSR-RD-A04-211221	6010B	Cadmium	3.5	B	0.039	0.21	mg/Kg	3.5	
SSR-RD-A04-211221	6010B	Chromium	200		0.53	1.1	mg/Kg	200	
SSR-RD-A04-211221	6010B	Cobalt	6.4		0.7	2.7	mg/Kg	6.4	
SSR-RD-A04-211221	6010B	Iron	75000		56	110	mg/Kg	75000	
SSR-RD-A04-211221	6010B	Lead	270		1.2	2.7	mg/Kg	270	
SSR-RD-A04-211221	6010B	Manganese	3100		0.78	5.4	mg/Kg	3100	
SSR-RD-A04-211221	6010B	Nickel	73		1.6	5.4	mg/Kg	73	
SSR-RD-A04-211221	7471B	Mercury	0.0058	U	0.0058	0.018	mg/Kg	0.0058	U
SSR-RD-A04-211221	8082A	PCB-1016	0.14	U F2 F1	0.14	0.35	mg/Kg	0.35	U
SSR-RD-A04-211221	8082A	PCB-1221	0.14	U	0.14	0.35	mg/Kg	0.35	U
SSR-RD-A04-211221	8082A	PCB-1232	0.096	U	0.096	0.35	mg/Kg	0.35	U
SSR-RD-A04-211221	8082A	PCB-1242	0.14	U	0.14	0.35	mg/Kg	0.35	U
SSR-RD-A04-211221	8082A	PCB-1248	0.87		0.17	0.35	mg/Kg	0.87	J+
SSR-RD-A04-211221	8082A	PCB-1254	0.12	U	0.12	0.35	mg/Kg	0.35	U
SSR-RD-A04-211221	8082A	PCB-1260	0.13	U F2 F1	0.13	0.35	mg/Kg	0.35	U
SSR-RD-A04-211221	8082A	Polychlorinated biphenyls, Total	0.87		0.096	0.35	mg/Kg	0.87	J
SSR-RD-A04-211221	9045D	pH	8.1		0.2	0.2	SU	8.1	J
SSR-RD-A04-211221	9045D	Temperature	20.7		2	2	°C	20.7	
SSR-SS-A01-211221	6010B	Arsenic	9.8	F1 F2	3.3	9.7	mg/Kg	9.8	J+
SSR-SS-A01-211221	6010B	Cadmium	7.1	B F1 F2	0.035	0.19	mg/Kg	7.1	J+
SSR-SS-A01-211221	6010B	Chromium	150	F2 V	0.48	0.97	mg/Kg	150	J-
SSR-SS-A01-211221	6010B	Cobalt	14		0.13	0.48	mg/Kg	14	
SSR-SS-A01-211221	6010B	Iron	160000	F2	100	190	mg/Kg	160000	
SSR-SS-A01-211221	6010B	Lead	58000		2.2	4.8	mg/Kg	58000	J
SSR-SS-A01-211221	6010B	Manganese	3600	F2	1.4	9.7	mg/Kg	3600	
SSR-SS-A01-211221	6010B	Nickel	190	F1 F2	2.8	9.7	mg/Kg	190	J+
SSR-SS-A01-211221	7471B	Mercury	0.64		0.006	0.018	mg/Kg	0.64	
SSR-SS-A01-211221	8082A	PCB-1016	0.15	U	0.15	0.38	mg/Kg	0.38	U
SSR-SS-A01-211221	8082A	PCB-1221	0.15	U	0.15	0.38	mg/Kg	0.38	U
SSR-SS-A01-211221	8082A	PCB-1232	0.1	U	0.1	0.38	mg/Kg	0.38	U
SSR-SS-A01-211221	8082A	PCB-1242	0.15	U	0.15	0.38	mg/Kg	0.38	U
SSR-SS-A01-211221	8082A	PCB-1248	2.1		0.18	0.38	mg/Kg	2.1	J+

RMG SITE SOIL ANALYTICAL RESULTS SUMMARY
EUROFINS TESTAMERICA REPORT NO. 500-210257-1

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-A01-211221	8082A	PCB-1254	0.13	U	0.13	0.38	mg/Kg	0.38	U
SSR-SS-A01-211221	8082A	PCB-1260	0.14	U	0.14	0.38	mg/Kg	0.38	U
SSR-SS-A01-211221	8082A	Polychlorinated biphenyls, Total	2.1		0.1	0.38	mg/Kg	2.1	J
SSR-SS-A01-211221	9045D	pH	8.2		0.2	0.2	SU	8.2	J
SSR-SS-A01-211221	9045D	Temperature	20.8		2	2	°C	20.8	
SSR-SS-A02-211221	6010B	Arsenic	12		1.9	5.5	mg/Kg	12	
SSR-SS-A02-211221	6010B	Cadmium	2.4	B	0.039	0.22	mg/Kg	2.4	
SSR-SS-A02-211221	6010B	Chromium	290		2.7	5.5	mg/Kg	290	
SSR-SS-A02-211221	6010B	Cobalt	8.4		0.14	0.55	mg/Kg	8.4	
SSR-SS-A02-211221	6010B	Iron	190000		57	110	mg/Kg	190000	
SSR-SS-A02-211221	6010B	Lead	210		1.3	2.7	mg/Kg	210	
SSR-SS-A02-211221	6010B	Manganese	3700		0.79	5.5	mg/Kg	3700	
SSR-SS-A02-211221	6010B	Nickel	82		1.6	5.5	mg/Kg	82	
SSR-SS-A02-211221	7471B	Mercury	0.28		0.0063	0.019	mg/Kg	0.28	
SSR-SS-A02-211221	8082A	PCB-1016	0.15	U	0.15	0.38	mg/Kg	0.38	U
SSR-SS-A02-211221	8082A	PCB-1221	0.15	U	0.15	0.38	mg/Kg	0.38	U
SSR-SS-A02-211221	8082A	PCB-1232	0.1	U	0.1	0.38	mg/Kg	0.38	U
SSR-SS-A02-211221	8082A	PCB-1242	0.15	U	0.15	0.38	mg/Kg	0.38	U
SSR-SS-A02-211221	8082A	PCB-1248	1		0.18	0.38	mg/Kg	1.0	J+
SSR-SS-A02-211221	8082A	PCB-1254	0.13	U	0.13	0.38	mg/Kg	0.38	U
SSR-SS-A02-211221	8082A	PCB-1260	0.14	U	0.14	0.38	mg/Kg	0.38	U
SSR-SS-A02-211221	8082A	Polychlorinated biphenyls, Total	1		0.1	0.38	mg/Kg	1.0	J
SSR-SS-A02-211221	9045D	pH	8.1		0.2	0.2	SU	8.1	J
SSR-SS-A02-211221	9045D	Temperature	20.8		2	2	°C	20.8	
SSR-SS-B01-211221	6010B	Arsenic	11		3.9	11	mg/Kg	11	
SSR-SS-B01-211221	6010B	Cadmium	3.7	B	0.041	0.23	mg/Kg	3.7	
SSR-SS-B01-211221	6010B	Chromium	770		5.7	11	mg/Kg	770	
SSR-SS-B01-211221	6010B	Cobalt	7.7		1.5	5.7	mg/Kg	7.7	
SSR-SS-B01-211221	6010B	Iron	130000		120	230	mg/Kg	130000	
SSR-SS-B01-211221	6010B	Lead	400		2.7	5.7	mg/Kg	400	
SSR-SS-B01-211221	6010B	Manganese	6800		1.7	11	mg/Kg	6800	
SSR-SS-B01-211221	6010B	Nickel	76		3.3	11	mg/Kg	76	
SSR-SS-B01-211221	7471B	Mercury	1.1		0.028	0.085	mg/Kg	1.1	

RMG SITE SOIL ANALYTICAL RESULTS SUMMARY
EUROFINS TESTAMERICA REPORT NO. 500-210257-1

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-B01-211221	8082A	PCB-1016	0.15	U	0.15	0.38	mg/Kg	0.38	U
SSR-SS-B01-211221	8082A	PCB-1221	0.15	U	0.15	0.38	mg/Kg	0.38	U
SSR-SS-B01-211221	8082A	PCB-1232	0.1	U	0.1	0.38	mg/Kg	0.38	U
SSR-SS-B01-211221	8082A	PCB-1242	0.15	U	0.15	0.38	mg/Kg	0.38	U
SSR-SS-B01-211221	8082A	PCB-1248	0.69		0.18	0.38	mg/Kg	0.69	J+
SSR-SS-B01-211221	8082A	PCB-1254	0.13	U	0.13	0.38	mg/Kg	0.38	U
SSR-SS-B01-211221	8082A	PCB-1260	0.14	U	0.14	0.38	mg/Kg	0.38	U
SSR-SS-B01-211221	8082A	Polychlorinated biphenyls, Total	0.69		0.1	0.38	mg/Kg	0.69	J
SSR-SS-B01-211221	9045D	pH	8.5		0.2	0.2	SU	8.5	J
SSR-SS-B01-211221	9045D	Temperature	20.7		2	2	°C	20.7	
SSR-SS-B02-211221	6010B	Arsenic	6.8		2.1	6.1	mg/Kg	6.8	
SSR-SS-B02-211221	6010B	Cadmium	4.1	B	0.044	0.24	mg/Kg	4.1	J+
SSR-SS-B02-211221	6010B	Chromium	180		0.6	1.2	mg/Kg	180	
SSR-SS-B02-211221	6010B	Cobalt	7.8		0.79	3	mg/Kg	7.8	
SSR-SS-B02-211221	6010B	Iron	78000		63	120	mg/Kg	78000	
SSR-SS-B02-211221	6010B	Lead	460		1.4	3	mg/Kg	460	
SSR-SS-B02-211221	6010B	Manganese	2700		0.88	6.1	mg/Kg	2700	
SSR-SS-B02-211221	6010B	Nickel	69		1.8	6.1	mg/Kg	69	
SSR-SS-B02-211221	7471B	Mercury	0.035		0.0065	0.02	mg/Kg	0.035	J+
SSR-SS-B02-211221	8082A	PCB-1016	0.15	U	0.15	0.39	mg/Kg	0.39	U
SSR-SS-B02-211221	8082A	PCB-1221	0.15	U	0.15	0.39	mg/Kg	0.39	U
SSR-SS-B02-211221	8082A	PCB-1232	0.11	U	0.11	0.39	mg/Kg	0.39	U
SSR-SS-B02-211221	8082A	PCB-1242	0.15	U	0.15	0.39	mg/Kg	0.39	U
SSR-SS-B02-211221	8082A	PCB-1248	0.71		0.19	0.39	mg/Kg	0.71	J+
SSR-SS-B02-211221	8082A	PCB-1254	0.13	U	0.13	0.39	mg/Kg	0.39	U
SSR-SS-B02-211221	8082A	PCB-1260	0.15	U	0.15	0.39	mg/Kg	0.39	U
SSR-SS-B02-211221	8082A	Polychlorinated biphenyls, Total	0.71		0.11	0.39	mg/Kg	0.71	J
SSR-SS-B02-211221	9045D	pH	8.6		0.2	0.2	SU	8.6	J
SSR-SS-B02-211221	9045D	Temperature	20.2		2	2	°C	20.2	
SSR-SS-C01-211221	6010B	Arsenic	12		2	5.8	mg/Kg	12	
SSR-SS-C01-211221	6010B	Cadmium	1.6	B	0.042	0.23	mg/Kg	1.6	J+
SSR-SS-C01-211221	6010B	Chromium	330		2.9	5.8	mg/Kg	330	
SSR-SS-C01-211221	6010B	Cobalt	3.8		0.76	2.9	mg/Kg	3.8	

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-C01-211221	6010B	Iron	160000		61	120	mg/Kg	160000	
SSR-SS-C01-211221	6010B	Lead	160		1.3	2.9	mg/Kg	160	
SSR-SS-C01-211221	6010B	Manganese	6700		0.84	5.8	mg/Kg	6700	
SSR-SS-C01-211221	6010B	Nickel	26		1.7	5.8	mg/Kg	26	
SSR-SS-C01-211221	7471B	Mercury	0.28		0.0066	0.02	mg/Kg	0.28	
SSR-SS-C01-211221	8082A	PCB-1016	0.16	U	0.16	0.4	mg/Kg	0.40	U
SSR-SS-C01-211221	8082A	PCB-1221	0.16	U	0.16	0.4	mg/Kg	0.40	U
SSR-SS-C01-211221	8082A	PCB-1232	0.11	U	0.11	0.4	mg/Kg	0.40	U
SSR-SS-C01-211221	8082A	PCB-1242	0.16	U	0.16	0.4	mg/Kg	0.40	U
SSR-SS-C01-211221	8082A	PCB-1248	0.43		0.19	0.4	mg/Kg	0.43	J+
SSR-SS-C01-211221	8082A	PCB-1254	0.14	U	0.14	0.4	mg/Kg	0.40	U
SSR-SS-C01-211221	8082A	PCB-1260	0.15	U	0.15	0.4	mg/Kg	0.40	U
SSR-SS-C01-211221	8082A	Polychlorinated biphenyls, Total	0.43		0.11	0.4	mg/Kg	0.43	J
SSR-SS-C01-211221	9045D	pH	9.7		0.2	0.2	SU	9.7	J
SSR-SS-C01-211221	9045D	Temperature	20.5		2	2	°C	20.5	
SSR-ST-A03-211221	6010B	Arsenic	21		3.4	9.8	mg/Kg	21	
SSR-ST-A03-211221	6010B	Cadmium	5	B	0.035	0.2	mg/Kg	5.0	
SSR-ST-A03-211221	6010B	Chromium	440		4.8	9.8	mg/Kg	440	
SSR-ST-A03-211221	6010B	Cobalt	16		1.3	4.9	mg/Kg	16	
SSR-ST-A03-211221	6010B	Iron	230000		100	200	mg/Kg	230000	
SSR-ST-A03-211221	6010B	Lead	430		2.3	4.9	mg/Kg	430	
SSR-ST-A03-211221	6010B	Manganese	4000		1.4	9.8	mg/Kg	4000	
SSR-ST-A03-211221	6010B	Nickel	310		2.9	9.8	mg/Kg	310	
SSR-ST-A03-211221	7471B	Mercury	0.9		0.0061	0.018	mg/Kg	0.9	
SSR-ST-A03-211221	8082A	PCB-1016	0.15	U	0.15	0.37	mg/Kg	0.37	U
SSR-ST-A03-211221	8082A	PCB-1221	0.15	U	0.15	0.37	mg/Kg	0.37	U
SSR-ST-A03-211221	8082A	PCB-1232	0.1	U	0.1	0.37	mg/Kg	0.37	U
SSR-ST-A03-211221	8082A	PCB-1242	0.14	U	0.14	0.37	mg/Kg	0.37	U
SSR-ST-A03-211221	8082A	PCB-1248	1.1		0.18	0.37	mg/Kg	1.1	J+
SSR-ST-A03-211221	8082A	PCB-1254	0.13	U	0.13	0.37	mg/Kg	0.37	U
SSR-ST-A03-211221	8082A	PCB-1260	0.14	U	0.14	0.37	mg/Kg	0.37	U
SSR-ST-A03-211221	8082A	Polychlorinated biphenyls, Total	1.1		0.1	0.37	mg/Kg	1.1	J
SSR-ST-A03-211221	9045D	pH	8.2		0.2	0.2	SU	8.2	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-A03-211221	9045D	Temperature	20.6		2	2	°C	20.6	
SSR-ST-B00-211221	6010B	Arsenic	0.59	J	0.35	1	mg/Kg	0.59	J
SSR-ST-B00-211221	6010B	Cadmium	0.19	J B	0.037	0.21	mg/Kg	0.21	U
SSR-ST-B00-211221	6010B	Chromium	140		0.51	1	mg/Kg	140	
SSR-ST-B00-211221	6010B	Cobalt	0.67	U	0.67	2.6	mg/Kg	2.6	U
SSR-ST-B00-211221	6010B	Iron	13000		11	21	mg/Kg	13000	
SSR-ST-B00-211221	6010B	Lead	11		0.24	0.51	mg/Kg	11	J+
SSR-ST-B00-211221	6010B	Manganese	2900		0.75	5.1	mg/Kg	2900	
SSR-ST-B00-211221	6010B	Nickel	7.5		0.3	1	mg/Kg	7.5	J+
SSR-ST-B00-211221	7471B	Mercury	0.0054	U	0.0054	0.016	mg/Kg	0.016	U
SSR-ST-B00-211221	8082A	PCB-1016	0.0066	U	0.0066	0.017	mg/Kg	0.017	U
SSR-ST-B00-211221	8082A	PCB-1221	0.0066	U	0.0066	0.017	mg/Kg	0.017	U
SSR-ST-B00-211221	8082A	PCB-1232	0.0045	U	0.0045	0.017	mg/Kg	0.017	U
SSR-ST-B00-211221	8082A	PCB-1242	0.0065	U	0.0065	0.017	mg/Kg	0.017	U
SSR-ST-B00-211221	8082A	PCB-1248	0.008	U	0.008	0.017	mg/Kg	0.017	U
SSR-ST-B00-211221	8082A	PCB-1254	0.0057	U	0.0057	0.017	mg/Kg	0.017	U
SSR-ST-B00-211221	8082A	PCB-1260	0.0063	U	0.0063	0.017	mg/Kg	0.017	U
SSR-ST-B00-211221	8082A	Polychlorinated biphenyls, Total	0.0045	U	0.0045	0.017	mg/Kg	0.017	U
SSR-ST-B00-211221	9045D	pH	8.7		0.2	0.2	SU	8.7	J
SSR-ST-B00-211221	9045D	Temperature	20.8		2	2	°C	20.8	
SSR-ST-B03-211221	6010B	Arsenic	7.1		1.6	4.8	mg/Kg	7.1	
SSR-ST-B03-211221	6010B	Cadmium	4.5	B	0.034	0.19	mg/Kg	4.5	
SSR-ST-B03-211221	6010B	Chromium	230		2.4	4.8	mg/Kg	230	
SSR-ST-B03-211221	6010B	Cobalt	7		0.62	2.4	mg/Kg	7.0	J+
SSR-ST-B03-211221	6010B	Iron	65000		49	95	mg/Kg	65000	
SSR-ST-B03-211221	6010B	Lead	370		1.1	2.4	mg/Kg	370	J+
SSR-ST-B03-211221	6010B	Manganese	3400		0.69	4.8	mg/Kg	3400	
SSR-ST-B03-211221	6010B	Nickel	50		1.4	4.8	mg/Kg	50	J+
SSR-ST-B03-211221	7471B	Mercury	0.46		0.0056	0.017	mg/Kg	0.46	
SSR-ST-B03-211221	8082A	PCB-1016	0.14	U	0.14	0.36	mg/Kg	0.36	U
SSR-ST-B03-211221	8082A	PCB-1221	0.14	U	0.14	0.36	mg/Kg	0.36	U
SSR-ST-B03-211221	8082A	PCB-1232	0.097	U	0.097	0.36	mg/Kg	0.36	U
SSR-ST-B03-211221	8082A	PCB-1242	0.14	U	0.14	0.36	mg/Kg	0.36	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-B03-211221	8082A	PCB-1248	1.4		0.17	0.36	mg/Kg	1.4	J+
SSR-ST-B03-211221	8082A	PCB-1254	0.12	U	0.12	0.36	mg/Kg	0.36	U
SSR-ST-B03-211221	8082A	PCB-1260	0.13	U	0.13	0.36	mg/Kg	0.36	U
SSR-ST-B03-211221	8082A	Polychlorinated biphenyls, Total	1.4		0.097	0.36	mg/Kg	1.4	J
SSR-ST-B03-211221	9045D	pH	8.3		0.2	0.2	SU	8.3	J
SSR-ST-B03-211221	9045D	Temperature	20.4		2	2	°C	20.4	
SSR-ST-B04-211221	6010B	Arsenic	31		3.6	10	mg/Kg	31	
SSR-ST-B04-211221	6010B	Cadmium	8	B	0.037	0.21	mg/Kg	8.0	
SSR-ST-B04-211221	6010B	Chromium	590		5.2	10	mg/Kg	590	
SSR-ST-B04-211221	6010B	Cobalt	45		1.4	5.2	mg/Kg	45	
SSR-ST-B04-211221	6010B	Iron	210000		110	210	mg/Kg	210000	
SSR-ST-B04-211221	6010B	Lead	1200		2.4	5.2	mg/Kg	1200	
SSR-ST-B04-211221	6010B	Manganese	4000		1.5	10	mg/Kg	4000	
SSR-ST-B04-211221	6010B	Nickel	2000		3	10	mg/Kg	2000	J
SSR-ST-B04-211221	7471B	Mercury	0.29	F1 F2	0.0054	0.016	mg/Kg	0.29	J
SSR-ST-B04-211221	8082A	PCB-1016	0.13	U	0.13	0.34	mg/Kg	0.34	U
SSR-ST-B04-211221	8082A	PCB-1221	0.13	U	0.13	0.34	mg/Kg	0.34	U
SSR-ST-B04-211221	8082A	PCB-1232	0.092	U	0.092	0.34	mg/Kg	0.34	U
SSR-ST-B04-211221	8082A	PCB-1242	0.13	U	0.13	0.34	mg/Kg	0.34	U
SSR-ST-B04-211221	8082A	PCB-1248	1.7		0.16	0.34	mg/Kg	1.7	J+
SSR-ST-B04-211221	8082A	PCB-1254	0.12	U	0.12	0.34	mg/Kg	0.34	U
SSR-ST-B04-211221	8082A	PCB-1260	0.13	U	0.13	0.34	mg/Kg	0.34	U
SSR-ST-B04-211221	8082A	Polychlorinated biphenyls, Total	1.7		0.092	0.34	mg/Kg	1.7	J
SSR-ST-B04-211221	9045D	pH	7.8		0.2	0.2	SU	7.8	J
SSR-ST-B04-211221	9045D	Temperature	20.3		2	2	°C	20.3	
SSR-ST-B04-211221-D	6010B	Arsenic	26		3.6	10	mg/Kg	26	
SSR-ST-B04-211221-D	6010B	Cadmium	8.9	B	0.038	0.21	mg/Kg	8.9	
SSR-ST-B04-211221-D	6010B	Chromium	550		5.2	10	mg/Kg	550	
SSR-ST-B04-211221-D	6010B	Cobalt	44		1.4	5.2	mg/Kg	44	
SSR-ST-B04-211221-D	6010B	Iron	260000		110	210	mg/Kg	260000	
SSR-ST-B04-211221-D	6010B	Lead	710		2.4	5.2	mg/Kg	710	
SSR-ST-B04-211221-D	6010B	Manganese	5300		1.5	10	mg/Kg	5300	
SSR-ST-B04-211221-D	6010B	Nickel	420		3	10	mg/Kg	420	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-B04-211221-D	7471B	Mercury	0.25		0.0057	0.017	mg/Kg	0.25	
SSR-ST-B04-211221-D	8082A	PCB-1016	0.14	U	0.14	0.35	mg/Kg	0.35	U
SSR-ST-B04-211221-D	8082A	PCB-1221	0.14	U	0.14	0.35	mg/Kg	0.35	U
SSR-ST-B04-211221-D	8082A	PCB-1232	0.094	U	0.094	0.35	mg/Kg	0.35	U
SSR-ST-B04-211221-D	8082A	PCB-1242	0.14	U	0.14	0.35	mg/Kg	0.35	U
SSR-ST-B04-211221-D	8082A	PCB-1248	1.6		0.17	0.35	mg/Kg	1.6	J+
SSR-ST-B04-211221-D	8082A	PCB-1254	0.12	U	0.12	0.35	mg/Kg	0.35	U
SSR-ST-B04-211221-D	8082A	PCB-1260	0.13	U	0.13	0.35	mg/Kg	0.35	U
SSR-ST-B04-211221-D	8082A	Polychlorinated biphenyls, Total	1.6		0.094	0.35	mg/Kg	1.6	J
SSR-ST-B04-211221-D	9045D	pH	7.9		0.2	0.2	SU	7.9	J
SSR-ST-B04-211221-D	9045D	Temperature	20.3		2	2	°C	20.3	
SSR-ST-C02-211221	6010B	Arsenic	24		3.3	9.8	mg/Kg	24	
SSR-ST-C02-211221	6010B	Cadmium	1	B	0.035	0.2	mg/Kg	1.0	J+
SSR-ST-C02-211221	6010B	Chromium	1300		4.8	9.8	mg/Kg	1300	
SSR-ST-C02-211221	6010B	Cobalt	6.4	U	6.4	24	mg/Kg	24	U
SSR-ST-C02-211221	6010B	Iron	390000		100	200	mg/Kg	390000	
SSR-ST-C02-211221	6010B	Lead	58		2.3	4.9	mg/Kg	58	J+
SSR-ST-C02-211221	6010B	Manganese	24000		7.1	49	mg/Kg	24000	
SSR-ST-C02-211221	6010B	Nickel	28		2.8	9.8	mg/Kg	28	J+
SSR-ST-C02-211221	7471B	Mercury	0.028		0.0058	0.017	mg/Kg	0.028	
SSR-ST-C02-211221	8082A	PCB-1016	0.007	U	0.007	0.018	mg/Kg	0.018	U
SSR-ST-C02-211221	8082A	PCB-1221	0.007	U	0.007	0.018	mg/Kg	0.018	U
SSR-ST-C02-211221	8082A	PCB-1232	0.0048	U	0.0048	0.018	mg/Kg	0.018	U
SSR-ST-C02-211221	8082A	PCB-1242	0.0069	U	0.0069	0.018	mg/Kg	0.018	U
SSR-ST-C02-211221	8082A	PCB-1248	0.046		0.0085	0.018	mg/Kg	0.046	J+
SSR-ST-C02-211221	8082A	PCB-1254	0.006	U	0.006	0.018	mg/Kg	0.018	U
SSR-ST-C02-211221	8082A	PCB-1260	0.0067	U	0.0067	0.018	mg/Kg	0.018	U
SSR-ST-C02-211221	8082A	Polychlorinated biphenyls, Total	0.046		0.0048	0.018	mg/Kg	0.046	J
SSR-ST-C02-211221	9045D	pH	11		0.2	0.2	SU	11	J
SSR-ST-C02-211221	9045D	Temperature	21.4		2	2	°C	21.4	
SSR-ST-C03-211221	6010B	Arsenic	15		1.8	5.2	mg/Kg	15	
SSR-ST-C03-211221	6010B	Cadmium	2	B	0.038	0.21	mg/Kg	2.0	
SSR-ST-C03-211221	6010B	Chromium	390		2.6	5.2	mg/Kg	390	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-C03-211221	6010B	Cobalt	3.4		0.68	2.6	mg/Kg	3.4	
SSR-ST-C03-211221	6010B	Iron	210000		54	100	mg/Kg	210000	
SSR-ST-C03-211221	6010B	Lead	130		1.2	2.6	mg/Kg	130	J
SSR-ST-C03-211221	6010B	Manganese	8100		0.76	5.2	mg/Kg	8100	J
SSR-ST-C03-211221	6010B	Nickel	18		1.5	5.2	mg/Kg	18	
SSR-ST-C03-211221	7471B	Mercury	0.091		0.0057	0.017	mg/Kg	0.091	
SSR-ST-C03-211221	8082A	PCB-1016	0.0072	U	0.0072	0.018	mg/Kg	0.018	U
SSR-ST-C03-211221	8082A	PCB-1221	0.0072	U	0.0072	0.018	mg/Kg	0.018	U
SSR-ST-C03-211221	8082A	PCB-1232	0.005	U	0.005	0.018	mg/Kg	0.018	U
SSR-ST-C03-211221	8082A	PCB-1242	0.0072	U	0.0072	0.018	mg/Kg	0.018	U
SSR-ST-C03-211221	8082A	PCB-1248	0.076		0.0087	0.018	mg/Kg	0.076	J+
SSR-ST-C03-211221	8082A	PCB-1254	0.0062	U	0.0062	0.018	mg/Kg	0.018	U
SSR-ST-C03-211221	8082A	PCB-1260	0.0069	U	0.0069	0.018	mg/Kg	0.018	U
SSR-ST-C03-211221	8082A	Polychlorinated biphenyls, Total	0.076		0.005	0.018	mg/Kg	0.076	J
SSR-ST-C03-211221	9045D	pH	8.3		0.2	0.2	SU	8.3	J
SSR-ST-C03-211221	9045D	Temperature	20.4		2	2	°C	20.4	
SSR-ST-C03-211221-D	6010B	Arsenic	16		1.8	5.4	mg/Kg	16	
SSR-ST-C03-211221-D	6010B	Cadmium	2.3	B	0.039	0.21	mg/Kg	2.3	
SSR-ST-C03-211221-D	6010B	Chromium	120		0.53	1.1	mg/Kg	120	J
SSR-ST-C03-211221-D	6010B	Cobalt	4.6		0.7	2.7	mg/Kg	4.6	
SSR-ST-C03-211221-D	6010B	Iron	220000		56	110	mg/Kg	220000	
SSR-ST-C03-211221-D	6010B	Lead	1100		1.2	2.7	mg/Kg	1100	J
SSR-ST-C03-211221-D	6010B	Manganese	3200		0.78	5.4	mg/Kg	3200	J
SSR-ST-C03-211221-D	6010B	Nickel	27		1.6	5.4	mg/Kg	27	
SSR-ST-C03-211221-D	7471B	Mercury	0.083		0.0057	0.017	mg/Kg	0.083	
SSR-ST-C03-211221-D	8082A	PCB-1016	0.0069	U	0.0069	0.018	mg/Kg	0.018	U
SSR-ST-C03-211221-D	8082A	PCB-1221	0.0069	U	0.0069	0.018	mg/Kg	0.018	U
SSR-ST-C03-211221-D	8082A	PCB-1232	0.0048	U	0.0048	0.018	mg/Kg	0.018	U
SSR-ST-C03-211221-D	8082A	PCB-1242	0.0069	U	0.0069	0.018	mg/Kg	0.018	U
SSR-ST-C03-211221-D	8082A	PCB-1248	0.076		0.0084	0.018	mg/Kg	0.076	J+
SSR-ST-C03-211221-D	8082A	PCB-1254	0.006	U	0.006	0.018	mg/Kg	0.018	U
SSR-ST-C03-211221-D	8082A	PCB-1260	0.0066	U	0.0066	0.018	mg/Kg	0.018	U
SSR-ST-C03-211221-D	8082A	Polychlorinated biphenyls, Total	0.076		0.0048	0.018	mg/Kg	0.076	J

RMG SITE SOIL ANALYTICAL RESULTS SUMMARY
EUROFINS TESTAMERICA REPORT NO. 500-210257-1

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-C03-211221-D	9045D	pH	8.2		0.2	0.2	SU	8.2	J
SSR-ST-C03-211221-D	9045D	Temperature	20.5		2	2	°C	20.5	

DATA VALIDATION CHECKLIST – STAGE 3

Site Name	RMG SITE	**Project No.**	103Z328406002
Data Reviewer (signature and date)	Bruce Welch January 24, 2022	**Technical Reviewer (signature and date)**	Harry N. Ellis III January 26, 2022
Laboratory Report No.	500-210257-2	**Laboratory**	Eurofins TestAmerica – Sacramento, CA
Analyses	Dioxins and furans by EPA SW-846 Method 8290A		
Samples and Matrix	Fourteen solid samples including two field duplicate solid samples		
Collection Date(s)	December 21, 2021		
Field Duplicate Pairs	SSR-ST-B04-211221 / SSR-ST-B04-211221-D and SSR-ST-C03-211221 / SSR-ST- C03-211221-D		
Field QC Blanks	None		

INTRODUCTION

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *National Functional Guidelines (NFG) for High-Resolution Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection of the data was required for this data package. The results may be used as qualified based on the findings of this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

Instrument Performance Checks:

Within Criteria	Exceedance/Notes
Y	

Initial Calibration:

Within Criteria	Exceedance/Notes
Y	

Continuing Calibration:

Within Criteria	Exceedance/Notes
N	The continuing calibration verification (CCV) solution 320-557913/2 that was analyzed on January 12, 2022, at 17:12 had a -21.0% difference (%D) for 2,3,7,8-TCDD, and the bracketing CCV solution 320-557913/12 that was analyzed on January 13, 2022, at 17:36 had a -21.1 %D for 2,3,7,8-TCDD exceed the laboratory 20 %D acceptance limit; however, no qualifications were applied because the 2,3,7,8-TCDD %D values met the NFG 35 %D acceptance limit.

Calibration Verification:

Within Criteria	Exceedance/Notes
Y	

Method blanks:

Within Criteria	Exceedance/Notes
N	The method blank 320-554875/1-A contained 0.0715 picograms per gram (pg/g) of 2,3,7,8-TCDF and total TCDF, 0.235 pg/g of 1,2,3,4,7,8-HxCDD and total HxCDD, 0.100 pg/g of 1,2,3,7,8,9-HxCDF and 0.155 pg/g of total HxCDF, 0.271 pg/g of 1,2,3,4,6,7,8-HpCDD and 0.612 pg/g of total HpCDD, 0.216 pg/g of 1,2,3,4,6,7,8-HpCDF, 0.150 pg/g of 1,2,3,4,7,8,9-HpCDF, 0.365 pg/g of total HpCDF, 0.574 pg/g of OCDD, 0.112 pg/g of OCDF, and the concentrations of these analytes were all less than half of the reporting limit values. The concentration of 1,2,3,4,7,8-HxCDD in all samples was less than the reporting limit; therefore, the 1,2,3,4,7,8-HxCDD result for all samples was reported at the reporting limit and qualified nondetect (flagged U). The concentration of 2,3,7,8-TCDF, 1,2,3,4,6,7,8-HpCDF, and OCDF in samples SSR-ST-B00-211221 and SSR-ST-C02-211221 were less than the reporting limit; therefore, the 2,3,7,8-TCDF, 1,2,3,4,6,7,8-HpCDF, and OCDF results for these samples were reported at the reporting limit and qualified nondetect (flagged U). The concentration of total TCDF, 1,2,3,4,6,7,8-HpCDD, total HpCDF, and total HxCDD for sample SSR-ST-B00-211221 was less than the reporting limit; therefore, the total TCDF, 1,2,3,4,6,7,8-HpCDD, total HpCDF, and total HxCDD results for SSR-ST-B00-211221 were reported at the reporting limit and qualified nondetect (flagged U). The concentration of 1,2,3,7,8,9-HxCDF, total HxCDF, and total HxCDF in sample SSR-ST-C02-211221 was less than the reporting limit; therefore, the 1,2,3,7,8,9-HxCDF, total HxCDF, and HxCDF results for SSR-ST-C02-211221 were reported at the reporting limit and qualified nondetect (flagged U). The concentration of 1,2,3,4,7,8,9-HpCDF in samples SSR-RD-A04-211221, SSR-SS-B01-211221, SSR-ST-C03-211221, and SSR-ST-C03-211221-D were less than the reporting limit; therefore, the 1,2,3,4,7,8,9-HpCDF results for these samples were reported at the reporting limit and qualified nondetect (flagged U). No qualifications were applied to the 2,3,7,8-TCDF, total TCDF, total HxCDD, total HxCDF, 1,2,3,4,6,7,8-HpCDD, total HpCDD, 1,2,3,4,7,8,9-HpCDF, total HpCDF, OCDD, and OCDF results that exceeded the reporting limit and were greater than 10x the concentration of the analyte in the method blank or nondetect.

Field blanks:

Within Criteria	Exceedance/Notes
NA	

Interference Check Samples (ICS) (ICP metals only):

Within Criteria	Exceedance/Notes
NA	

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
N	The recovery for the labeled standard 13C-1,2,3,4,7,8-HxCDF for samples SSR-SS-B02-211221, SSR-ST-B04-211221, and SSR-SS-C01-211221 exceed the laboratory 135% acceptance limit; therefore, the 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 2,3,4,6,7,8-HxCDF, and total HxCDF result for these samples was qualified as estimated, possibly biased high (flagged J+), and no qualifications were applied to the 1,2,3,7,8,9-HxCDF nondetect results for these samples. The 38% recovery for the labeled standard 13C-1,2,3,4,6,7,8-HpCDD for sample SSR-SS-A02-211221 was less than the laboratory 40% acceptance limit, but the HpCDD signal-to-noise ratio was greater than 10; therefore, the 1,2,3,4,6,7,8-HpCDD and total HpCDD results were qualified as estimated, possibly biased low (flagged J-). The recovery for the labeled standard 13C-OCDD for samples SSR-SS-A02-211221, SSR-ST-A03-211221, SSR-RD-A04-211221, SSR-SS-B01-211221, SSR-SS-B02-211221, SSR-ST-B03-211221, SSR-ST-B04-211221-D, and SSR-SS-C01-211221 was less than the laboratory 40% acceptance limit, but the 13C-OCDD recovery for each sample was greater than the NFG 10% limit and the OCDD signal-to-noise ratio was greater than 10; therefore, OCDD results were qualified as estimated, possibly biased low (flagged J-).

MS/MSD:

Within Criteria	Exceedance/Notes
NA	

Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	

Serial dilutions:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
N	**SSR-ST-C03-211221 / SSR-ST-C03-211221-D**: The RPD was 117.5% for 1,2,3,4,6,7,8-HpCDD, 77.8% for 1,2,3,4,6,7,8-HpCDF, 120.9% for OCDD, 116.4% for OCDF, 126.9% for total HpCDD, 103.4% for total HpCDF, 111.9% for total HxCDD, and 79.7% for total dioxin/furan TEQ which all exceeded the 70% acceptance limit; therefore, the parent sample and field duplicate positive results for these analytes were qualified as estimated (flagged J).

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
NA	All samples were analyzed undiluted.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
Y	

Second column confirmation (GC and HPLC analyses only):

Within Criteria	Exceedance/Notes
Y	

Internal Standards:

Within Criteria	Exceedance/Notes
Y	

Target analyte identification:

Within Criteria	Exceedance/Notes
N	All target analyte identification criteria were met except for ion abundance ratios. A review of the raw instrument data for the samples listed below showed the ion abundance ratios for the listed analyte was outside of the laboratory specified control limits; therefore, the results for analytes listed below were reported at the estimated maximum possible concentration (EMPC) values by the laboratory and qualified as estimated (flagged J). Note the sample results that were raised to the reporting limit and qualified as nondetect due to method blank contamination were not further qualified. **SSR-SS-A01-211221**: The results for 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, 1,2,3,4,7,8-HxCDD, 1,2,3,7,8-PeCDD, 2,3,7,8-TCDD, total HpCDF, total HxCDD, total HxCDF, total PeCDD, total TCDD, and total TCDF were qualified as estimated (flagged J). **SSR-SS-A02-211221**: The results for 1,2,3,4,6,7,8-HpCDF, 1,2,3,6,7,8-HxCDD, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8-PeCDD, 2,3,7,8-TCDD, total HpCDF, total HxCDD, total HxCDF, total PeCDD, total PeCDF, and total TCDD were qualified as estimated (flagged J). **SSR-ST-A03-211221**: The results for total HxCDF, total PeCDD, total TCDD, and total TCDF were qualified as estimated (flagged J). **SSR-RD-A04-211221**: The results for 2,3,7,8-TCDD, total PeCDD, total PeCDF, and total TCDD were qualified as estimated (flagged J). **SSR-ST-B00-211221**: The result for total TCDD was qualified as estimated (flagged J). **SSR-SS-B01-211221**: The results for 1,2,3,4,6,7,8-HpCDF, 2,3,7,8-TCDD, total HpCDF, total PeCDD, and total TCDD were qualified as estimated (flagged J). **SSR-SS-B02-211221**: The results for 2,3,4,7,8-PeCDF, total HxCDD, total HxCDF, total PeCDD, total PeCDF, total TCDD, and total TCDF were qualified as estimated (flagged J). The data user should note the total HxCDF result was further qualified with high bias due to a labeled standard exceedance.

Target analyte identification (continued):

Within Criteria	Exceedance/Notes
N	**SSR-ST-B03-211221**: The results for 1,2,3,7,8-PeCDF, total HxCDD, total HxCDF, total PeCDD, total PeCDF, and total TCDD were qualified as estimated (flagged J). **SSR-ST-B04-211221**: The results for total HpCDF, total HxCDD, and total TCDD were qualified as estimated (flagged J). **SSR-ST-B04-211221-D**: The results for 1,2,3,4,6,7,8-HpCDF, total HpCDF, total HxCDD, total HxCDF, total PeCDD, total PeCDF, total TCDD were qualified as estimated (flagged J). **SSR-SS-C01-211221**: The results for 1,2,3,7,8-PeCDF, 2,3,7,8-TCDD, total HxCDD, total PeCDD, total PeCDF, and total TCDD were qualified as estimated (flagged J). **SSR-ST-C02-211221**: The results for 2,3,7,8-TCDD, total HpCDF, total HxCDD, total PeCDD, total PeCDF, total TCDD, and total TCDF were qualified as estimated (flagged J). **SSR-ST-C03-211221**: The results for 1,2,3,4,6,7,8-HpCDF, 2,3,7,8-TCDD, total HpCDF, total PeCDD, total PeCDF, total TCDD, and total TCDF were qualified as estimated (flagged J). **SSR-ST-C03-211221-D**: The results for 1,2,3,4,6,7,8-HpCDF, 1,2,3,7,8-PeCDD, 2,3,7,8-TCDD, total HpCDF, total HxCDF, total PeCDD, total TCDD, and total TCDF were qualified as estimated (flagged J).

Analyte quantitation and MDLs/RLs:

Within Criteria	Exceedance/Notes
N	The non-detect results were reported at the reporting limit (RL) values in the laboratory PDF report, but the non-detect results were reported at the estimated detection limit (EDL) values in electronic data deliverable. Sample results between the EDL and the RL were flagged “J” by the laboratory. The non-detect results are reported at the RL values in the attached qualified data table. The laboratory qualified the OCDD result for samples SSR-ST-B04-211221, SSR-ST-B04-211221-D, and SSR-ST-C03-211221 as estimated because the OCDD result exceeded the calibration linear range; therefore, the OCDD results for these samples were qualified as estimated (flagged J). The data user should note that due to a labeled standard exceedance, the OCDD result for sample SSR-ST-B04-211221-D was qualified with low bias. The 2,3,7,8-TCDF reporting limit was raised to the EDL for samples SSR-SS-A01-211221, SSR-SS-A02-211221, SSR-SS-B02-211221, SSR-ST-A03-211221, SSR-ST-B03-211221, SSR-ST-B04-211221, and SSR-ST-B04-211221-D because of elevated noise or sample matrix interferences; therefore, the 2,3,7,8-TCDF results for these samples were qualified as estimated (flagged J).

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [none]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

500-210257-2 Dioxins/Furans

ICV: 320-530930/9 10/4/2021 17:07
2,3,7,8-TCDF = 7.9% pg: 1534, 1535

$$RRF = \frac{67246415 \times 100\ pg\cdot\mu L^{-1}}{15608588 4 \times 40\ pg\cdot\mu g^{-1}} = 1.077$$ ✓

$$\%D = \left[\frac{1.077 - 0.998}{0.998}\right] \times 100 = 7.9\%$$ ✓

Opening CCV: 320-554463/12 1/11/2022 20:59
1,2,3,7,8-PeCDF = -2.5% pg: 1567, 1604

$$RRF = \frac{45434472 \times 100\ pg\cdot\mu L^{-1}}{90409008 \times 50\ pg\cdot\mu L^{-1}} = 1.005$$ ✓

$$\%D = \left[\frac{1.005 - 1.031}{1.031}\right] \times 100 = -2.5\%$$ ✓

Closing CCV: 320-557463/25 1/12/2022 07:14
OCDD = -5.3% pg: 1631, 1633

$$RRF = \frac{21350582 \times 200\ pg\cdot\mu L^{-1}}{41984823 \times 100\ pg\cdot\mu L^{-1}} = 1.017$$ ✓

$$\%D = \left[\frac{1.017 - 1.073}{1.073}\right] \times 100 = -5.2\%$$ ✓

500-210257-2 Dioxins/Furans

Labeled Standard (isotope dilution)

SSR-SSA01-211221 1/12/2022 01:04

TCDD = 60% pg: 219, 1303, 37

$$C_x = \frac{10244945 \times 100\,pg \cdot \mu L^{-1}}{21285910 \times 0.8011} = 60.1\,pg \cdot \mu L^{-1}$$ ✓

$$\%R = \left(\frac{60.1\,pg \cdot \mu L^{-1}}{100\,pg \cdot \mu L^{-1}}\right) \times 100 = 60\%$$ ✓

Ion Abundance Ratio: 320-557463/25 1/12/2022 07:14

2,3,4,7,8-PeCDF = 1.61 pg: 1635

$$\frac{23264867}{14486518} = 1.61$$ ✓

MB: 320-554875/1-A 1/11/2022 22:49

1,2,3,4,7,8-HxCDD = 0.235 $pg \cdot g^{-1}$ pg: 39, 1874, 1303

$$C_x = \frac{39002 \times 100\,pg \cdot \mu L^{-1}}{35249459 \times 0.9430} = 0.1173\,pg \cdot \mu L^{-1}$$ ✓

$$C_x = \frac{0.1173\,pg \cdot \mu L^{-1} \times 20\,\mu L}{10.0\,g} = 0.235\,pg \cdot g^{-1}$$ ✓

500-210257-2 Dioxins/Furans

LCS: 320-554875/2-A   1/11/2022 23:34

2,3,4,6,7,8-HxCDF = 103%, 103 pg·g^{-1} pg: 40, 1916, 1303

$$C_x = \frac{34547043 \times 100\,pg \cdot \mu L^{-1}}{78913523 \times 0.8537} = 51.3\,pg \cdot \mu L^{-1}$$

$$C_x = \frac{51.3\,pg \cdot \mu L^{-1} \times 20\,\mu L}{10.0\,g} = 102.6\,pg \cdot g^{-1}$$

$$\%R = \left(\frac{103\,pg \cdot g^{-1}}{100\,pg \cdot g^{-1}}\right) \times 100 = 103\%$$ ✓

LCSD: 320-554875/2-A   1/11/2022 00:19

2,3,4,6,7,8-HxCDF = 104%, 104 pg·g^{-1} pg: 40, 1947, 1303
1982

$$C_x = \frac{35239167 \times 100\,pg \cdot \mu L^{-1}}{79057598 \times 0.8537} = 52.2\,pg \cdot g^{-1}$$ ✓

$$C_x = \frac{52.2\,pg \cdot g^{-1} \times 20\,\mu L}{10.0\,g} = 104.4\,pg \cdot g^{-1}$$ ✓

$$\%R = \left(\frac{104.4\,pg \cdot g^{-1}}{100\,pg \cdot g^{-1}}\right) \times 100 = 104\%$$ ✓

$$RPD = \left[\frac{104.4 - 102.6}{\left(\frac{104.4 + 102.6}{2}\right)}\right] \times 100 = 1.7\%$$ ✓

3

500-210257-2 Dioxins/Furans

Sample : SSR-SS-A01-211221 1/12/22 01:04

OCDD = 2400 $pg \cdot g^{-1}$ pg: 14, 220, 1303, 1982

$$C_x = \frac{44328248 \times 200\ pg \cdot \mu L^{-1}}{7770708 \times 1.0985} = 1062.8\ pg \cdot \mu L^{-1}$$

$$C_x = \frac{1062.8\ pg \cdot \mu L^{-1} \times 20\ \mu L}{10.28\ g \times 0.873} = 2368.5\ pg \cdot g^{-1}$$

$\approx 2400\ pg \cdot g^{-1}$

Adjusted RL : SSR-SS-B02-211221 1/12/22 05:34

2,3,7,8-TCDD RL = 1.2 $pg \cdot g^{-1}$, pg: 20, 39, 1928

Unadjusted 2,3,7,8-TCDD RL = 1.0 $pg \cdot g^{-1}$

Adjusted 2,3,7,8-TCDD RL:

$$\frac{1.0\ pg \cdot g^{-1} \times 20\ \mu L \times 10\ g \times DF1}{20\ \mu L \times 10.21\ g \times 0.811} = 1.2\ pg \cdot g^{-1}$$

500 - 210257-2 Dioxins / Furans

TEQ : SSR-ST-B04-211221 pg: 32

1,2,3,7,8-PeCDF = 0.22 $pg \cdot g^{-1}$ TEQ

$7.2\ pg \cdot g^{-1} \times 0.03\ TEF = 0.22\ pg \cdot g^{-1}$ TEQ

TEQ Total:

$$\left(\begin{array}{l} 1.5 + 4.0 + 0.22 + 3.3 + 0.49 + 1.7 + 1.5 + 0.79 \\ + 0.26 + 0.56 + 4.4 + 0.91 + 0.076 \\ + 1.3 + 0.042 + 0.97 \end{array}\right) = 26.018\ pg \cdot g^{-1}$$

500-210257-2

HRGC-HRMS Instrument:10D5

2,3,7,8-TCDD **Page: 1304-1426**

Level	**1**	**2**	**3**	**4**	**5**
2,3,7,8-TCDD Concentration (pg/µL)	0.50	2.0	10.0	40.0	200.0
2,3,7,8-TCDD Response	563478	2511034	11000155	56711230	284269461
13C-2,3,7,8-TCDD Concentration (pg/µL)	100.0	100.0	100.0	100.0	100.0
13C-2,3,7,8-TCDD Response	99880569	103853064	101212646	111558271	113954157
Relative Response Factor (RRF)	1.1283	1.2089	1.0868	1.2709	1.2473

Std Dev:	0.0785	
Mean RRF:	1.1885	✓
%RSD:	6.60%	✓

Ion Abundance Ratio **Page: 222**

			Ions
2,3,7,8-TCDD	Ratio =	0.51	319.8965/321.8936
13C-2,3,7,8-TCDD	Ratio =	0.76	331.9368/333.9339

2,3,7,8-TCDD	Ions	Response			
	320	22736	=	0.51	✓
	322	44984			

13C-2,3,7,8-TCDD	Ions	Response			
	332	4422153	=	0.76	✓
	334	5822792			

Signal/Noise **Page: 222**

2,3,7,8-TCDF

Height	1747782	=	435	✓
Average Noise	4021			

EDL **Page: 14, 1303, 222, 1982**

2,3,7,8-TCDD = 0.28 pg/g

$$\frac{(2.5) \times (2000\text{pg}) \times (618 + 653) \times \text{DF1}}{(10.28\text{ g}) \times (930336 + 1199885) \times 1.1885 \times 0.873} = 0.28\text{ pg/g}$$ ✓

EMPC **Page: 219, 1982**

2,3,7,8-TCDD = 0.96 pg/g

$$\frac{0.4292\text{ pg/uL} \times 20\text{ uL}}{10.28\text{ g} \times 0.873} = 0.96\text{ pg/g}$$ ✓

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-RD-A04-211221	8290A	1,2,3,4,6,7,8-HpCDD	190	B	0.67	5.4	pg/g	190	
SSR-RD-A04-211221	8290A	1,2,3,4,6,7,8-HpCDF	30	B	1	5.4	pg/g	30	
SSR-RD-A04-211221	8290A	1,2,3,4,7,8,9-HpCDF	3.7	J B	1.3	5.4	pg/g	5.4	U
SSR-RD-A04-211221	8290A	1,2,3,4,7,8-HxCDD	1.8	J B	0.27	5.4	pg/g	5.4	U
SSR-RD-A04-211221	8290A	1,2,3,4,7,8-HxCDF	7.5		0.36	5.4	pg/g	7.5	
SSR-RD-A04-211221	8290A	1,2,3,6,7,8-HxCDD	9.3		0.26	5.4	pg/g	9.3	
SSR-RD-A04-211221	8290A	1,2,3,6,7,8-HxCDF	3.5	J	0.35	5.4	pg/g	3.5	J
SSR-RD-A04-211221	8290A	1,2,3,7,8,9-HxCDD	4.1	J	0.23	5.4	pg/g	4.1	J
SSR-RD-A04-211221	8290A	1,2,3,7,8,9-HxCDF	0.37	U	0.37	5.4	pg/g	5.4	U
SSR-RD-A04-211221	8290A	1,2,3,7,8-PeCDD	1	J	0.41	5.4	pg/g	1.0	J
SSR-RD-A04-211221	8290A	1,2,3,7,8-PeCDF	3	J	0.23	5.4	pg/g	3.0	J
SSR-RD-A04-211221	8290A	2,3,4,6,7,8-HxCDF	2.5	J	0.35	5.4	pg/g	2.5	J
SSR-RD-A04-211221	8290A	2,3,4,7,8-PeCDF	4.2	J	0.23	5.4	pg/g	4.2	J
SSR-RD-A04-211221	8290A	2,3,7,8-TCDD	0.39	J q	0.09	1.1	pg/g	0.39	J
SSR-RD-A04-211221	8290A	2,3,7,8-TCDF	4.6	B	1.1	1.1	pg/g	4.6	
SSR-RD-A04-211221	8290A	OCDD	1300	B	1.5	11	pg/g	1300	J-
SSR-RD-A04-211221	8290A	OCDF	71	B	0.53	11	pg/g	71	
SSR-RD-A04-211221	8290A	Total HpCDD	430	B	0.67	5.4	pg/g	430	
SSR-RD-A04-211221	8290A	Total HpCDF	80	B	1.1	5.4	pg/g	80	
SSR-RD-A04-211221	8290A	Total HxCDD	110	B	0.25	5.4	pg/g	110	
SSR-RD-A04-211221	8290A	Total HxCDF	53	B	0.36	5.4	pg/g	53	
SSR-RD-A04-211221	8290A	Total PeCDD	7.6	q	0.41	5.4	pg/g	7.6	J
SSR-RD-A04-211221	8290A	Total PeCDF	36	q	0.23	5.4	pg/g	36	J
SSR-RD-A04-211221	8290A	Total TCDD	7.2	q	0.09	1.1	pg/g	7.2	J
SSR-RD-A04-211221	8290A	Total TCDF	41	B	0.19	1.1	pg/g	41	
SSR-RD-A04-211221	TEQ	Total Dioxin/Furan TEQ	9				pg/g	9.0	
SSR-SS-A01-211221	8290A	1,2,3,4,6,7,8-HpCDD	330	B	3.1	5.6	pg/g	330	
SSR-SS-A01-211221	8290A	1,2,3,4,6,7,8-HpCDF	84	B q	3.1	5.6	pg/g	84	J
SSR-SS-A01-211221	8290A	1,2,3,4,7,8,9-HpCDF	8.2	B q	3.9	5.6	pg/g	8.2	J
SSR-SS-A01-211221	8290A	1,2,3,4,7,8-HxCDD	2.8	J B q	0.48	5.6	pg/g	5.6	J
SSR-SS-A01-211221	8290A	1,2,3,4,7,8-HxCDF	16		0.78	5.6	pg/g	16	
SSR-SS-A01-211221	8290A	1,2,3,6,7,8-HxCDD	17		0.46	5.6	pg/g	17	
SSR-SS-A01-211221	8290A	1,2,3,6,7,8-HxCDF	10		0.75	5.6	pg/g	10	
SSR-SS-A01-211221	8290A	1,2,3,7,8,9-HxCDD	8.9		0.41	5.6	pg/g	8.9	

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-SS-A01-211221	8290A	1,2,3,7,8,9-HxCDF	0.8	U	0.8	5.6	pg/g	5.6	U
SSR-SS-A01-211221	8290A	1,2,3,7,8-PeCDD	2.8	J q	0.59	5.6	pg/g	2.8	J
SSR-SS-A01-211221	8290A	1,2,3,7,8-PeCDF	7.9		0.54	5.6	pg/g	7.9	
SSR-SS-A01-211221	8290A	2,3,4,6,7,8-HxCDF	8.2		0.76	5.6	pg/g	8.2	
SSR-SS-A01-211221	8290A	2,3,4,7,8-PeCDF	12		0.55	5.6	pg/g	12	
SSR-SS-A01-211221	8290A	2,3,7,8-TCDD	0.96	J q	0.28	1.1	pg/g	0.96	J
SSR-SS-A01-211221	8290A	2,3,7,8-TCDF	9.3	G B	1.3	1.3	pg/g	9.3	J
SSR-SS-A01-211221	8290A	OCDD	2400	B	1.6	11	pg/g	2400	
SSR-SS-A01-211221	8290A	OCDF	130	B	0.47	11	pg/g	130	
SSR-SS-A01-211221	8290A	Total HpCDD	750	B	3.1	5.6	pg/g	750	
SSR-SS-A01-211221	8290A	Total HpCDF	190	B q	3.5	5.6	pg/g	190	J
SSR-SS-A01-211221	8290A	Total HxCDD	150	B q	0.45	5.6	pg/g	150	J
SSR-SS-A01-211221	8290A	Total HxCDF	120	B q	0.77	5.6	pg/g	120	J
SSR-SS-A01-211221	8290A	Total PeCDD	33	q	0.59	5.6	pg/g	33	J
SSR-SS-A01-211221	8290A	Total PeCDF	100		0.54	5.6	pg/g	100	
SSR-SS-A01-211221	8290A	Total TCDD	19	q	0.28	1.1	pg/g	19	J
SSR-SS-A01-211221	8290A	Total TCDF	110	B q	0.53	1.1	pg/g	110	J
SSR-SS-A01-211221	TEQ	Total Dioxin/Furan TEQ	20				pg/g	20	
SSR-SS-A02-211221	8290A	1,2,3,4,6,7,8-HpCDD	120	B	0.96	5.9	pg/g	120	J-
SSR-SS-A02-211221	8290A	1,2,3,4,6,7,8-HpCDF	18	q B	1.3	5.9	pg/g	18	J
SSR-SS-A02-211221	8290A	1,2,3,4,7,8,9-HpCDF	1.6	U	1.6	5.9	pg/g	5.9	U
SSR-SS-A02-211221	8290A	1,2,3,4,7,8-HxCDD	1.3	J q B	0.36	5.9	pg/g	5.9	U
SSR-SS-A02-211221	8290A	1,2,3,4,7,8-HxCDF	4.6	J	0.49	5.9	pg/g	4.6	J
SSR-SS-A02-211221	8290A	1,2,3,6,7,8-HxCDD	6	q	0.35	5.9	pg/g	6.0	J
SSR-SS-A02-211221	8290A	1,2,3,6,7,8-HxCDF	2.6	J q	0.47	5.9	pg/g	2.6	J
SSR-SS-A02-211221	8290A	1,2,3,7,8,9-HxCDD	4.4	J	0.31	5.9	pg/g	4.4	J
SSR-SS-A02-211221	8290A	1,2,3,7,8,9-HxCDF	0.5	U	0.5	5.9	pg/g	5.9	U
SSR-SS-A02-211221	8290A	1,2,3,7,8-PeCDD	0.78	J q	0.48	5.9	pg/g	0.78	J
SSR-SS-A02-211221	8290A	1,2,3,7,8-PeCDF	2.2	J	0.25	5.9	pg/g	2.2	J
SSR-SS-A02-211221	8290A	2,3,4,6,7,8-HxCDF	1.5	J	0.48	5.9	pg/g	1.5	J
SSR-SS-A02-211221	8290A	2,3,4,7,8-PeCDF	3.1	J	0.26	5.9	pg/g	3.1	J
SSR-SS-A02-211221	8290A	2,3,7,8-TCDD	0.35	J q	0.13	1.2	pg/g	0.35	J
SSR-SS-A02-211221	8290A	2,3,7,8-TCDF	3.1	G B	1.4	1.4	pg/g	3.1	J
SSR-SS-A02-211221	8290A	OCDD	790	B	1.3	12	pg/g	790	J-

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-SS-A02-211221	8290A	OCDF	45	B	0.99	12	pg/g	45	
SSR-SS-A02-211221	8290A	Total HpCDD	260	B	0.96	5.9	pg/g	260	J-
SSR-SS-A02-211221	8290A	Total HpCDF	41	q B	1.4	5.9	pg/g	41	J
SSR-SS-A02-211221	8290A	Total HxCDD	71	q B	0.34	5.9	pg/g	71	J
SSR-SS-A02-211221	8290A	Total HxCDF	34	q B	0.48	5.9	pg/g	34	J
SSR-SS-A02-211221	8290A	Total PeCDD	6.3	q	0.48	5.9	pg/g	6.3	J
SSR-SS-A02-211221	8290A	Total PeCDF	23	q	0.25	5.9	pg/g	23	J
SSR-SS-A02-211221	8290A	Total TCDD	6.4	q	0.13	1.2	pg/g	6.4	J
SSR-SS-A02-211221	8290A	Total TCDF	35	B	0.17	1.2	pg/g	35	
SSR-SS-A02-211221	TEQ	Total Dioxin/Furan TEQ	6.4				pg/g	6.4	
SSR-SS-B01-211221	8290A	1,2,3,4,6,7,8-HpCDD	170	B	0.79	5.8	pg/g	170	
SSR-SS-B01-211221	8290A	1,2,3,4,6,7,8-HpCDF	31	q B	1.6	5.8	pg/g	31	J
SSR-SS-B01-211221	8290A	1,2,3,4,7,8,9-HpCDF	4.4	J B	2	5.8	pg/g	5.8	U
SSR-SS-B01-211221	8290A	1,2,3,4,7,8-HxCDD	2.3	J B	0.38	5.8	pg/g	5.8	U
SSR-SS-B01-211221	8290A	1,2,3,4,7,8-HxCDF	8.6		0.65	5.8	pg/g	8.6	
SSR-SS-B01-211221	8290A	1,2,3,6,7,8-HxCDD	9.5		0.37	5.8	pg/g	9.5	
SSR-SS-B01-211221	8290A	1,2,3,6,7,8-HxCDF	4.9	J	0.63	5.8	pg/g	4.9	J
SSR-SS-B01-211221	8290A	1,2,3,7,8,9-HxCDD	4.1	J	0.32	5.8	pg/g	4.1	J
SSR-SS-B01-211221	8290A	1,2,3,7,8,9-HxCDF	0.67	U	0.67	5.8	pg/g	5.8	U
SSR-SS-B01-211221	8290A	1,2,3,7,8-PeCDD	0.6	U	0.6	5.8	pg/g	5.8	U
SSR-SS-B01-211221	8290A	1,2,3,7,8-PeCDF	4.3	J	0.32	5.8	pg/g	4.3	J
SSR-SS-B01-211221	8290A	2,3,4,6,7,8-HxCDF	3.4	J	0.64	5.8	pg/g	3.4	J
SSR-SS-B01-211221	8290A	2,3,4,7,8-PeCDF	6.7		0.32	5.8	pg/g	6.7	
SSR-SS-B01-211221	8290A	2,3,7,8-TCDD	0.57	J q	0.083	1.2	pg/g	0.57	J
SSR-SS-B01-211221	8290A	2,3,7,8-TCDF	6.4	B	1.2	1.2	pg/g	6.4	
SSR-SS-B01-211221	8290A	OCDD	1600	B	1.2	12	pg/g	1600	J-
SSR-SS-B01-211221	8290A	OCDF	100	B	0.49	12	pg/g	100	
SSR-SS-B01-211221	8290A	Total HpCDD	400	B	0.79	5.8	pg/g	400	
SSR-SS-B01-211221	8290A	Total HpCDF	100	q B	1.8	5.8	pg/g	100	J
SSR-SS-B01-211221	8290A	Total HxCDD	100	B	0.36	5.8	pg/g	100	
SSR-SS-B01-211221	8290A	Total HxCDF	71	B	0.65	5.8	pg/g	71	
SSR-SS-B01-211221	8290A	Total PeCDD	9.7	q	0.6	5.8	pg/g	9.7	J
SSR-SS-B01-211221	8290A	Total PeCDF	61		0.32	5.8	pg/g	61	
SSR-SS-B01-211221	8290A	Total TCDD	11	q	0.083	1.2	pg/g	11	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-SS-B01-211221	8290A	Total TCDF	67	B	0.4	1.2	pg/g	67	
SSR-SS-B01-211221	TEQ	Total Dioxin/Furan TEQ	12				pg/g	12	
SSR-SS-B02-211221	8290A	1,2,3,4,6,7,8-HpCDD	230	B	2.5	6	pg/g	230	
SSR-SS-B02-211221	8290A	1,2,3,4,6,7,8-HpCDF	48	B	2.1	6	pg/g	48	
SSR-SS-B02-211221	8290A	1,2,3,4,7,8,9-HpCDF	2.7	U	2.7	6	pg/g	6.0	U
SSR-SS-B02-211221	8290A	1,2,3,4,7,8-HxCDD	2.4	J B q	0.82	6	pg/g	6.0	U
SSR-SS-B02-211221	8290A	1,2,3,4,7,8-HxCDF	9.1		1.1	6	pg/g	9.1	J+
SSR-SS-B02-211221	8290A	1,2,3,6,7,8-HxCDD	12		0.78	6	pg/g	12	
SSR-SS-B02-211221	8290A	1,2,3,6,7,8-HxCDF	4.5	J	1	6	pg/g	4.5	J+
SSR-SS-B02-211221	8290A	1,2,3,7,8,9-HxCDD	6.3		0.7	6	pg/g	6.3	
SSR-SS-B02-211221	8290A	1,2,3,7,8,9-HxCDF	1.1	U	1.1	6	pg/g	6.0	U
SSR-SS-B02-211221	8290A	1,2,3,7,8-PeCDD	1.8	U	1.8	6	pg/g	6.0	U
SSR-SS-B02-211221	8290A	1,2,3,7,8-PeCDF	4.8	J	1.4	6	pg/g	4.8	J
SSR-SS-B02-211221	8290A	2,3,4,6,7,8-HxCDF	2.7	J	1	6	pg/g	2.7	J+
SSR-SS-B02-211221	8290A	2,3,4,7,8-PeCDF	5	J q	1.4	6	pg/g	5.0	J
SSR-SS-B02-211221	8290A	2,3,7,8-TCDD	1.5		0.15	1.2	pg/g	1.5	
SSR-SS-B02-211221	8290A	2,3,7,8-TCDF	6.5	G B	2	2	pg/g	6.5	J
SSR-SS-B02-211221	8290A	OCDD	2300	B	1.9	12	pg/g	2300	J-
SSR-SS-B02-211221	8290A	OCDF	140	B	1.3	12	pg/g	140	
SSR-SS-B02-211221	8290A	Total HpCDD	530	B	2.5	6	pg/g	530	
SSR-SS-B02-211221	8290A	Total HpCDF	130	B	2.4	6	pg/g	130	
SSR-SS-B02-211221	8290A	Total HxCDD	130	B q	0.77	6	pg/g	130	J
SSR-SS-B02-211221	8290A	Total HxCDF	79	B q	1.1	6	pg/g	79	J+
SSR-SS-B02-211221	8290A	Total PeCDD	7.7	q	1.8	6	pg/g	7.7	J
SSR-SS-B02-211221	8290A	Total PeCDF	37	q	1.4	6	pg/g	37	J
SSR-SS-B02-211221	8290A	Total TCDD	15	q	0.15	1.2	pg/g	15	J
SSR-SS-B02-211221	8290A	Total TCDF	55	B q	0.29	1.2	pg/g	55	J
SSR-SS-B02-211221	TEQ	Total Dioxin/Furan TEQ	14				pg/g	14	
SSR-SS-C01-211221	8290A	1,2,3,4,6,7,8-HpCDD	99	B	0.57	6.2	pg/g	99	
SSR-SS-C01-211221	8290A	1,2,3,4,6,7,8-HpCDF	18	B	0.73	6.2	pg/g	18	
SSR-SS-C01-211221	8290A	1,2,3,4,7,8,9-HpCDF	0.92	U	0.92	6.2	pg/g	6.2	U
SSR-SS-C01-211221	8290A	1,2,3,4,7,8-HxCDD	1.1	J B q	0.28	6.2	pg/g	6.2	U
SSR-SS-C01-211221	8290A	1,2,3,4,7,8-HxCDF	4.7	J	0.62	6.2	pg/g	4.7	J+
SSR-SS-C01-211221	8290A	1,2,3,6,7,8-HxCDD	6.3		0.27	6.2	pg/g	6.3	

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-SS-C01-211221	8290A	1,2,3,6,7,8-HxCDF	2	J	0.59	6.2	pg/g	2.0	J+
SSR-SS-C01-211221	8290A	1,2,3,7,8,9-HxCDD	4.4	J	0.24	6.2	pg/g	4.4	J
SSR-SS-C01-211221	8290A	1,2,3,7,8,9-HxCDF	0.64	U	0.64	6.2	pg/g	6.2	U
SSR-SS-C01-211221	8290A	1,2,3,7,8-PeCDD	0.39	U	0.39	6.2	pg/g	6.2	U
SSR-SS-C01-211221	8290A	1,2,3,7,8-PeCDF	1.4	J q	0.36	6.2	pg/g	1.4	J
SSR-SS-C01-211221	8290A	2,3,4,6,7,8-HxCDF	1.4	J	0.61	6.2	pg/g	1.4	J+
SSR-SS-C01-211221	8290A	2,3,4,7,8-PeCDF	2.5	J	0.36	6.2	pg/g	2.5	J
SSR-SS-C01-211221	8290A	2,3,7,8-TCDD	0.39	J q	0.15	1.2	pg/g	0.39	J
SSR-SS-C01-211221	8290A	2,3,7,8-TCDF	3.1	B	0.75	1.2	pg/g	3.1	
SSR-SS-C01-211221	8290A	OCDD	970	B	1	12	pg/g	970	J-
SSR-SS-C01-211221	8290A	OCDF	34	B	0.78	12	pg/g	34	
SSR-SS-C01-211221	8290A	Total HpCDD	360	B	0.57	6.2	pg/g	360	
SSR-SS-C01-211221	8290A	Total HpCDF	40	B	0.82	6.2	pg/g	40	
SSR-SS-C01-211221	8290A	Total HxCDD	68	B q	0.26	6.2	pg/g	68	J
SSR-SS-C01-211221	8290A	Total HxCDF	29	B	0.61	6.2	pg/g	29	J+
SSR-SS-C01-211221	8290A	Total PeCDD	5	J q	0.39	6.2	pg/g	5.0	J
SSR-SS-C01-211221	8290A	Total PeCDF	20	q	0.36	6.2	pg/g	20	J
SSR-SS-C01-211221	8290A	Total TCDD	5.8	q	0.15	1.2	pg/g	5.8	J
SSR-SS-C01-211221	8290A	Total TCDF	29	B	0.19	1.2	pg/g	29	
SSR-SS-C01-211221	TEQ	Total Dioxin/Furan TEQ	8.4				pg/g	8.4	
SSR-ST-A03-211221	8290A	1,2,3,4,6,7,8-HpCDD	270	B	1.4	5.7	pg/g	270	
SSR-ST-A03-211221	8290A	1,2,3,4,6,7,8-HpCDF	100	B	1.7	5.7	pg/g	100	
SSR-ST-A03-211221	8290A	1,2,3,4,7,8,9-HpCDF	9.9	B	2.2	5.7	pg/g	9.9	
SSR-ST-A03-211221	8290A	1,2,3,4,7,8-HxCDD	5.1	J B	0.54	5.7	pg/g	5.7	U
SSR-ST-A03-211221	8290A	1,2,3,4,7,8-HxCDF	27		1.1	5.7	pg/g	27	
SSR-ST-A03-211221	8290A	1,2,3,6,7,8-HxCDD	14		0.52	5.7	pg/g	14	
SSR-ST-A03-211221	8290A	1,2,3,6,7,8-HxCDF	14		1.1	5.7	pg/g	14	
SSR-ST-A03-211221	8290A	1,2,3,7,8,9-HxCDD	8.2		0.46	5.7	pg/g	8.2	
SSR-ST-A03-211221	8290A	1,2,3,7,8,9-HxCDF	1.1	U	1.1	5.7	pg/g	5.7	U
SSR-ST-A03-211221	8290A	1,2,3,7,8-PeCDD	3.8	J	0.87	5.7	pg/g	3.8	J
SSR-ST-A03-211221	8290A	1,2,3,7,8-PeCDF	9.9		0.49	5.7	pg/g	9.9	
SSR-ST-A03-211221	8290A	2,3,4,6,7,8-HxCDF	9.9		1.1	5.7	pg/g	9.9	
SSR-ST-A03-211221	8290A	2,3,4,7,8-PeCDF	16		0.5	5.7	pg/g	16	
SSR-ST-A03-211221	8290A	2,3,7,8-TCDD	1.2		0.13	1.1	pg/g	1.2	

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-ST-A03-211221	8290A	2,3,7,8-TCDF	15	G B	1.6	1.6	pg/g	15	J
SSR-ST-A03-211221	8290A	OCDD	2400	B	2.2	11	pg/g	2400	J-
SSR-ST-A03-211221	8290A	OCDF	120	B	0.89	11	pg/g	120	
SSR-ST-A03-211221	8290A	Total HpCDD	570	B	1.4	5.7	pg/g	570	
SSR-ST-A03-211221	8290A	Total HpCDF	190	B	1.9	5.7	pg/g	190	
SSR-ST-A03-211221	8290A	Total HxCDD	170	B	0.51	5.7	pg/g	170	
SSR-ST-A03-211221	8290A	Total HxCDF	150	q B	1.1	5.7	pg/g	150	J
SSR-ST-A03-211221	8290A	Total PeCDD	32	q	0.87	5.7	pg/g	32	J
SSR-ST-A03-211221	8290A	Total PeCDF	120		0.49	5.7	pg/g	120	
SSR-ST-A03-211221	8290A	Total TCDD	24	q	0.13	1.1	pg/g	24	J
SSR-ST-A03-211221	8290A	Total TCDF	130	q B	0.51	1.1	pg/g	130	J
SSR-ST-A03-211221	TEQ	Total Dioxin/Furan TEQ	24				pg/g	24	
SSR-ST-B00-211221	8290A	1,2,3,4,6,7,8-HpCDD	2.2	J B	0.21	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	1,2,3,4,6,7,8-HpCDF	0.49	J B q	0.23	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	1,2,3,4,7,8,9-HpCDF	0.3	U	0.3	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	1,2,3,4,7,8-HxCDD	0.34	J B	0.19	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	1,2,3,4,7,8-HxCDF	0.17	U	0.17	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	1,2,3,6,7,8-HxCDD	0.24	J	0.18	5.2	pg/g	0.24	J
SSR-ST-B00-211221	8290A	1,2,3,6,7,8-HxCDF	0.16	U	0.16	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	1,2,3,7,8,9-HxCDD	0.44	J	0.16	5.2	pg/g	0.44	J
SSR-ST-B00-211221	8290A	1,2,3,7,8,9-HxCDF	0.17	U	0.17	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	1,2,3,7,8-PeCDD	0.24	U	0.24	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	1,2,3,7,8-PeCDF	0.13	U	0.13	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	2,3,4,6,7,8-HxCDF	0.17	U	0.17	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	2,3,4,7,8-PeCDF	0.13	U	0.13	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	2,3,7,8-TCDD	0.14	U	0.14	1	pg/g	1.0	U
SSR-ST-B00-211221	8290A	2,3,7,8-TCDF	0.37	J B	0.088	1	pg/g	1.0	U
SSR-ST-B00-211221	8290A	OCDD	32	B	0.56	10	pg/g	32	
SSR-ST-B00-211221	8290A	OCDF	1.5	J B	0.25	10	pg/g	10	U
SSR-ST-B00-211221	8290A	Total HpCDD	5.6	B	0.21	5.2	pg/g	5.6	
SSR-ST-B00-211221	8290A	Total HpCDF	1.1	J B q	0.27	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	Total HxCDD	2.2	J B q	0.18	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	Total HxCDF	0.17	U	0.17	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	Total PeCDD	0.24	U	0.24	5.2	pg/g	5.2	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-ST-B00-211221	8290A	Total PeCDF	0.14	U	0.14	5.2	pg/g	5.2	U
SSR-ST-B00-211221	8290A	Total TCDD	0.22	J q	0.14	1	pg/g	0.22	J
SSR-ST-B00-211221	8290A	Total TCDF	0.37	J B	0.088	1	pg/g	1.0	U
SSR-ST-B00-211221	TEQ	Total Dioxin/Furan TEQ	5.2				pg/g	5.2	
SSR-ST-B03-211221	8290A	1,2,3,4,6,7,8-HpCDD	190	B	1.1	5.4	pg/g	190	
SSR-ST-B03-211221	8290A	1,2,3,4,6,7,8-HpCDF	43	B	1.8	5.4	pg/g	43	
SSR-ST-B03-211221	8290A	1,2,3,4,7,8,9-HpCDF	2.2	U	2.2	5.4	pg/g	5.4	U
SSR-ST-B03-211221	8290A	1,2,3,4,7,8-HxCDD	1.2	J B	0.9	5.4	pg/g	5.4	U
SSR-ST-B03-211221	8290A	1,2,3,4,7,8-HxCDF	7.6		0.77	5.4	pg/g	7.6	
SSR-ST-B03-211221	8290A	1,2,3,6,7,8-HxCDD	12		0.87	5.4	pg/g	12	
SSR-ST-B03-211221	8290A	1,2,3,6,7,8-HxCDF	5.1	J	0.74	5.4	pg/g	5.1	J
SSR-ST-B03-211221	8290A	1,2,3,7,8,9-HxCDD	4.8	J	0.77	5.4	pg/g	4.8	J
SSR-ST-B03-211221	8290A	1,2,3,7,8,9-HxCDF	0.79	U	0.79	5.4	pg/g	5.4	U
SSR-ST-B03-211221	8290A	1,2,3,7,8-PeCDD	1.3	U	1.3	5.4	pg/g	5.4	U
SSR-ST-B03-211221	8290A	1,2,3,7,8-PeCDF	3	J q	1.1	5.4	pg/g	3.0	J
SSR-ST-B03-211221	8290A	2,3,4,6,7,8-HxCDF	4.6	J	0.75	5.4	pg/g	4.6	J
SSR-ST-B03-211221	8290A	2,3,4,7,8-PeCDF	5.8		1.2	5.4	pg/g	5.8	
SSR-ST-B03-211221	8290A	2,3,7,8-TCDD	0.88	J	0.43	1.1	pg/g	0.88	J
SSR-ST-B03-211221	8290A	2,3,7,8-TCDF	3.7	G B	1.6	1.6	pg/g	3.7	J
SSR-ST-B03-211221	8290A	OCDD	1600	B	2	11	pg/g	1600	J-
SSR-ST-B03-211221	8290A	OCDF	71	B	1.5	11	pg/g	71	
SSR-ST-B03-211221	8290A	Total HpCDD	400	B	1.1	5.4	pg/g	400	
SSR-ST-B03-211221	8290A	Total HpCDF	89	B	2	5.4	pg/g	89	
SSR-ST-B03-211221	8290A	Total HxCDD	110	B q	0.85	5.4	pg/g	110	J
SSR-ST-B03-211221	8290A	Total HxCDF	88	B q	0.76	5.4	pg/g	88	J
SSR-ST-B03-211221	8290A	Total PeCDD	4.2	J q	1.3	5.4	pg/g	4.2	J
SSR-ST-B03-211221	8290A	Total PeCDF	45	q	1.2	5.4	pg/g	45	J
SSR-ST-B03-211221	8290A	Total TCDD	13	q	0.43	1.1	pg/g	13	J
SSR-ST-B03-211221	8290A	Total TCDF	38	B	0.51	1.1	pg/g	38	
SSR-ST-B03-211221	TEQ	Total Dioxin/Furan TEQ	12				pg/g	12	
SSR-ST-B04-211221	8290A	1,2,3,4,6,7,8-HpCDD	440	B	2.6	5.2	pg/g	440	
SSR-ST-B04-211221	8290A	1,2,3,4,6,7,8-HpCDF	91	B	2.5	5.2	pg/g	91	
SSR-ST-B04-211221	8290A	1,2,3,4,7,8,9-HpCDF	7.6	B	3.1	5.2	pg/g	7.6	
SSR-ST-B04-211221	8290A	1,2,3,4,7,8-HxCDD	4.9	J B	2.4	5.2	pg/g	5.2	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-ST-B04-211221	8290A	1,2,3,4,7,8-HxCDF	15		0.81	5.2	pg/g	15	J+
SSR-ST-B04-211221	8290A	1,2,3,6,7,8-HxCDD	40		2.3	5.2	pg/g	40	
SSR-ST-B04-211221	8290A	1,2,3,6,7,8-HxCDF	7.9		0.78	5.2	pg/g	7.9	J+
SSR-ST-B04-211221	8290A	1,2,3,7,8,9-HxCDD	17		2.1	5.2	pg/g	17	
SSR-ST-B04-211221	8290A	1,2,3,7,8,9-HxCDF	0.84	U	0.84	5.2	pg/g	5.2	U
SSR-ST-B04-211221	8290A	1,2,3,7,8-PeCDD	4	J	1.4	5.2	pg/g	4.0	J
SSR-ST-B04-211221	8290A	1,2,3,7,8-PeCDF	7.2		0.93	5.2	pg/g	7.2	
SSR-ST-B04-211221	8290A	2,3,4,6,7,8-HxCDF	5.6		0.8	5.2	pg/g	5.6	J+
SSR-ST-B04-211221	8290A	2,3,4,7,8-PeCDF	11		0.94	5.2	pg/g	11	
SSR-ST-B04-211221	8290A	2,3,7,8-TCDD	1.5		0.15	1	pg/g	1.5	
SSR-ST-B04-211221	8290A	2,3,7,8-TCDF	9.7	G B	1.5	1.5	pg/g	9.7	J
SSR-ST-B04-211221	8290A	OCDD	4200	E B	1.5	10	pg/g	4200	J
SSR-ST-B04-211221	8290A	OCDF	140	B	0.7	10	pg/g	140	
SSR-ST-B04-211221	8290A	Total HpCDD	880	B	2.6	5.2	pg/g	880	
SSR-ST-B04-211221	8290A	Total HpCDF	220	q B	2.8	5.2	pg/g	220	J
SSR-ST-B04-211221	8290A	Total HxCDD	340	q B	2.3	5.2	pg/g	340	J
SSR-ST-B04-211221	8290A	Total HxCDF	160	B	0.81	5.2	pg/g	160	J+
SSR-ST-B04-211221	8290A	Total PeCDD	17		1.4	5.2	pg/g	17	
SSR-ST-B04-211221	8290A	Total PeCDF	120		0.94	5.2	pg/g	120	
SSR-ST-B04-211221	8290A	Total TCDD	19	q	0.15	1	pg/g	19	J
SSR-ST-B04-211221	8290A	Total TCDF	91	B	0.49	1	pg/g	91	
SSR-ST-B04-211221	TEQ	Total Dioxin/Furan TEQ	26				pg/g	26	
SSR-ST-B04-211221-D	8290A	1,2,3,4,6,7,8-HpCDD	660	B	2.2	5.3	pg/g	660	
SSR-ST-B04-211221-D	8290A	1,2,3,4,6,7,8-HpCDF	88	q B	2.8	5.3	pg/g	88	J
SSR-ST-B04-211221-D	8290A	1,2,3,4,7,8,9-HpCDF	3.6	U	3.6	5.3	pg/g	5.3	U
SSR-ST-B04-211221-D	8290A	1,2,3,4,7,8-HxCDD	3.7	J q B	1.6	5.3	pg/g	5.3	U
SSR-ST-B04-211221-D	8290A	1,2,3,4,7,8-HxCDF	18		1.3	5.3	pg/g	18	
SSR-ST-B04-211221-D	8290A	1,2,3,6,7,8-HxCDD	48		1.5	5.3	pg/g	48	
SSR-ST-B04-211221-D	8290A	1,2,3,6,7,8-HxCDF	12		1.2	5.3	pg/g	12	
SSR-ST-B04-211221-D	8290A	1,2,3,7,8,9-HxCDD	19		1.4	5.3	pg/g	19	
SSR-ST-B04-211221-D	8290A	1,2,3,7,8,9-HxCDF	1.3	U	1.3	5.3	pg/g	5.3	U
SSR-ST-B04-211221-D	8290A	1,2,3,7,8-PeCDD	1.8	U	1.8	5.3	pg/g	5.3	U
SSR-ST-B04-211221-D	8290A	1,2,3,7,8-PeCDF	9.7		1.1	5.3	pg/g	9.7	
SSR-ST-B04-211221-D	8290A	2,3,4,6,7,8-HxCDF	7.4		1.2	5.3	pg/g	7.4	

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-ST-B04-211221-D	8290A	2,3,4,7,8-PeCDF	13		1.1	5.3	pg/g	13	
SSR-ST-B04-211221-D	8290A	2,3,7,8-TCDD	2		0.67	1.1	pg/g	2.0	
SSR-ST-B04-211221-D	8290A	2,3,7,8-TCDF	12	G B	2.6	2.6	pg/g	12	J
SSR-ST-B04-211221-D	8290A	OCDD	6300	E B	4.3	11	pg/g	6300	J-
SSR-ST-B04-211221-D	8290A	OCDF	220	B	3	11	pg/g	220	
SSR-ST-B04-211221-D	8290A	Total HpCDD	1400	B	2.2	5.3	pg/g	1400	
SSR-ST-B04-211221-D	8290A	Total HpCDF	250	q B	3.2	5.3	pg/g	250	J
SSR-ST-B04-211221-D	8290A	Total HxCDD	400	q B	1.5	5.3	pg/g	400	J
SSR-ST-B04-211221-D	8290A	Total HxCDF	180	q B	1.3	5.3	pg/g	180	J
SSR-ST-B04-211221-D	8290A	Total PeCDD	19	q	1.8	5.3	pg/g	19	J
SSR-ST-B04-211221-D	8290A	Total PeCDF	120	q	1.1	5.3	pg/g	120	J
SSR-ST-B04-211221-D	8290A	Total TCDD	15	q	0.67	1.1	pg/g	15	J
SSR-ST-B04-211221-D	8290A	Total TCDF	100	B	0.92	1.1	pg/g	100	
SSR-ST-B04-211221-D	TEQ	Total Dioxin/Furan TEQ	31				pg/g	31	
SSR-ST-C02-211221	8290A	1,2,3,4,6,7,8-HpCDD	17	B	0.095	5.6	pg/g	17	
SSR-ST-C02-211221	8290A	1,2,3,4,6,7,8-HpCDF	2.7	J q B	0.15	5.6	pg/g	5.6	U
SSR-ST-C02-211221	8290A	1,2,3,4,7,8,9-HpCDF	0.19	U	0.19	5.6	pg/g	5.6	U
SSR-ST-C02-211221	8290A	1,2,3,4,7,8-HxCDD	0.38	J q B	0.069	5.6	pg/g	5.6	U
SSR-ST-C02-211221	8290A	1,2,3,4,7,8-HxCDF	0.89	J	0.059	5.6	pg/g	0.89	J
SSR-ST-C02-211221	8290A	1,2,3,6,7,8-HxCDD	1	J	0.066	5.6	pg/g	1.0	J
SSR-ST-C02-211221	8290A	1,2,3,6,7,8-HxCDF	0.39	J	0.057	5.6	pg/g	0.39	J
SSR-ST-C02-211221	8290A	1,2,3,7,8,9-HxCDD	0.71	J	0.059	5.6	pg/g	0.71	J
SSR-ST-C02-211221	8290A	1,2,3,7,8,9-HxCDF	0.11	J B	0.061	5.6	pg/g	5.6	U
SSR-ST-C02-211221	8290A	1,2,3,7,8-PeCDD	0.21	J	0.063	5.6	pg/g	0.21	J
SSR-ST-C02-211221	8290A	1,2,3,7,8-PeCDF	0.34	J	0.061	5.6	pg/g	0.34	J
SSR-ST-C02-211221	8290A	2,3,4,6,7,8-HxCDF	0.29	J	0.058	5.6	pg/g	0.29	J
SSR-ST-C02-211221	8290A	2,3,4,7,8-PeCDF	0.5	J	0.062	5.6	pg/g	0.50	J
SSR-ST-C02-211221	8290A	2,3,7,8-TCDD	0.29	J q	0.057	1.1	pg/g	0.29	J
SSR-ST-C02-211221	8290A	2,3,7,8-TCDF	0.65	J B	0.38	1.1	pg/g	1.1	U
SSR-ST-C02-211221	8290A	OCDD	140	B	0.12	11	pg/g	140	
SSR-ST-C02-211221	8290A	OCDF	4.2	J B	0.086	11	pg/g	11	U
SSR-ST-C02-211221	8290A	Total HpCDD	40	B	0.095	5.6	pg/g	40	
SSR-ST-C02-211221	8290A	Total HpCDF	5.8	q B	0.17	5.6	pg/g	5.8	J
SSR-ST-C02-211221	8290A	Total HxCDD	8.9	q B	0.065	5.6	pg/g	8.9	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-ST-C02-211221	8290A	Total HxCDF	4.3	J B	0.059	5.6	pg/g	5.6	U
SSR-ST-C02-211221	8290A	Total PeCDD	1.2	J q	0.063	5.6	pg/g	1.2	J
SSR-ST-C02-211221	8290A	Total PeCDF	4.5	J q	0.062	5.6	pg/g	4.5	J
SSR-ST-C02-211221	8290A	Total TCDD	1.1	q	0.057	1.1	pg/g	1.1	J
SSR-ST-C02-211221	8290A	Total TCDF	5.2	q B	0.042	1.1	pg/g	5.2	J
SSR-ST-C02-211221	TEQ	Total Dioxin/Furan TEQ	1.4				pg/g	1.4	
SSR-ST-C03-211221	8290A	1,2,3,4,6,7,8-HpCDD	500	B	3.7	5.4	pg/g	500	J
SSR-ST-C03-211221	8290A	1,2,3,4,6,7,8-HpCDF	25	q B	0.53	5.4	pg/g	25	J
SSR-ST-C03-211221	8290A	1,2,3,4,7,8,9-HpCDF	2.2	J B	0.67	5.4	pg/g	5.4	U
SSR-ST-C03-211221	8290A	1,2,3,4,7,8-HxCDD	1.8	J B	0.39	5.4	pg/g	5.4	U
SSR-ST-C03-211221	8290A	1,2,3,4,7,8-HxCDF	2.5	J	0.16	5.4	pg/g	2.5	J
SSR-ST-C03-211221	8290A	1,2,3,6,7,8-HxCDD	5	J	0.37	5.4	pg/g	5.0	J
SSR-ST-C03-211221	8290A	1,2,3,6,7,8-HxCDF	1.1	J	0.15	5.4	pg/g	1.1	J
SSR-ST-C03-211221	8290A	1,2,3,7,8,9-HxCDD	2.5	J	0.33	5.4	pg/g	2.5	J
SSR-ST-C03-211221	8290A	1,2,3,7,8,9-HxCDF	0.16	U	0.16	5.4	pg/g	5.4	U
SSR-ST-C03-211221	8290A	1,2,3,7,8-PeCDD	0.58	J	0.095	5.4	pg/g	0.58	J
SSR-ST-C03-211221	8290A	1,2,3,7,8-PeCDF	0.88	J	0.1	5.4	pg/g	0.88	J
SSR-ST-C03-211221	8290A	2,3,4,6,7,8-HxCDF	0.71	J	0.15	5.4	pg/g	0.71	J
SSR-ST-C03-211221	8290A	2,3,4,7,8-PeCDF	1.2	J	0.1	5.4	pg/g	1.2	J
SSR-ST-C03-211221	8290A	2,3,7,8-TCDD	0.24	J q	0.055	1.1	pg/g	0.24	J
SSR-ST-C03-211221	8290A	2,3,7,8-TCDF	1.3	B	0.37	1.1	pg/g	1.3	
SSR-ST-C03-211221	8290A	OCDD	6900	E B	1.8	11	pg/g	6900	J
SSR-ST-C03-211221	8290A	OCDF	140	B	0.12	11	pg/g	140	J
SSR-ST-C03-211221	8290A	Total HpCDD	3800	B	3.7	5.4	pg/g	3800	J
SSR-ST-C03-211221	8290A	Total HpCDF	110	q B	0.6	5.4	pg/g	110	J
SSR-ST-C03-211221	8290A	Total HxCDD	170	B	0.36	5.4	pg/g	170	J
SSR-ST-C03-211221	8290A	Total HxCDF	22	B	0.16	5.4	pg/g	22	
SSR-ST-C03-211221	8290A	Total PeCDD	5.9	q	0.095	5.4	pg/g	5.9	J
SSR-ST-C03-211221	8290A	Total PeCDF	12	q	0.1	5.4	pg/g	12	J
SSR-ST-C03-211221	8290A	Total TCDD	3.4	q	0.055	1.1	pg/g	3.4	J
SSR-ST-C03-211221	8290A	Total TCDF	17	q B	0.076	1.1	pg/g	17	J
SSR-ST-C03-211221	TEQ	Total Dioxin/Furan TEQ	10				pg/g	10	J
SSR-ST-C03-211221-D	8290A	1,2,3,4,6,7,8-HpCDD	130	B	0.72	5.5	pg/g	130	J
SSR-ST-C03-211221-D	8290A	1,2,3,4,6,7,8-HpCDF	11	B q	0.24	5.5	pg/g	11	J

RMG SITE SOIL ANALYTICAL RESULTS SUMMARY
EUROFINS TESTAMERICA REPORT NO. 500-210257-2

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-ST-C03-211221-D	8290A	1,2,3,4,7,8,9-HpCDF	0.95	J B q	0.3	5.5	pg/g	5.5	U
SSR-ST-C03-211221-D	8290A	1,2,3,4,7,8-HxCDD	0.95	J B	0.19	5.5	pg/g	5.5	U
SSR-ST-C03-211221-D	8290A	1,2,3,4,7,8-HxCDF	2.1	J	0.13	5.5	pg/g	2.1	J
SSR-ST-C03-211221-D	8290A	1,2,3,6,7,8-HxCDD	2.2	J	0.18	5.5	pg/g	2.2	J
SSR-ST-C03-211221-D	8290A	1,2,3,6,7,8-HxCDF	0.87	J	0.13	5.5	pg/g	0.87	J
SSR-ST-C03-211221-D	8290A	1,2,3,7,8,9-HxCDD	2.6	J	0.16	5.5	pg/g	2.6	J
SSR-ST-C03-211221-D	8290A	1,2,3,7,8,9-HxCDF	0.13	U	0.13	5.5	pg/g	5.5	U
SSR-ST-C03-211221-D	8290A	1,2,3,7,8-PeCDD	0.35	J q	0.099	5.5	pg/g	0.35	J
SSR-ST-C03-211221-D	8290A	1,2,3,7,8-PeCDF	0.77	J	0.093	5.5	pg/g	0.77	J
SSR-ST-C03-211221-D	8290A	2,3,4,6,7,8-HxCDF	0.63	J	0.13	5.5	pg/g	0.63	J
SSR-ST-C03-211221-D	8290A	2,3,4,7,8-PeCDF	1.1	J	0.095	5.5	pg/g	1.1	J
SSR-ST-C03-211221-D	8290A	2,3,7,8-TCDD	0.28	J q	0.061	1.1	pg/g	0.28	J
SSR-ST-C03-211221-D	8290A	2,3,7,8-TCDF	1.3	B	0.25	1.1	pg/g	1.3	
SSR-ST-C03-211221-D	8290A	OCDD	1700	B	0.55	11	pg/g	1700	J
SSR-ST-C03-211221-D	8290A	OCDF	37	B	0.11	11	pg/g	37	J
SSR-ST-C03-211221-D	8290A	Total HpCDD	850	B	0.72	5.5	pg/g	850	J
SSR-ST-C03-211221-D	8290A	Total HpCDF	35	B q	0.27	5.5	pg/g	35	J
SSR-ST-C03-211221-D	8290A	Total HxCDD	48	B	0.18	5.5	pg/g	48	J
SSR-ST-C03-211221-D	8290A	Total HxCDF	14	B q	0.13	5.5	pg/g	14	J
SSR-ST-C03-211221-D	8290A	Total PeCDD	3.3	J q	0.099	5.5	pg/g	3.3	J
SSR-ST-C03-211221-D	8290A	Total PeCDF	11		0.094	5.5	pg/g	11	
SSR-ST-C03-211221-D	8290A	Total TCDD	2.5	q	0.061	1.1	pg/g	2.5	J
SSR-ST-C03-211221-D	8290A	Total TCDF	12	B q	0.061	1.1	pg/g	12	J
SSR-ST-C03-211221-D	TEQ	Total Dioxin/Furan TEQ	4.3				pg/g	4.3	J

DATA VALIDATION CHECKLIST – STAGE 3

Site Name	RMG SITE	**Project No.**	103Z328406002
Data Reviewer (signature and date)	Bruce Welch January 31, 2022	**Technical Reviewer (signature and date)**	Harry N. Ellis III 1 February 2022
Laboratory Report No.	500-210257-3	**Laboratory**	Eurofins TestAmerica - Chicago, IL
Analyses	Semi-volatile organic compounds (SVOC) by SW-846 Method 8270D		
Samples and Matrix	Fourteen solid samples, including two solid field duplicate samples		
Date Collected	December 21, 2021		
Field Duplicate Pairs	SSR-ST-B04-211221 / SSR-ST-B04-211221-D and SSR-ST-C03-211221 / SSR-ST-C03-211221-D		
Field QC Blanks	None		

INTRODUCTION

This checklist summarizes the Stage 3 validation performed on the subject laboratory report in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (January 2020).

OVERALL EVALUATION

No rejection of the data was required for this data package. The results may be used as qualified based on the findings of this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
N	The decafluorotriphenylphosphine (DFTPP) solution 500-637816/1, which was analyzed on January 14, 2022, at 08:01 before the initial calibration, was missing from the Level IV data package. The laboratory was contacted, and they provided a revised Level IV data package with the missing data for this DFTPP solution.

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
N	The laboratory initially extracted the samples within the 14-day holding time requirement. However, the laboratory was unable to analyze the samples that were extracted within the holding time requirement due to interferences with the gas chromatography-mass spectrometry instrumentation because the samples were severely contaminated. The laboratory identified the anhydrous sodium sulfate that the laboratory used to prepare the samples and batch quality control samples was contaminated. After the laboratory resolved the contamination issue, the samples were re-extracted outside of the holding time. The samples were re-extracted ten days after the 14-day holding time requirement, but within two times the 14-day holding time requirement; therefore, all SVOC positive detections were qualified as estimated, possibly biased low (flagged J-), and all SVOC nondetect sample results were qualified as estimated (flagged UJ), unless further qualified by competing qualifications.

Instrument Performance Checks:

Within Criteria	Exceedance/Notes
N	EPA SW-846 Method 8270 states that a DFTPP solution should be prepared with benzidine and pentachlorophenol, with the total amount injected of each not exceeding 50 nanograms (ng), and that the tailing factor of these analytes must not exceed 2.0. The DFTPP solution analyzed on January 15, 2022, at 08:44 had peak tailing factors for benzidine and pentachlorophenol exceeding the 2.0 limit. This DFTPP solution was analyzed before the method blank and laboratory control sample (LCS). Additionally, the DFTPP solution that was analyzed on January 17, 2022, at 08:00 had a 2.4 peak tailing factor for pentachlorophenol. This DFTPP solution was analyzed before all sample fractions except for benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene for samples SSR-ST-B03-211221 and SSR-ST-B04-211221. All analytes for both continuing calibration verification (CCV) solutions 500-637896/2 and 500-638050/2 were analyzed after these DFTPP solutions met the response factor (RF) acceptance criteria, which suggests the sensitivity of the instrument between the time of the initial calibration and the time of sample analysis was minimally affected. However, tailing factors also measure instrument inertness and overall performance of the analytical system; therefore, due to potential degradation of instrument performance, all acid extractable sample results, except for samples SSR-ST-B03-211221 and SSR-ST-B04-211221, were qualified as estimated (flagged J/UJ) unless further qualified from holding time, internal standard, or LCS exceedances. No qualifications were applied to the method blank or LCS results. The laboratory stated in the narrative that the pentachlorophenol tailing factor was 1.31 in the CCV solution 500-638050/2, which meets the method criteria; however, laboratory evaluation is not acceptable and may be disregarded because the pentachlorophenol injected concentration in the CCV was 70 ng, which exceeds the 50 ng or less method requirement.

Initial Calibration:

Within Criteria	Exceedance/Notes
Y	

Continuing Calibration:

Within Criteria	Exceedance/Notes
N	The CCV 500-638050/2 analyzed on January 17, 2022, at 08:21 had a -78.8 percent difference (%D) for 2,2’-oxybis(1-chloropropane), -25.5 %D for N-nitrosodi-n-propylamine, 20.2 %D for 2,4-dichlorophenol, -26.3 %D for 2-nitroaniline, 21.0 %D for 2,4-dinitrotoluene, 45.6 %D for carbazole, and 116.0 %D for 3,3’-dichlorobenzidine, exceeding the laboratory 20 %D acceptance limit. Therefore, the results for these analytes for all samples analyzed on January 17, 2022, were qualified as estimated (flagged J/UJ), unless further qualified by competing qualifications. The low-level CCV 500-638050/3 had a -78.3 %D for 2,2’-oxybis(1-chloropropane), exceeding the laboratory 50 %D acceptance limit; therefore, the 2,2'-oxybis[1-chloropropane] nondetect results for all samples analyzed on January 17, 2022, were qualified as estimated (flagged UJ), unless further qualified by competing qualifications. The CCV 500-637902/2 analyzed on January 15, 2022, at 09:06, had a 21.4 %D for isophorone, 20.9 %D for 2-methylnaphthalene, -28.0 %D for hexachlorocyclopentadiene, 20.9 %D for acenaphthylene, 21.2 %D for dibenzofuran, 21.5 %D for diethyl phthalate, 23.2 %D for carbazole, 21.8 %D for di-n-butyl phthalate, and 20.1 %D for di-n-octyl phthalate, exceeding the laboratory 20 %D acceptance limit. However, no qualifications were applied because the sample results were not reported from this analytical sequence. The CCV 500-637896/2 that was analyzed on January 15, 2022, at 09:05, had a 21.0 %D value for 2-nitrophenol, 21.8 %D for 3-nitroaniline, 71.9 %D for carbazole, 21.4 %D for fluoranthene, 23.2 %D for bis(2-ethylhexyl) phthalate, 136.9 %D for 3,3’-dichlorobenzidine, 24.6 %D for di-n-octyl phthalate, and 20.7 %D for dibenz(a,h)anthracene, exceeding the laboratory 20 %D acceptance limit. However, no qualifications were applied to the sample results because this CCV was only associated with the batch method blank and laboratory control sample.

Calibration Verification:

Within Criteria	Exceedance/Notes
N	The initial calibration verification (ICV) 500-637085/13 analyzed on January 10, 2022, at 14:01 had a 33.5 %D value for carbazole; however, no qualifications were applied because the %D value met the NFG 40 %D acceptance limit. Additionally, this ICV solution had a 96.2 %D for 3,3-dichlorobenzidine, exceeding the NFG 40 %D acceptance limit; therefore, all 3,3-dichlorobenzidine non-detect sample results were qualified as estimated (flagged UJ). The ICV 500-638367/18 analyzed on January 11, 2022, at 09:11, had a 43.7 %D value for 3,3-dichlorobenzidine, exceeding the NFG 40 %D acceptance limit. However, no qualifications were applied because associated sample results were analyzed and reported from a different instrument and initial calibration. While no qualifications were applied, the data user should note this ICV solution was associated with the batch method blank and laboratory control sample.

Method blanks:

Within Criteria	Exceedance/Notes
Y	

Field blanks:

Within Criteria	Exceedance/Notes
NA	

Interference Check Samples (ICS) (ICP metals only):

Within Criteria	Exceedance/Notes
NA	

System monitoring compounds (surrogates and labeled compounds):

Within Criteria	Exceedance/Notes
N	The recoveries for all surrogates for samples SSR-SS-B01-211221, SSR-SS-B02-211221, SSR-ST-B03-211221, SSR-ST-B04-211221, SSR-ST-B04-211221-D, SSR-SS-C01-211221, SSR-ST-C03-211221, and SSR-ST-C03-211221-D, as well as the recoveries for the re-analyzed samples SSR-SS-A01-211221, SSR-SS-A02-211221, SSR-ST-A03-211221, and SSR-RD-A04-211221 were 0.0 percent, which is less than the NFG acceptance criteria; however, no qualifications were applied because the surrogates for these samples were diluted out, and for the re-analyzed samples, the surrogate recoveries from the initial sample analyses were within the laboratory acceptance criteria.

MS/MSD:

Within Criteria	Exceedance/Notes
NA	

Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	

Serial dilutions:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
N	**SSR-ST-B04-211221/SSR-ST-B04-211221-D**: The absolute difference for benzo[b]fluoranthene exceeded the reporting limit (RL); therefore, the benzo[b]fluoranthene result for the parent sample was qualified as estimated (flagged J), and no qualifications were applied to the benzo[b]fluoranthene nondetect result for field duplicate unless further qualified by competing qualifications.

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
N	The LCS recoveries for 3,3'-dichlorobenzidine and carbazole exceeded the laboratory acceptance criteria; however, no qualifications were applied because the sample results for these analytes were non-detect, with one exception. The carbazole result for sample SSR-SS-A02-211221 was qualified as estimated, possibly biased high (flagged J+); however, due to competing low bias from the holding time exceedance, the carbazole result for sample SSR-SS-A02-211221 was qualified as estimated (flagged J).

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	While no qualifications were applied for dilutions, the data user should note the increased RLs. Sample SSR-ST-C02-211221 was analyzed at a 5-fold dilution. All other samples were analyzed at two dilutions, specifically 2-fold and 5-fold for sample SSR-ST-B00-211221; 10-fold and 50-fold for samples SSR-SS-A01-211221, SSR-SS-A02-211221, SSR-ST-A03-211221, and SSR-RD-A04-211221; and 20-fold and 50-fold for samples SSR-ST-B01-211221, SSR-SS-B02-211221, SSR-ST-B03-211221, SSR-ST-B04-211221, SSR-ST-B04-211221-D, SSR-SS-C01-211221, SSR-ST-C03-211221, and SSR-ST-C03-211221-D. Analytes were reported from the lesser dilution on January 17, 2022, unless the greater dilution yielded less apparent sample matrix interference in the chromatogram.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
N	The laboratory extracted the sample within the holding time, but the laboratory stated the extracts for the samples and batch quality control samples were severely contaminated and could not be analyzed within the preparation holding time. The laboratory identified that the sodium sulfate used to prepare the samples and batch quality control samples was contaminated. The laboratory resolved the contamination issue, and the samples were re-extracted outside of the holding time. The samples that were re-extracted outside of the holding time requirement were initially analyzed on January 15, 2022, with high dilutions, but these samples were re-analyzed with lesser dilutions on January 17, 2022, as described in the sample dilution section. The re-extracted samples were analyzed within the 40-day analytical holding time.

Second column confirmation (GC and HPLC analyses only):

Within Criteria	Exceedance/Notes
NA	

Internal Standards:

Within Criteria	Exceedance/Notes
N	Samples SSR-ST-B03-211221 and SSR-ST-B04-211221 produced instrument area responses for chrysene-d_{12} less than 50 percent but greater than 20 percent of the CCV standard instrument area response. Therefore, the butyl benzyl phthalate and 3,3'-dichlorobenzidine non-detect results for samples SSR-ST-B03-211221 and SSR-ST-B04-211221 were qualified as estimated (flagged UJ), and the pyrene, bis(2-ethylhexyl) phthalate, benzo[a]anthracene, and chrysene results for samples SSR-ST-B03-211221 and SSR-ST-B04-211221 were qualified as estimated, possibly biased high (flagged J+). Due to competing low bias from the holding time exceedance, the pyrene, bis(2-ethylhexyl) phthalate, benzo[a]anthracene, and chrysene results were qualified as estimated (flagged J). The instrument area responses for perylene-d_{12} for all samples were less than 50 percent but greater than 20 percent of the CCV standard instrument area response. Therefore, the positive detections for all samples for benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene were qualified as estimated, possible biased high (flagged J+), and the non-detect results were qualified as estimated (flagged UJ). Due to competing low bias from the holding time exceedance, the positive detections were qualified as estimated (flagged J).

Internal Standards (continued):

Within Criteria	Exceedance/Notes
N	The instrument area responses for perylene-d_{12} for lesser diluted samples SSR-ST-B03-211221 and SSR-ST-B04-211221 analyzed on January 17, 2022, were less than 20 percent of the CCV standard instrument area response. Therefore, the positive detections for benzo[b]fluoranthene, benzo[k]fluoranthene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene were qualified as estimated, possible biased high (flagged J+). Due to competing low bias from the holding time exceedance, the positive detections were qualified as estimated (flagged J). To avoid the rejection of nondetect results for these samples, the dibenz(a,h)anthracene result for sample SSR-ST-B03-211221 and the benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene results for sample SSR-ST-B04-211221 were reported from the more diluted analysis performed on January 15, 2022. The benzo[b]fluoranthene, benzo[k]fluoranthene, and indeno[1,2,3-cd]pyrene nondetect result for the sample SSR-ST-B03-211221, and the benzo[b]fluoranthene nondetect result for the sample SSR-ST-B04-211221 analyzed on January 15, 2022 were qualified as estimated (flagged UJ) unless further qualified by competing qualifications. Additionally, the dibenz(a,h)anthracene non-detect result for sample SSR-ST-B03-211221 and the benzo[k]fluoranthene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene nondetect results for the sample SSR-ST-B04-211221 analyzed on January 15, 2022, were qualified as estimated (flagged UJ).

Target analyte identification:

Within Criteria	Exceedance/Notes
N	The 125 secondary ion for the positively identified analyte benzo[a]pyrene was not present in the sample mass spectrum for samples SSR-RD-A04-211221, SSR-SS-B01-211221, SSR-SS-B02-211221, SSR-ST-B03-211221, SSR-ST-B04-211221, and SSR-ST-B04-211221-D. Because the mass spectrum did not meet the acceptance criteria, the benzo[a]pyrene result for samples SSR-RD-A04-211221, SSR-SS-B01-211221, SSR-SS-B02-211221, SSR-ST-B03-211221, and SSR-ST-B04-211221-D was qualified as nondetect (flagged U) and reported at the laboratory result, and the benzo[a]pyrene result for sample SSR-ST-B04-211221 was qualified as non-detect (flagged U) and reported at the RL. The 139 secondary ion for the positively identified analyte dibenz(a,h)anthracene was not present in the sample mass spectrum for samples SSR-RD-A04-211221, SSR-SS-A02-211221, and SSR-ST-A03-211221. Because the mass spectrum did not meet the acceptance criteria, the dibenz(a,h)anthracene result for samples SSR-RD-A04-211221, SSR-SS-A02-211221, and SSR-ST-A03-211221 was qualified as non-detect (flagged U) and reported at the RL.

Target analyte identification (continued):

Within Criteria	Exceedance/Notes
N	The 125 secondary ion for the positively identified analyte benzo[b]fluoranthene was not present in the sample mass spectrum for samples SSR-ST-B03-211221, SSR-ST-B04-211221, and SSR-ST-B04-211221-D. Because the mass spectrum did not meet the acceptance criteria, the benzo[b]fluoranthene result for samples SSR-ST-B03-211221 and SSR-ST-B04-211221-D was qualified as non-detect (flagged U) and reported at the laboratory result, and the benzo[b]fluoranthene result for sample SSR-ST-B04-211221 was qualified as non-detect (flagged U) and reported at the RL. The 125 secondary ion for the positively identified analyte benzo[k]fluoranthene was not present in the sample mass spectrum for samples SSR-ST-B03-211221 and SSR-ST-B04-211221-D. Because the mass spectrum did not meet the acceptance criteria, the benzo[k]fluoranthene result for sample SSR-ST-B04-211221-D was qualified as non-detect (flagged U) and reported at the laboratory result, and the benzo[k]fluoranthene result for sample SSR-ST-B03-211221 was qualified as non-detect (flagged U) and reported at the RL. The 138 secondary ion for the positively identified analyte indeno[1,2,3-cd]pyrene was not present in the sample mass spectrum for sample SSR-ST-B03-211221. Because the mass spectrum did not meet the acceptance criteria, the indeno[1,2,3-cd]pyrene result for sample SSR-ST-B03-211221 was qualified as non-detect (flagged U) and reported at the RL.

Analyte quantitation and MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	The non-detect results were reported at the RL values in the laboratory PDF report and were reported at the method detection limit (MDL) values in electronic data deliverable. Sample results between the MDL and the RL were qualified as estimated (flagged J) by the laboratory. The non-detect sample results are reported at the RL values in the attached qualified data table.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [none]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (RL).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (RL), which is considered approximate due to deficiencies in one or more quality control criteria.

500-210257-3 SVOC

ICV: 500-637085/13 1/10/2022 14:01

3,3'-dichlorobenzidine = 96.2% pg: 1488-1492

$$RRF = \frac{724014 \times 3.20\ \mu g \cdot mL^{-1}}{638813 \times 7.0\ \mu g \cdot mL^{-1}} = 0.5181$$ ✓

$$\%D = \left[\frac{0.5181 - 0.2641}{0.2641}\right] = 96.2\%$$ ✓

DFTPP: 500-638050/1 1/19/2022 08:00

m/z 199 = 7.0% pg: 1560-1568, 231

$$\frac{199}{198} = \frac{22360}{319552} \times 100 = 7.0\%$$ ✓

DDT % Breakdown = 1.00%

$$\%\ breakdown = \frac{4759 + 5376}{1006535 + 4759 + 5376} \times 100 = 1.0\%$$ ✓

Pentachlorophenol tailing = 2.4

$$\frac{0.041}{0.017} = 2.4$$ ✓

Benzidine = 2.0 $$\frac{0.036}{0.018} = 2.0$$ ✓

500-210257-3 SVOC

CCV: 500-638050/2 1/17/2022 08:21

Carbazole = 45.6%, 1.125 pg: 1505-1507

$$RRF = \frac{2304919 \times 3.2\ \mu g \cdot mL^{-1}}{936469 \times 7.0\ \mu g \cdot mL^{-1}} = 1.125$$

BW 1/31/2022

$$\%RD = \left[\frac{1.125 - 0.7727}{0.7727}\right] \times 100 = 46.6\%$$

LCS: 500-637724/2-A 1/15/2022 12:39

2-nitrophenol = 100%, 1.33 mg·kg⁻¹ pg: 60, ~~1588-1589~~ 1605, 972

$$C_x = \frac{\overset{555513}{\cancel{2636245}} \times 3.2\ \mu g \cdot mL^{-1}}{1094204 \times 0.2029} = 8.01\ \mu g \cdot mL^{-1}$$

BW 1/31/22

$$C_x = \frac{8.01\ \mu g \cdot mL^{-1} \times 2.5\ mL}{0.0150\ kg \times 1000\ \mu g \cdot mg^{-1}} = 1.33\ mg \cdot kg^{-1}$$

$$\%R = \left(\frac{1.33\ mg \cdot kg^{-1}}{1.33\ mg \cdot kg^{-1}}\right) \times 100 = 100\%$$

500-210257-3 SVOC

Surrogate : SSR-SS-A01-211221 1/17/2022 09:24

2-fluorobiphenyl = 100% pg: 58, 244, 247, 977

$$C_x = \frac{249828 \times 3.2\ \mu g \cdot mL^{-1}}{611095 \times 1.3843} = 1.00\ \mu g \cdot mL^{-1}$$ ✓

$$\%R = \left(\frac{1.00\ \mu g \cdot mL^{-1} \times DF10}{10.0\ \mu g \cdot mL^{-1}} \right) \times 100 = 100\%$$ ✓

Internal standard : SSR-SS-A02-211221 1/17/2022 09:45

perylene-d_{12} = 30% pg: 307, 238, 1506

$$\frac{\text{Sample}}{\text{CCV}} = \left(\frac{238860}{806990} \right) \times 100 = 30\%$$ ✓

$$\Delta RT = 14.33 - 14.28 = 0.05$$ ✓

Adjusted RL/MDL : SSR-ST-A03-211221 1/17/2022 10:06

1,2-dichlorobenzene $RL = 1.8\ mg \cdot kg^{-1}$, $MDL = 0.42\ mg \cdot kg^{-1}$ pg: 21, 59, 1605

Unadjusted 1,2-dichlorobenzene $RL = 0.17\ mg \cdot kg^{-1}$ ✓

$$\text{Adjusted RL: } \frac{0.17\ mg \cdot kg^{-1} \times 2.5\ mL \times 15\ g \times DF10}{2.5\ mL \times 15.9595\ g \times 0.884} = 1.8\ mg \cdot kg^{-1}$$

Unadjusted 1,2 dichlorobenzene $MDL = 0.040\ mg \cdot kg^{-1}$ ✓

$$\text{Adjusted MDL} = \frac{0.040\ mg \cdot kg^{-1} \times 2.5\ mL \times 15\ g \times DF10}{2.5\ mL \times 15.9595\ g \times 0.884} = 0.42\ mg \cdot kg^{-1}$$

3

500-210257-3 SVOC

Sample: SSR-SS-A01-211221 1/17/22 09:24

Benzo[A]pyrene = 2.8 $mg \cdot kg^{-1}$ pg: 15, 244-245, 977
1605

$$C_x = \frac{171352 \times 3.2\ \mu g \cdot mL^{-1}}{320752 \times 1.0836} = 1.58\ \mu g \cdot mL^{-1}$$ ✓

✓

$$C_x = \frac{1.58\ \mu g \cdot mL^{-1} \times 2.5\ mL \times DF10}{0.015980\ Kg \times 1000\ \mu g \cdot mg^{-1} \times 0.873} = 2.8\ mg \cdot kg^{-1}$$

RMG SITE SVOC INITAL CALIBRATION RECALCULATION
EUROFINS TESTAMERICA REPORT NO. 500-210257-3

Report: 500-210257-3
SVOC - Initial Calibration 1/10/2022
GC-MS Instrument CMS23 **Benzo[a]pyrene** Page: 977-1063

Level	1	2	3	4	5	6	7	8	9	10	11
Benzo[a]pyrene Concentration (µg/mL)	0.0400	0.100	0.200	0.400	1.00	2.00	4.00	8.00	10.0	12.0	14.0
Benzo[a]pyrene Response	8318	18832	38094	81821	199410	408321	830222	1694710	2373603	2794255	3476528
Perylene-d_{12} (µg/mL)	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Perylene-d_{12} Response	611996	610584	627828	635149	633917	627806	621337	620364	630379	616340	650862
RF	1.087	0.987	0.971	1.031	1.007	1.041	1.069	1.093	1.205	1.209	1.221

Std Dev: 0.0907
Mean RF: 1.0836 ✓
%RSD: 8.4 ✓

Level 1: 0.0400 µg/mL RF Check	Response	Concentration	Units	Page
Benzo[a]pyrene =	8318	0.040	µg/mL	1002
Perylene-d_{12} =	611996	3.2	µg/mL	1000

$$\frac{8318 \times 3.2}{611996 \times 0.040} = 1.087$$ ✓

RMG SITE SOIL ANALYTICAL RESULTS SUMMARY
EUROFINS TESTAMERICA REPORT NO. 500-210257-3

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-RD-A04-211221	8270D	1,2,4-Trichlorobenzene	0.38	U H	0.38	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	1,2-Dichlorobenzene	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	1,3-Dichlorobenzene	0.4	U H	0.4	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	1,4-Dichlorobenzene	0.45	U H	0.45	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	2,2'-oxybis[1-chloropropane]	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	2,4,5-Trichlorophenol	0.81	U H	0.81	3.5	mg/Kg	3.5	UJ
SSR-RD-A04-211221	8270D	2,4,6-Trichlorophenol	1.2	U H	1.2	3.5	mg/Kg	3.5	UJ
SSR-RD-A04-211221	8270D	2,4-Dichlorophenol	0.84	U H	0.84	3.5	mg/Kg	3.5	UJ
SSR-RD-A04-211221	8270D	2,4-Dimethylphenol	1.3	U H	1.3	3.5	mg/Kg	3.5	UJ
SSR-RD-A04-211221	8270D	2,4-Dinitrophenol	6.2	U H	6.2	7.2	mg/Kg	7.2	UJ
SSR-RD-A04-211221	8270D	2,4-Dinitrotoluene	0.56	U H	0.56	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	2,6-Dinitrotoluene	0.7	U H	0.7	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	2-Chloronaphthalene	0.39	U H	0.39	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	2-Chlorophenol	0.61	U H	0.61	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	2-Methylnaphthalene	0.11	J H	0.065	0.72	mg/Kg	0.11	J-
SSR-RD-A04-211221	8270D	2-Methylphenol	3.6	H	0.57	1.8	mg/Kg	3.6	J-
SSR-RD-A04-211221	8270D	2-Nitroaniline	0.48	U H	0.48	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	2-Nitrophenol	0.84	U H	0.84	3.5	mg/Kg	3.5	UJ
SSR-RD-A04-211221	8270D	3 & 4 Methylphenol	0.59	U H	0.59	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	3,3'-Dichlorobenzidine	0.5	U H *+	0.5	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	3-Nitroaniline	1.1	U H	1.1	3.5	mg/Kg	3.5	UJ
SSR-RD-A04-211221	8270D	4,6-Dinitro-2-methylphenol	2.9	U H	2.9	7.2	mg/Kg	7.2	UJ
SSR-RD-A04-211221	8270D	4-Bromophenyl phenyl ether	0.47	U H	0.47	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	4-Chloro-3-methylphenol	1.2	U H	1.2	3.5	mg/Kg	3.5	UJ
SSR-RD-A04-211221	8270D	4-Chloroaniline	1.7	U H	1.7	7.2	mg/Kg	7.2	UJ
SSR-RD-A04-211221	8270D	4-Chlorophenyl phenyl ether	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	4-Nitroaniline	1.5	U H	1.5	3.5	mg/Kg	3.5	UJ
SSR-RD-A04-211221	8270D	4-Nitrophenol	3.4	U H	3.4	7.2	mg/Kg	7.2	UJ
SSR-RD-A04-211221	8270D	Acenaphthene	0.076	J H	0.064	0.35	mg/Kg	0.076	J-
SSR-RD-A04-211221	8270D	Acenaphthylene	0.047	U H	0.047	0.35	mg/Kg	0.35	UJ
SSR-RD-A04-211221	8270D	Anthracene	0.27	J H	0.059	0.35	mg/Kg	0.27	J-
SSR-RD-A04-211221	8270D	Benzo[a]anthracene	1.1	H	0.048	0.35	mg/Kg	1.1	J-
SSR-RD-A04-211221	8270D	Benzo[a]pyrene	1.2	H *3	0.069	0.35	mg/Kg	1.2	U
SSR-RD-A04-211221	8270D	Benzo[b]fluoranthene	2.4	H *3	0.077	0.35	mg/Kg	2.4	J
SSR-RD-A04-211221	8270D	Benzo[g,h,i]perylene	0.32	J H *3	0.11	0.35	mg/Kg	0.32	J
SSR-RD-A04-211221	8270D	Benzo[k]fluoranthene	0.67	H *3	0.1	0.35	mg/Kg	0.67	J
SSR-RD-A04-211221	8270D	Bis(2-chloroethoxy)methane	0.36	U H	0.36	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Bis(2-chloroethyl)ether	0.53	U H	0.53	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Bis(2-ethylhexyl) phthalate	3.9	H	0.65	1.8	mg/Kg	3.9	J-
SSR-RD-A04-211221	8270D	Butyl benzyl phthalate	0.67	U H	0.67	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Carbazole	0.89	U H *+	0.89	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Chrysene	1.4	H	0.097	0.35	mg/Kg	1.4	J-
SSR-RD-A04-211221	8270D	Dibenz(a,h)anthracene	0.099	J H *3	0.069	0.35	mg/Kg	0.35	U
SSR-RD-A04-211221	8270D	Dibenzofuran	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Diethyl phthalate	0.6	U H	0.6	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Dimethyl phthalate	0.46	U H	0.46	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Di-n-butyl phthalate	0.54	U H	0.54	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Di-n-octyl phthalate	0.58	U H	0.58	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Fluoranthene	2.3	H	0.066	0.35	mg/Kg	2.3	J-
SSR-RD-A04-211221	8270D	Fluorene	0.11	J H	0.05	0.35	mg/Kg	0.11	J-
SSR-RD-A04-211221	8270D	Hexachlorobenzene	0.082	U H	0.082	0.72	mg/Kg	0.72	UJ
SSR-RD-A04-211221	8270D	Hexachlorobutadiene	0.56	U H	0.56	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Hexachlorocyclopentadiene	2	U H	2	7.2	mg/Kg	7.2	UJ
SSR-RD-A04-211221	8270D	Hexachloroethane	0.54	U H	0.54	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Indeno[1,2,3-cd]pyrene	0.36	H *3	0.092	0.35	mg/Kg	0.36	J
SSR-RD-A04-211221	8270D	Isophorone	0.4	U H	0.4	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Naphthalene	0.1	J H	0.055	0.35	mg/Kg	0.10	J-
SSR-RD-A04-211221	8270D	Nitrobenzene	0.089	U H	0.089	0.35	mg/Kg	0.35	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-RD-A04-211221	8270D	N-Nitrosodi-n-propylamine	0.43	U H	0.43	0.72	mg/Kg	0.72	UJ
SSR-RD-A04-211221	8270D	N-Nitrosodiphenylamine	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Pentachlorophenol	5.7	U H	5.7	7.2	mg/Kg	7.2	UJ
SSR-RD-A04-211221	8270D	Phenanthrene	0.78	H	0.049	0.35	mg/Kg	0.78	J-
SSR-RD-A04-211221	8270D	Phenol	0.79	U H	0.79	1.8	mg/Kg	1.8	UJ
SSR-RD-A04-211221	8270D	Pyrene	3.5	H	0.07	0.35	mg/Kg	3.5	J-
SSR-SS-A01-211221	8270D	1,2,4-Trichlorobenzene	0.38	U H	0.38	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	1,2-Dichlorobenzene	0.43	U H	0.43	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	1,3-Dichlorobenzene	0.4	U H	0.4	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	1,4-Dichlorobenzene	0.46	U H	0.46	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	2,2'-oxybis[1-chloropropane]	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	2,4,5-Trichlorophenol	0.81	U H	0.81	3.5	mg/Kg	3.5	UJ
SSR-SS-A01-211221	8270D	2,4,6-Trichlorophenol	1.2	U H	1.2	3.5	mg/Kg	3.5	UJ
SSR-SS-A01-211221	8270D	2,4-Dichlorophenol	0.85	U H	0.85	3.5	mg/Kg	3.5	UJ
SSR-SS-A01-211221	8270D	2,4-Dimethylphenol	1.4	U H	1.4	3.5	mg/Kg	3.5	UJ
SSR-SS-A01-211221	8270D	2,4-Dinitrophenol	6.3	U H	6.3	7.2	mg/Kg	7.2	UJ
SSR-SS-A01-211221	8270D	2,4-Dinitrotoluene	0.57	U H	0.57	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	2,6-Dinitrotoluene	0.7	U H	0.7	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	2-Chloronaphthalene	0.39	U H	0.39	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	2-Chlorophenol	0.61	U H	0.61	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	2-Methylnaphthalene	0.12	J H	0.066	0.72	mg/Kg	0.12	J-
SSR-SS-A01-211221	8270D	2-Methylphenol	0.57	U H	0.57	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	2-Nitroaniline	0.48	U H	0.48	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	2-Nitrophenol	0.84	U H	0.84	3.5	mg/Kg	3.5	UJ
SSR-SS-A01-211221	8270D	3 & 4 Methylphenol	0.6	U H	0.6	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	3,3'-Dichlorobenzidine	0.5	U H *+ ^1+	0.5	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	3-Nitroaniline	1.1	U H	1.1	3.5	mg/Kg	3.5	UJ
SSR-SS-A01-211221	8270D	4,6-Dinitro-2-methylphenol	2.9	U H	2.9	7.2	mg/Kg	7.2	UJ
SSR-SS-A01-211221	8270D	4-Bromophenyl phenyl ether	0.47	U H	0.47	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	4-Chloro-3-methylphenol	1.2	U H	1.2	3.5	mg/Kg	3.5	UJ
SSR-SS-A01-211221	8270D	4-Chloroaniline	1.7	U H	1.7	7.2	mg/Kg	7.2	UJ
SSR-SS-A01-211221	8270D	4-Chlorophenyl phenyl ether	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	4-Nitroaniline	1.5	U H	1.5	3.5	mg/Kg	3.5	UJ
SSR-SS-A01-211221	8270D	4-Nitrophenol	3.4	U H	3.4	7.2	mg/Kg	7.2	UJ
SSR-SS-A01-211221	8270D	Acenaphthene	0.34	J H	0.064	0.35	mg/Kg	0.34	J-
SSR-SS-A01-211221	8270D	Acenaphthylene	0.061	J H	0.047	0.35	mg/Kg	0.061	J-
SSR-SS-A01-211221	8270D	Anthracene	0.76	H	0.06	0.35	mg/Kg	0.76	J-
SSR-SS-A01-211221	8270D	Benzo[a]anthracene	2.6	H	0.048	0.35	mg/Kg	2.6	J-
SSR-SS-A01-211221	8270D	Benzo[a]pyrene	2.8	H *3	0.069	0.35	mg/Kg	2.8	J
SSR-SS-A01-211221	8270D	Benzo[b]fluoranthene	4.2	H *3	0.077	0.35	mg/Kg	4.2	J
SSR-SS-A01-211221	8270D	Benzo[g,h,i]perylene	0.95	H *3	0.12	0.35	mg/Kg	0.95	J
SSR-SS-A01-211221	8270D	Benzo[k]fluoranthene	1.8	H *3	0.11	0.35	mg/Kg	1.8	J
SSR-SS-A01-211221	8270D	Bis(2-chloroethoxy)methane	0.36	U H	0.36	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Bis(2-chloroethyl)ether	0.54	U H	0.54	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Bis(2-ethylhexyl) phthalate	6.2	H	0.65	1.8	mg/Kg	6.2	J-
SSR-SS-A01-211221	8270D	Butyl benzyl phthalate	0.68	U H	0.68	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Carbazole	0.89	U H *+ ^1+	0.89	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Chrysene	2.8	H	0.097	0.35	mg/Kg	2.8	J-
SSR-SS-A01-211221	8270D	Dibenz(a,h)anthracene	0.27	J H *3	0.069	0.35	mg/Kg	0.27	J
SSR-SS-A01-211221	8270D	Dibenzofuran	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Diethyl phthalate	0.61	U H	0.61	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Dimethyl phthalate	0.47	U H	0.47	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Di-n-butyl phthalate	0.54	U H	0.54	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Di-n-octyl phthalate	0.58	U H	0.58	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Fluoranthene	5.9	H	0.066	0.35	mg/Kg	5.9	J-
SSR-SS-A01-211221	8270D	Fluorene	0.29	J H	0.05	0.35	mg/Kg	0.29	J-
SSR-SS-A01-211221	8270D	Hexachlorobenzene	0.083	U H	0.083	0.72	mg/Kg	0.72	UJ
SSR-SS-A01-211221	8270D	Hexachlorobutadiene	0.56	U H	0.56	1.8	mg/Kg	1.8	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-A01-211221	8270D	Hexachlorocyclopentadiene	2.1	U H	2.1	7.2	mg/Kg	7.2	UJ
SSR-SS-A01-211221	8270D	Hexachloroethane	0.54	U H	0.54	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Indeno[1,2,3-cd]pyrene	0.94	H *3	0.093	0.35	mg/Kg	0.94	J
SSR-SS-A01-211221	8270D	Isophorone	0.4	U H	0.4	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Naphthalene	0.18	J H	0.055	0.35	mg/Kg	0.18	J-
SSR-SS-A01-211221	8270D	Nitrobenzene	0.089	U H	0.089	0.35	mg/Kg	0.35	UJ
SSR-SS-A01-211221	8270D	N-Nitrosodi-n-propylamine	0.44	U H	0.44	0.72	mg/Kg	0.72	UJ
SSR-SS-A01-211221	8270D	N-Nitrosodiphenylamine	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Pentachlorophenol	5.7	U H	5.7	7.2	mg/Kg	7.2	UJ
SSR-SS-A01-211221	8270D	Phenanthrene	3	H	0.05	0.35	mg/Kg	3.0	J-
SSR-SS-A01-211221	8270D	Phenol	0.79	U H	0.79	1.8	mg/Kg	1.8	UJ
SSR-SS-A01-211221	8270D	Pyrene	6	H	0.071	0.35	mg/Kg	6.0	J-
SSR-SS-A02-211221	8270D	1,2,4-Trichlorobenzene	0.41	U H ^1-	0.41	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	1,2-Dichlorobenzene	0.46	U H ^1-	0.46	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	1,3-Dichlorobenzene	0.43	U H ^1-	0.43	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	1,4-Dichlorobenzene	0.49	U H ^1-	0.49	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	2,2'-oxybis[1-chloropropane]	0.44	U H ^1-	0.44	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	2,4,5-Trichlorophenol	0.87	U H ^1-	0.87	3.8	mg/Kg	3.8	UJ
SSR-SS-A02-211221	8270D	2,4,6-Trichlorophenol	1.3	U H ^1-	1.3	3.8	mg/Kg	3.8	UJ
SSR-SS-A02-211221	8270D	2,4-Dichlorophenol	0.91	U H ^1-	0.91	3.8	mg/Kg	3.8	UJ
SSR-SS-A02-211221	8270D	2,4-Dimethylphenol	1.4	U H ^1-	1.4	3.8	mg/Kg	3.8	UJ
SSR-SS-A02-211221	8270D	2,4-Dinitrophenol	6.7	U H ^1-	6.7	7.7	mg/Kg	7.7	UJ
SSR-SS-A02-211221	8270D	2,4-Dinitrotoluene	0.61	U H ^1-	0.61	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	2,6-Dinitrotoluene	0.75	U H ^1-	0.75	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	2-Chloronaphthalene	0.42	U H ^1-	0.42	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	2-Chlorophenol	0.65	U H ^1-	0.65	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	2-Methylnaphthalene	0.28	J H ^1-	0.07	0.77	mg/Kg	0.28	J-
SSR-SS-A02-211221	8270D	2-Methylphenol	0.61	U H ^1-	0.61	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	2-Nitroaniline	0.51	U H ^1-	0.51	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	2-Nitrophenol	0.9	U H ^1-	0.9	3.8	mg/Kg	3.8	UJ
SSR-SS-A02-211221	8270D	3 & 4 Methylphenol	0.64	U H ^1-	0.64	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	3,3'-Dichlorobenzidine	0.53	U H *+ ^1+	0.53	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	3-Nitroaniline	1.2	U H ^1-	1.2	3.8	mg/Kg	3.8	UJ
SSR-SS-A02-211221	8270D	4,6-Dinitro-2-methylphenol	3.1	U H ^1-	3.1	7.7	mg/Kg	7.7	UJ
SSR-SS-A02-211221	8270D	4-Bromophenyl phenyl ether	0.5	U H ^1-	0.5	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	4-Chloro-3-methylphenol	1.3	U H ^1-	1.3	3.8	mg/Kg	3.8	UJ
SSR-SS-A02-211221	8270D	4-Chloroaniline	1.8	U H ^1-	1.8	7.7	mg/Kg	7.7	UJ
SSR-SS-A02-211221	8270D	4-Chlorophenyl phenyl ether	0.45	U H ^1-	0.45	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	4-Nitroaniline	1.6	U H ^1-	1.6	3.8	mg/Kg	3.8	UJ
SSR-SS-A02-211221	8270D	4-Nitrophenol	3.6	U H ^1-	3.6	7.7	mg/Kg	7.7	UJ
SSR-SS-A02-211221	8270D	Acenaphthene	0.65	H ^1-	0.069	0.38	mg/Kg	0.65	J-
SSR-SS-A02-211221	8270D	Acenaphthylene	0.05	U H ^1-	0.05	0.38	mg/Kg	0.38	UJ
SSR-SS-A02-211221	8270D	Anthracene	3.7	H ^1-	0.064	0.38	mg/Kg	3.7	J-
SSR-SS-A02-211221	8270D	Benzo[a]anthracene	2.7	H ^1-	0.051	0.38	mg/Kg	2.7	J-
SSR-SS-A02-211221	8270D	Benzo[a]pyrene	2.9	H *3 ^1-	0.074	0.38	mg/Kg	2.9	J
SSR-SS-A02-211221	8270D	Benzo[b]fluoranthene	4.4	H *3 ^1-	0.082	0.38	mg/Kg	4.4	J
SSR-SS-A02-211221	8270D	Benzo[g,h,i]perylene	0.84	H *3 ^1-	0.12	0.38	mg/Kg	0.84	J
SSR-SS-A02-211221	8270D	Benzo[k]fluoranthene	1.7	H *3 ^1-	0.11	0.38	mg/Kg	1.7	J
SSR-SS-A02-211221	8270D	Bis(2-chloroethoxy)methane	0.39	U H ^1-	0.39	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	Bis(2-chloroethyl)ether	0.57	U H ^1-	0.57	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	Bis(2-ethylhexyl) phthalate	3.5	H ^1-	0.7	1.9	mg/Kg	3.5	J-
SSR-SS-A02-211221	8270D	Butyl benzyl phthalate	0.73	U H ^1-	0.73	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	Carbazole	1.5	J H *+	0.95	1.9	mg/Kg	1.5	J
SSR-SS-A02-211221	8270D	Chrysene	3.1	H ^1-	0.1	0.38	mg/Kg	3.1	J-
SSR-SS-A02-211221	8270D	Dibenz(a,h)anthracene	0.24	J H *3 ^1-	0.074	0.38	mg/Kg	0.38	U
SSR-SS-A02-211221	8270D	Dibenzofuran	0.47	J H ^1-	0.45	1.9	mg/Kg	0.47	J-
SSR-SS-A02-211221	8270D	Diethyl phthalate	0.65	U H ^1-	0.65	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	Dimethyl phthalate	0.5	U H ^1-	0.5	1.9	mg/Kg	1.9	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-A02-211221	8270D	Di-n-butyl phthalate	0.58	U H ^1-	0.58	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	Di-n-octyl phthalate	0.62	U H ^1-	0.62	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	Fluoranthene	7.9	H ^1-	0.071	0.38	mg/Kg	7.9	J-
SSR-SS-A02-211221	8270D	Fluorene	0.9	H ^1-	0.054	0.38	mg/Kg	0.90	J-
SSR-SS-A02-211221	8270D	Hexachlorobenzene	0.088	U H ^1-	0.088	0.77	mg/Kg	0.77	UJ
SSR-SS-A02-211221	8270D	Hexachlorobutadiene	0.6	U H ^1-	0.6	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	Hexachlorocyclopentadiene	2.2	U H ^1-	2.2	7.7	mg/Kg	7.7	UJ
SSR-SS-A02-211221	8270D	Hexachloroethane	0.58	U H ^1-	0.58	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	Indeno[1,2,3-cd]pyrene	0.8	H *3 ^1-	0.099	0.38	mg/Kg	0.80	J
SSR-SS-A02-211221	8270D	Isophorone	0.43	U H ^1-	0.43	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	Naphthalene	0.31	J H ^1-	0.059	0.38	mg/Kg	0.31	J-
SSR-SS-A02-211221	8270D	Nitrobenzene	0.095	U H ^1-	0.095	0.38	mg/Kg	0.38	UJ
SSR-SS-A02-211221	8270D	N-Nitrosodi-n-propylamine	0.47	U H ^1-	0.47	0.77	mg/Kg	0.77	UJ
SSR-SS-A02-211221	8270D	N-Nitrosodiphenylamine	0.45	U H ^1-	0.45	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	Pentachlorophenol	6.1	U H ^1-	6.1	7.7	mg/Kg	7.7	UJ
SSR-SS-A02-211221	8270D	Phenanthrene	6.7	H ^1-	0.053	0.38	mg/Kg	6.7	J-
SSR-SS-A02-211221	8270D	Phenol	0.85	U H ^1-	0.85	1.9	mg/Kg	1.9	UJ
SSR-SS-A02-211221	8270D	Pyrene	9	H ^1-	0.076	0.38	mg/Kg	9.0	J-
SSR-SS-B01-211221	8270D	1,2,4-Trichlorobenzene	0.82	U H	0.82	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	1,2-Dichlorobenzene	0.91	U H	0.91	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	1,3-Dichlorobenzene	0.85	U H	0.85	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	1,4-Dichlorobenzene	0.97	U H	0.97	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	2,2'-oxybis[1-chloropropane]	0.88	U H	0.88	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	2,4,5-Trichlorophenol	1.7	U H	1.7	7.5	mg/Kg	7.5	UJ
SSR-SS-B01-211221	8270D	2,4,6-Trichlorophenol	2.6	U H	2.6	7.5	mg/Kg	7.5	UJ
SSR-SS-B01-211221	8270D	2,4-Dichlorophenol	1.8	U H	1.8	7.5	mg/Kg	7.5	UJ
SSR-SS-B01-211221	8270D	2,4-Dimethylphenol	2.9	U H	2.9	7.5	mg/Kg	7.5	UJ
SSR-SS-B01-211221	8270D	2,4-Dinitrophenol	13	U H	13	15	mg/Kg	15	UJ
SSR-SS-B01-211221	8270D	2,4-Dinitrotoluene	1.2	U H	1.2	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	2,6-Dinitrotoluene	1.5	U H	1.5	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	2-Chloronaphthalene	0.84	U H	0.84	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	2-Chlorophenol	1.3	U H	1.3	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	2-Methylnaphthalene	0.14	U H	0.14	1.5	mg/Kg	1.5	UJ
SSR-SS-B01-211221	8270D	2-Methylphenol	1.2	U H	1.2	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	2-Nitroaniline	1	U H	1	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	2-Nitrophenol	1.8	U H	1.8	7.5	mg/Kg	7.5	UJ
SSR-SS-B01-211221	8270D	3 & 4 Methylphenol	1.3	U H	1.3	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	3,3'-Dichlorobenzidine	1.1	U H *+	1.1	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	3-Nitroaniline	2.4	U H	2.4	7.5	mg/Kg	7.5	UJ
SSR-SS-B01-211221	8270D	4,6-Dinitro-2-methylphenol	6.1	U H	6.1	15	mg/Kg	15	UJ
SSR-SS-B01-211221	8270D	4-Bromophenyl phenyl ether	1	U H	1	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	4-Chloro-3-methylphenol	2.6	U H	2.6	7.5	mg/Kg	7.5	UJ
SSR-SS-B01-211221	8270D	4-Chloroaniline	3.6	U H	3.6	15	mg/Kg	15	UJ
SSR-SS-B01-211221	8270D	4-Chlorophenyl phenyl ether	0.89	U H	0.89	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	4-Nitroaniline	3.2	U H	3.2	7.5	mg/Kg	7.5	UJ
SSR-SS-B01-211221	8270D	4-Nitrophenol	7.2	U H	7.2	15	mg/Kg	15	UJ
SSR-SS-B01-211221	8270D	Acenaphthene	0.14	U H	0.14	0.75	mg/Kg	0.75	UJ
SSR-SS-B01-211221	8270D	Acenaphthylene	0.1	U H	0.1	0.75	mg/Kg	0.75	UJ
SSR-SS-B01-211221	8270D	Anthracene	0.27	J H	0.13	0.75	mg/Kg	0.27	J-
SSR-SS-B01-211221	8270D	Benzo[a]anthracene	0.79	H	0.1	0.75	mg/Kg	0.79	J-
SSR-SS-B01-211221	8270D	Benzo[a]pyrene	0.89	H *3	0.15	0.75	mg/Kg	0.89	U
SSR-SS-B01-211221	8270D	Benzo[b]fluoranthene	1.7	H *3	0.16	0.75	mg/Kg	1.7	J
SSR-SS-B01-211221	8270D	Benzo[g,h,i]perylene	0.4	J H *3	0.24	0.75	mg/Kg	0.40	J
SSR-SS-B01-211221	8270D	Benzo[k]fluoranthene	0.51	J H *3	0.22	0.75	mg/Kg	0.51	J
SSR-SS-B01-211221	8270D	Bis(2-chloroethoxy)methane	0.77	U H	0.77	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Bis(2-chloroethyl)ether	1.1	U H	1.1	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Bis(2-ethylhexyl) phthalate	2.6	J H	1.4	3.8	mg/Kg	2.6	J-
SSR-SS-B01-211221	8270D	Butyl benzyl phthalate	1.4	U H	1.4	3.8	mg/Kg	3.8	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-B01-211221	8270D	Carbazole	1.9	U H *+	1.9	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Chrysene	0.97	H	0.21	0.75	mg/Kg	0.97	J-
SSR-SS-B01-211221	8270D	Dibenz(a,h)anthracene	0.15	U H *3	0.15	0.75	mg/Kg	0.75	UJ
SSR-SS-B01-211221	8270D	Dibenzofuran	0.89	U H	0.89	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Diethyl phthalate	1.3	U H	1.3	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Dimethyl phthalate	0.99	U H	0.99	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Di-n-butyl phthalate	1.2	U H	1.2	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Di-n-octyl phthalate	1.2	U H	1.2	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Fluoranthene	1.5	H	0.14	0.75	mg/Kg	1.5	J-
SSR-SS-B01-211221	8270D	Fluorene	0.11	U H	0.11	0.75	mg/Kg	0.75	UJ
SSR-SS-B01-211221	8270D	Hexachlorobenzene	0.18	U H	0.18	1.5	mg/Kg	1.5	UJ
SSR-SS-B01-211221	8270D	Hexachlorobutadiene	1.2	U H	1.2	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Hexachlorocyclopentadiene	4.4	U H	4.4	15	mg/Kg	15	UJ
SSR-SS-B01-211221	8270D	Hexachloroethane	1.2	U H	1.2	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Indeno[1,2,3-cd]pyrene	0.42	J H *3	0.2	0.75	mg/Kg	0.42	J
SSR-SS-B01-211221	8270D	Isophorone	0.85	U H	0.85	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Naphthalene	0.12	U H	0.12	0.75	mg/Kg	0.75	UJ
SSR-SS-B01-211221	8270D	Nitrobenzene	0.19	U H	0.19	0.75	mg/Kg	0.75	UJ
SSR-SS-B01-211221	8270D	N-Nitrosodi-n-propylamine	0.93	U H	0.93	1.5	mg/Kg	1.5	UJ
SSR-SS-B01-211221	8270D	N-Nitrosodiphenylamine	0.89	U H	0.89	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Pentachlorophenol	12	U H	12	15	mg/Kg	15	UJ
SSR-SS-B01-211221	8270D	Phenanthrene	0.75	H	0.11	0.75	mg/Kg	0.75	J-
SSR-SS-B01-211221	8270D	Phenol	1.7	U H	1.7	3.8	mg/Kg	3.8	UJ
SSR-SS-B01-211221	8270D	Pyrene	2.1	H	0.15	0.75	mg/Kg	2.1	J-
SSR-SS-B02-211221	8270D	1,2,4-Trichlorobenzene	0.83	U H	0.83	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	1,2-Dichlorobenzene	0.92	U H	0.92	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	1,3-Dichlorobenzene	0.87	U H	0.87	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	1,4-Dichlorobenzene	0.99	U H	0.99	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	2,2'-oxybis[1-chloropropane]	0.89	U H	0.89	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	2,4,5-Trichlorophenol	1.8	U H	1.8	7.7	mg/Kg	7.7	UJ
SSR-SS-B02-211221	8270D	2,4,6-Trichlorophenol	2.6	U H	2.6	7.7	mg/Kg	7.7	UJ
SSR-SS-B02-211221	8270D	2,4-Dichlorophenol	1.8	U H	1.8	7.7	mg/Kg	7.7	UJ
SSR-SS-B02-211221	8270D	2,4-Dimethylphenol	2.9	U H	2.9	7.7	mg/Kg	7.7	UJ
SSR-SS-B02-211221	8270D	2,4-Dinitrophenol	14	U H	14	16	mg/Kg	16	UJ
SSR-SS-B02-211221	8270D	2,4-Dinitrotoluene	1.2	U H	1.2	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	2,6-Dinitrotoluene	1.5	U H	1.5	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	2-Chloronaphthalene	0.85	U H	0.85	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	2-Chlorophenol	1.3	U H	1.3	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	2-Methylnaphthalene	0.14	U H	0.14	1.6	mg/Kg	1.6	UJ
SSR-SS-B02-211221	8270D	2-Methylphenol	1.2	U H	1.2	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	2-Nitroaniline	1	U H	1	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	2-Nitrophenol	1.8	U H	1.8	7.7	mg/Kg	7.7	UJ
SSR-SS-B02-211221	8270D	3 & 4 Methylphenol	1.3	U H	1.3	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	3,3'-Dichlorobenzidine	1.1	U H *+	1.1	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	3-Nitroaniline	2.4	U H	2.4	7.7	mg/Kg	7.7	UJ
SSR-SS-B02-211221	8270D	4,6-Dinitro-2-methylphenol	6.2	U H	6.2	16	mg/Kg	16	UJ
SSR-SS-B02-211221	8270D	4-Bromophenyl phenyl ether	1	U H	1	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	4-Chloro-3-methylphenol	2.6	U H	2.6	7.7	mg/Kg	7.7	UJ
SSR-SS-B02-211221	8270D	4-Chloroaniline	3.6	U H	3.6	16	mg/Kg	16	UJ
SSR-SS-B02-211221	8270D	4-Chlorophenyl phenyl ether	0.9	U H	0.9	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	4-Nitroaniline	3.2	U H	3.2	7.7	mg/Kg	7.7	UJ
SSR-SS-B02-211221	8270D	4-Nitrophenol	7.3	U H	7.3	16	mg/Kg	16	UJ
SSR-SS-B02-211221	8270D	Acenaphthene	0.14	U H	0.14	0.77	mg/Kg	0.77	UJ
SSR-SS-B02-211221	8270D	Acenaphthylene	0.1	U H	0.1	0.77	mg/Kg	0.77	UJ
SSR-SS-B02-211221	8270D	Anthracene	0.34	J H	0.13	0.77	mg/Kg	0.34	J-
SSR-SS-B02-211221	8270D	Benzo[a]anthracene	1.3	H	0.1	0.77	mg/Kg	1.3	J-
SSR-SS-B02-211221	8270D	Benzo[a]pyrene	1.3	H *3	0.15	0.77	mg/Kg	1.3	U
SSR-SS-B02-211221	8270D	Benzo[b]fluoranthene	3	H *3	0.17	0.77	mg/Kg	3.0	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-B02-211221	8270D	Benzo[g,h,i]perylene	0.41	J H *3	0.25	0.77	mg/Kg	0.41	J
SSR-SS-B02-211221	8270D	Benzo[k]fluoranthene	1.1	H *3	0.23	0.77	mg/Kg	1.1	J
SSR-SS-B02-211221	8270D	Bis(2-chloroethoxy)methane	0.79	U H	0.79	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Bis(2-chloroethyl)ether	1.2	U H	1.2	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Bis(2-ethylhexyl) phthalate	6.3	H	1.4	3.9	mg/Kg	6.3	J-
SSR-SS-B02-211221	8270D	Butyl benzyl phthalate	1.5	U H	1.5	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Carbazole	1.9	U H *+	1.9	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Chrysene	1.9	H	0.21	0.77	mg/Kg	1.9	J-
SSR-SS-B02-211221	8270D	Dibenz(a,h)anthracene	0.15	U H *3	0.15	0.77	mg/Kg	0.77	UJ
SSR-SS-B02-211221	8270D	Dibenzofuran	0.9	U H	0.9	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Diethyl phthalate	1.3	U H	1.3	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Dimethyl phthalate	1	U H	1	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Di-n-butyl phthalate	1.2	U H	1.2	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Di-n-octyl phthalate	1.3	U H	1.3	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Fluoranthene	2.8	H	0.14	0.77	mg/Kg	2.8	J-
SSR-SS-B02-211221	8270D	Fluorene	0.11	U H	0.11	0.77	mg/Kg	0.77	UJ
SSR-SS-B02-211221	8270D	Hexachlorobenzene	0.18	U H	0.18	1.6	mg/Kg	1.6	UJ
SSR-SS-B02-211221	8270D	Hexachlorobutadiene	1.2	U H	1.2	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Hexachlorocyclopentadiene	4.4	U H	4.4	16	mg/Kg	16	UJ
SSR-SS-B02-211221	8270D	Hexachloroethane	1.2	U H	1.2	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Indeno[1,2,3-cd]pyrene	0.44	J H *3	0.2	0.77	mg/Kg	0.44	J
SSR-SS-B02-211221	8270D	Isophorone	0.87	U H	0.87	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Naphthalene	0.12	U H	0.12	0.77	mg/Kg	0.77	UJ
SSR-SS-B02-211221	8270D	Nitrobenzene	0.19	U H	0.19	0.77	mg/Kg	0.77	UJ
SSR-SS-B02-211221	8270D	N-Nitrosodi-n-propylamine	0.94	U H	0.94	1.6	mg/Kg	1.6	UJ
SSR-SS-B02-211221	8270D	N-Nitrosodiphenylamine	0.91	U H	0.91	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Pentachlorophenol	12	U H	12	16	mg/Kg	16	UJ
SSR-SS-B02-211221	8270D	Phenanthrene	0.92	H	0.11	0.77	mg/Kg	0.92	J-
SSR-SS-B02-211221	8270D	Phenol	1.7	U H	1.7	3.9	mg/Kg	3.9	UJ
SSR-SS-B02-211221	8270D	Pyrene	4.7	H	0.15	0.77	mg/Kg	4.7	J-
SSR-SS-C01-211221	8270D	1,2,4-Trichlorobenzene	0.83	U H	0.83	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	1,2-Dichlorobenzene	0.92	U H	0.92	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	1,3-Dichlorobenzene	0.87	U H	0.87	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	1,4-Dichlorobenzene	0.99	U H	0.99	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	2,2'-oxybis[1-chloropropane]	0.89	U H	0.89	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	2,4,5-Trichlorophenol	1.8	U H	1.8	7.6	mg/Kg	7.6	UJ
SSR-SS-C01-211221	8270D	2,4,6-Trichlorophenol	2.6	U H	2.6	7.6	mg/Kg	7.6	UJ
SSR-SS-C01-211221	8270D	2,4-Dichlorophenol	1.8	U H	1.8	7.6	mg/Kg	7.6	UJ
SSR-SS-C01-211221	8270D	2,4-Dimethylphenol	2.9	U H	2.9	7.6	mg/Kg	7.6	UJ
SSR-SS-C01-211221	8270D	2,4-Dinitrophenol	14	U H	14	16	mg/Kg	16	UJ
SSR-SS-C01-211221	8270D	2,4-Dinitrotoluene	1.2	U H	1.2	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	2,6-Dinitrotoluene	1.5	U H	1.5	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	2-Chloronaphthalene	0.85	U H	0.85	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	2-Chlorophenol	1.3	U H	1.3	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	2-Methylnaphthalene	0.14	U H	0.14	1.6	mg/Kg	1.6	UJ
SSR-SS-C01-211221	8270D	2-Methylphenol	1.2	U H	1.2	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	2-Nitroaniline	1	U H	1	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	2-Nitrophenol	1.8	U H	1.8	7.6	mg/Kg	7.6	UJ
SSR-SS-C01-211221	8270D	3 & 4 Methylphenol	1.3	U H	1.3	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	3,3'-Dichlorobenzidine	1.1	U H *+	1.1	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	3-Nitroaniline	2.4	U H	2.4	7.6	mg/Kg	7.6	UJ
SSR-SS-C01-211221	8270D	4,6-Dinitro-2-methylphenol	6.2	U H	6.2	16	mg/Kg	16	UJ
SSR-SS-C01-211221	8270D	4-Bromophenyl phenyl ether	1	U H	1	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	4-Chloro-3-methylphenol	2.6	U H	2.6	7.6	mg/Kg	7.6	UJ
SSR-SS-C01-211221	8270D	4-Chloroaniline	3.6	U H	3.6	16	mg/Kg	16	UJ
SSR-SS-C01-211221	8270D	4-Chlorophenyl phenyl ether	0.9	U H	0.9	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	4-Nitroaniline	3.2	U H	3.2	7.6	mg/Kg	7.6	UJ
SSR-SS-C01-211221	8270D	4-Nitrophenol	7.3	U H	7.3	16	mg/Kg	16	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-C01-211221	8270D	Acenaphthene	0.14	U H	0.14	0.76	mg/Kg	0.76	UJ
SSR-SS-C01-211221	8270D	Acenaphthylene	0.1	U H	0.1	0.76	mg/Kg	0.76	UJ
SSR-SS-C01-211221	8270D	Anthracene	0.4	J H	0.13	0.76	mg/Kg	0.40	J-
SSR-SS-C01-211221	8270D	Benzo[a]anthracene	1.7	H	0.1	0.76	mg/Kg	1.7	J-
SSR-SS-C01-211221	8270D	Benzo[a]pyrene	1.7	H *3	0.15	0.76	mg/Kg	1.7	J
SSR-SS-C01-211221	8270D	Benzo[b]fluoranthene	3.9	H *3	0.17	0.76	mg/Kg	3.9	J
SSR-SS-C01-211221	8270D	Benzo[g,h,i]perylene	0.51	J H *3	0.25	0.76	mg/Kg	0.51	J
SSR-SS-C01-211221	8270D	Benzo[k]fluoranthene	1.1	H *3	0.23	0.76	mg/Kg	1.1	J
SSR-SS-C01-211221	8270D	Bis(2-chloroethoxy)methane	0.79	U H	0.79	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Bis(2-chloroethyl)ether	1.2	U H	1.2	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Bis(2-ethylhexyl) phthalate	10	H	1.4	3.9	mg/Kg	10	J-
SSR-SS-C01-211221	8270D	Butyl benzyl phthalate	1.5	U H	1.5	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Carbazole	1.9	U H *+	1.9	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Chrysene	2.3	H	0.21	0.76	mg/Kg	2.3	J-
SSR-SS-C01-211221	8270D	Dibenz(a,h)anthracene	0.15	U H *3	0.15	0.76	mg/Kg	0.76	UJ
SSR-SS-C01-211221	8270D	Dibenzofuran	0.9	U H	0.9	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Diethyl phthalate	1.3	U H	1.3	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Dimethyl phthalate	1	U H	1	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Di-n-butyl phthalate	1.2	U H	1.2	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Di-n-octyl phthalate	1.3	U H	1.3	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Fluoranthene	2.8	H	0.14	0.76	mg/Kg	2.8	J-
SSR-SS-C01-211221	8270D	Fluorene	0.12	J H	0.11	0.76	mg/Kg	0.12	J-
SSR-SS-C01-211221	8270D	Hexachlorobenzene	0.18	U H	0.18	1.6	mg/Kg	1.6	UJ
SSR-SS-C01-211221	8270D	Hexachlorobutadiene	1.2	U H	1.2	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Hexachlorocyclopentadiene	4.4	U H	4.4	16	mg/Kg	16	UJ
SSR-SS-C01-211221	8270D	Hexachloroethane	1.2	U H	1.2	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Indeno[1,2,3-cd]pyrene	0.51	J H *3	0.2	0.76	mg/Kg	0.51	J
SSR-SS-C01-211221	8270D	Isophorone	0.86	U H	0.86	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Naphthalene	0.12	U H	0.12	0.76	mg/Kg	0.76	UJ
SSR-SS-C01-211221	8270D	Nitrobenzene	0.19	U H	0.19	0.76	mg/Kg	0.76	UJ
SSR-SS-C01-211221	8270D	N-Nitrosodi-n-propylamine	0.94	U H	0.94	1.6	mg/Kg	1.6	UJ
SSR-SS-C01-211221	8270D	N-Nitrosodiphenylamine	0.91	U H	0.91	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Pentachlorophenol	12	U H	12	16	mg/Kg	16	UJ
SSR-SS-C01-211221	8270D	Phenanthrene	1.2	H	0.11	0.76	mg/Kg	1.2	J-
SSR-SS-C01-211221	8270D	Phenol	1.7	U H	1.7	3.9	mg/Kg	3.9	UJ
SSR-SS-C01-211221	8270D	Pyrene	4.1	H	0.15	0.76	mg/Kg	4.1	J-
SSR-ST-A03-211221	8270D	1,2,4-Trichlorobenzene	0.38	U H	0.38	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	1,2-Dichlorobenzene	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	1,3-Dichlorobenzene	0.4	U H	0.4	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	1,4-Dichlorobenzene	0.45	U H	0.45	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	2,2'-oxybis[1-chloropropane]	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	2,4,5-Trichlorophenol	0.81	U H	0.81	3.5	mg/Kg	3.5	UJ
SSR-ST-A03-211221	8270D	2,4,6-Trichlorophenol	1.2	U H	1.2	3.5	mg/Kg	3.5	UJ
SSR-ST-A03-211221	8270D	2,4-Dichlorophenol	0.84	U H	0.84	3.5	mg/Kg	3.5	UJ
SSR-ST-A03-211221	8270D	2,4-Dimethylphenol	1.3	U H	1.3	3.5	mg/Kg	3.5	UJ
SSR-ST-A03-211221	8270D	2,4-Dinitrophenol	6.2	U H	6.2	7.1	mg/Kg	7.1	UJ
SSR-ST-A03-211221	8270D	2,4-Dinitrotoluene	0.56	U H	0.56	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	2,6-Dinitrotoluene	0.69	U H	0.69	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	2-Chloronaphthalene	0.39	U H	0.39	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	2-Chlorophenol	0.6	U H	0.6	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	2-Methylnaphthalene	0.22	J H	0.065	0.71	mg/Kg	0.22	J-
SSR-ST-A03-211221	8270D	2-Methylphenol	6.8	H	0.57	1.8	mg/Kg	6.8	J-
SSR-ST-A03-211221	8270D	2-Nitroaniline	0.48	U H	0.48	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	2-Nitrophenol	0.83	U H	0.83	3.5	mg/Kg	3.5	UJ
SSR-ST-A03-211221	8270D	3 & 4 Methylphenol	0.59	U H	0.59	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	3,3'-Dichlorobenzidine	0.49	U H *+	0.49	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	3-Nitroaniline	1.1	U H	1.1	3.5	mg/Kg	3.5	UJ
SSR-ST-A03-211221	8270D	4,6-Dinitro-2-methylphenol	2.8	U H	2.8	7.1	mg/Kg	7.1	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-A03-211221	8270D	4-Bromophenyl phenyl ether	0.47	U H	0.47	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	4-Chloro-3-methylphenol	1.2	U H	1.2	3.5	mg/Kg	3.5	UJ
SSR-ST-A03-211221	8270D	4-Chloroaniline	1.7	U H	1.7	7.1	mg/Kg	7.1	UJ
SSR-ST-A03-211221	8270D	4-Chlorophenyl phenyl ether	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	4-Nitroaniline	1.5	U H	1.5	3.5	mg/Kg	3.5	UJ
SSR-ST-A03-211221	8270D	4-Nitrophenol	3.4	U H	3.4	7.1	mg/Kg	7.1	UJ
SSR-ST-A03-211221	8270D	Acenaphthene	0.13	J H	0.063	0.35	mg/Kg	0.13	J-
SSR-ST-A03-211221	8270D	Acenaphthylene	0.063	J H	0.047	0.35	mg/Kg	0.063	J-
SSR-ST-A03-211221	8270D	Anthracene	0.31	J H	0.059	0.35	mg/Kg	0.31	J-
SSR-ST-A03-211221	8270D	Benzo[a]anthracene	1	H	0.048	0.35	mg/Kg	1.0	J-
SSR-ST-A03-211221	8270D	Benzo[a]pyrene	1.3	H *3	0.068	0.35	mg/Kg	1.3	J
SSR-ST-A03-211221	8270D	Benzo[b]fluoranthene	2.4	H *3	0.076	0.35	mg/Kg	2.4	J
SSR-ST-A03-211221	8270D	Benzo[g,h,i]perylene	0.44	H *3	0.11	0.35	mg/Kg	0.44	J
SSR-ST-A03-211221	8270D	Benzo[k]fluoranthene	0.95	H *3	0.1	0.35	mg/Kg	0.95	J
SSR-ST-A03-211221	8270D	Bis(2-chloroethoxy)methane	0.36	U H	0.36	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Bis(2-chloroethyl)ether	0.53	U H	0.53	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Bis(2-ethylhexyl) phthalate	5.5	H	0.65	1.8	mg/Kg	5.5	J-
SSR-ST-A03-211221	8270D	Butyl benzyl phthalate	0.67	U H	0.67	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Carbazole	0.88	U H *+	0.88	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Chrysene	1.3	H	0.096	0.35	mg/Kg	1.3	J-
SSR-ST-A03-211221	8270D	Dibenz(a,h)anthracene	0.089	J H *3	0.068	0.35	mg/Kg	0.35	U
SSR-ST-A03-211221	8270D	Dibenzofuran	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Diethyl phthalate	0.6	U H	0.6	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Dimethyl phthalate	0.46	U H	0.46	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Di-n-butyl phthalate	2	H	0.54	1.8	mg/Kg	2.0	J-
SSR-ST-A03-211221	8270D	Di-n-octyl phthalate	0.58	U H	0.58	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Fluoranthene	2.3	H	0.066	0.35	mg/Kg	2.3	J-
SSR-ST-A03-211221	8270D	Fluorene	0.13	J H	0.05	0.35	mg/Kg	0.13	J-
SSR-ST-A03-211221	8270D	Hexachlorobenzene	0.082	U H	0.082	0.71	mg/Kg	0.71	UJ
SSR-ST-A03-211221	8270D	Hexachlorobutadiene	0.56	U H	0.56	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Hexachlorocyclopentadiene	2	U H	2	7.1	mg/Kg	7.1	UJ
SSR-ST-A03-211221	8270D	Hexachloroethane	0.54	U H	0.54	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Indeno[1,2,3-cd]pyrene	0.4	H *3	0.092	0.35	mg/Kg	0.40	J
SSR-ST-A03-211221	8270D	Isophorone	0.4	U H	0.4	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Naphthalene	0.19	J H	0.054	0.35	mg/Kg	0.19	J-
SSR-ST-A03-211221	8270D	Nitrobenzene	0.088	U H	0.088	0.35	mg/Kg	0.35	UJ
SSR-ST-A03-211221	8270D	N-Nitrosodi-n-propylamine	0.43	U H	0.43	0.71	mg/Kg	0.71	UJ
SSR-ST-A03-211221	8270D	N-Nitrosodiphenylamine	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Pentachlorophenol	5.7	U H	5.7	7.1	mg/Kg	7.1	UJ
SSR-ST-A03-211221	8270D	Phenanthrene	1.3	H	0.049	0.35	mg/Kg	1.3	J-
SSR-ST-A03-211221	8270D	Phenol	0.78	U H	0.78	1.8	mg/Kg	1.8	UJ
SSR-ST-A03-211221	8270D	Pyrene	3	H	0.07	0.35	mg/Kg	3.0	J-
SSR-ST-B00-211221	8270D	1,2,4-Trichlorobenzene	0.072	U H	0.072	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	1,2-Dichlorobenzene	0.08	U H	0.08	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	1,3-Dichlorobenzene	0.076	U H	0.076	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	1,4-Dichlorobenzene	0.086	U H	0.086	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	2,2'-oxybis[1-chloropropane]	0.078	U H	0.078	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	2,4,5-Trichlorophenol	0.15	U H	0.15	0.67	mg/Kg	0.67	UJ
SSR-ST-B00-211221	8270D	2,4,6-Trichlorophenol	0.23	U H	0.23	0.67	mg/Kg	0.67	UJ
SSR-ST-B00-211221	8270D	2,4-Dichlorophenol	0.16	U H	0.16	0.67	mg/Kg	0.67	UJ
SSR-ST-B00-211221	8270D	2,4-Dimethylphenol	0.25	U H	0.25	0.67	mg/Kg	0.67	UJ
SSR-ST-B00-211221	8270D	2,4-Dinitrophenol	1.2	U H	1.2	1.4	mg/Kg	1.4	UJ
SSR-ST-B00-211221	8270D	2,4-Dinitrotoluene	0.11	U H	0.11	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	2,6-Dinitrotoluene	0.13	U H	0.13	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	2-Chloronaphthalene	0.074	U H	0.074	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	2-Chlorophenol	0.11	U H	0.11	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	2-Methylnaphthalene	0.012	U H	0.012	0.14	mg/Kg	0.14	UJ
SSR-ST-B00-211221	8270D	2-Methylphenol	0.11	U H	0.11	0.34	mg/Kg	0.34	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-B00-211221	8270D	2-Nitroaniline	0.09	U H	0.09	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	2-Nitrophenol	0.16	U H	0.16	0.67	mg/Kg	0.67	UJ
SSR-ST-B00-211221	8270D	3 & 4 Methylphenol	0.11	U H	0.11	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	3,3'-Dichlorobenzidine	0.094	U H *+	0.094	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	3-Nitroaniline	0.21	U H	0.21	0.67	mg/Kg	0.67	UJ
SSR-ST-B00-211221	8270D	4,6-Dinitro-2-methylphenol	0.54	U H	0.54	1.4	mg/Kg	1.4	UJ
SSR-ST-B00-211221	8270D	4-Bromophenyl phenyl ether	0.089	U H	0.089	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	4-Chloro-3-methylphenol	0.23	U H	0.23	0.67	mg/Kg	0.67	UJ
SSR-ST-B00-211221	8270D	4-Chloroaniline	0.32	U H	0.32	1.4	mg/Kg	1.4	UJ
SSR-ST-B00-211221	8270D	4-Chlorophenyl phenyl ether	0.078	U H	0.078	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	4-Nitroaniline	0.28	U H	0.28	0.67	mg/Kg	0.67	UJ
SSR-ST-B00-211221	8270D	4-Nitrophenol	0.64	U H	0.64	1.4	mg/Kg	1.4	UJ
SSR-ST-B00-211221	8270D	Acenaphthene	0.015	J H	0.012	0.067	mg/Kg	0.015	J-
SSR-ST-B00-211221	8270D	Acenaphthylene	0.0089	U H	0.0089	0.067	mg/Kg	0.067	UJ
SSR-ST-B00-211221	8270D	Anthracene	0.065	J H	0.011	0.067	mg/Kg	0.065	J-
SSR-ST-B00-211221	8270D	Benzo[a]anthracene	0.41	H	0.009	0.067	mg/Kg	0.41	J-
SSR-ST-B00-211221	8270D	Benzo[a]pyrene	0.46	H *3	0.013	0.067	mg/Kg	0.46	J
SSR-ST-B00-211221	8270D	Benzo[b]fluoranthene	0.78	H *3	0.014	0.067	mg/Kg	0.78	J
SSR-ST-B00-211221	8270D	Benzo[g,h,i]perylene	0.15	H *3	0.022	0.067	mg/Kg	0.15	J
SSR-ST-B00-211221	8270D	Benzo[k]fluoranthene	0.29	H *3	0.02	0.067	mg/Kg	0.29	J
SSR-ST-B00-211221	8270D	Bis(2-chloroethoxy)methane	0.069	U H	0.069	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Bis(2-chloroethyl)ether	0.1	U H	0.1	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Bis(2-ethylhexyl) phthalate	0.12	U H	0.12	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Butyl benzyl phthalate	0.13	U H	0.13	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Carbazole	0.17	U H *+	0.17	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Chrysene	0.46	H	0.018	0.067	mg/Kg	0.46	J-
SSR-ST-B00-211221	8270D	Dibenz(a,h)anthracene	0.041	J H *3	0.013	0.067	mg/Kg	0.041	J
SSR-ST-B00-211221	8270D	Dibenzofuran	0.079	U H	0.079	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Diethyl phthalate	0.11	U H	0.11	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Dimethyl phthalate	0.088	U H	0.088	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Di-n-butyl phthalate	0.1	U H	0.1	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Di-n-octyl phthalate	0.11	U H	0.11	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Fluoranthene	0.6	H	0.012	0.067	mg/Kg	0.60	J-
SSR-ST-B00-211221	8270D	Fluorene	0.03	J H	0.0094	0.067	mg/Kg	0.030	J-
SSR-ST-B00-211221	8270D	Hexachlorobenzene	0.016	U H	0.016	0.14	mg/Kg	0.14	UJ
SSR-ST-B00-211221	8270D	Hexachlorobutadiene	0.11	U H	0.11	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Hexachlorocyclopentadiene	0.39	U H	0.39	1.4	mg/Kg	1.4	UJ
SSR-ST-B00-211221	8270D	Hexachloroethane	0.1	U H	0.1	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Indeno[1,2,3-cd]pyrene	0.15	H *3	0.017	0.067	mg/Kg	0.15	J
SSR-ST-B00-211221	8270D	Isophorone	0.075	U H	0.075	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Naphthalene	0.013	J H	0.01	0.067	mg/Kg	0.013	J-
SSR-ST-B00-211221	8270D	Nitrobenzene	0.017	U H	0.017	0.067	mg/Kg	0.067	UJ
SSR-ST-B00-211221	8270D	N-Nitrosodi-n-propylamine	0.082	U H	0.082	0.14	mg/Kg	0.14	UJ
SSR-ST-B00-211221	8270D	N-Nitrosodiphenylamine	0.079	U H	0.079	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Pentachlorophenol	1.1	U H	1.1	1.4	mg/Kg	1.4	UJ
SSR-ST-B00-211221	8270D	Phenanthrene	0.32	H	0.0094	0.067	mg/Kg	0.32	J-
SSR-ST-B00-211221	8270D	Phenol	0.15	U H	0.15	0.34	mg/Kg	0.34	UJ
SSR-ST-B00-211221	8270D	Pyrene	0.74	H	0.013	0.067	mg/Kg	0.74	J-
SSR-ST-B03-211221	8270D	1,2,4-Trichlorobenzene	0.75	U H	0.75	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	1,2-Dichlorobenzene	0.83	U H	0.83	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	1,3-Dichlorobenzene	0.79	U H	0.79	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	1,4-Dichlorobenzene	0.89	U H	0.89	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	2,2'-oxybis[1-chloropropane]	0.81	U H	0.81	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	2,4,5-Trichlorophenol	1.6	U H	1.6	6.9	mg/Kg	6.9	UJ
SSR-ST-B03-211221	8270D	2,4,6-Trichlorophenol	2.4	U H	2.4	6.9	mg/Kg	6.9	UJ
SSR-ST-B03-211221	8270D	2,4-Dichlorophenol	1.7	U H	1.7	6.9	mg/Kg	6.9	UJ
SSR-ST-B03-211221	8270D	2,4-Dimethylphenol	2.6	U H	2.6	6.9	mg/Kg	6.9	UJ
SSR-ST-B03-211221	8270D	2,4-Dinitrophenol	12	U H	12	14	mg/Kg	14	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-B03-211221	8270D	2,4-Dinitrotoluene	1.1	U H	1.1	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	2,6-Dinitrotoluene	1.4	U H	1.4	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	2-Chloronaphthalene	0.77	U H	0.77	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	2-Chlorophenol	1.2	U H	1.2	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	2-Methylnaphthalene	0.35	J H	0.13	1.4	mg/Kg	0.35	J-
SSR-ST-B03-211221	8270D	2-Methylphenol	1.1	U H	1.1	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	2-Nitroaniline	0.94	U H	0.94	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	2-Nitrophenol	1.6	U H	1.6	6.9	mg/Kg	6.9	UJ
SSR-ST-B03-211221	8270D	3 & 4 Methylphenol	1.2	U H	1.2	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	3,3'-Dichlorobenzidine	0.98	U H *3 *+	0.98	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	3-Nitroaniline	2.2	U H	2.2	6.9	mg/Kg	6.9	UJ
SSR-ST-B03-211221	8270D	4,6-Dinitro-2-methylphenol	5.6	U H	5.6	14	mg/Kg	14	UJ
SSR-ST-B03-211221	8270D	4-Bromophenyl phenyl ether	0.92	U H	0.92	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	4-Chloro-3-methylphenol	2.4	U H	2.4	6.9	mg/Kg	6.9	UJ
SSR-ST-B03-211221	8270D	4-Chloroaniline	3.3	U H	3.3	14	mg/Kg	14	UJ
SSR-ST-B03-211221	8270D	4-Chlorophenyl phenyl ether	0.81	U H	0.81	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	4-Nitroaniline	2.9	U H	2.9	6.9	mg/Kg	6.9	UJ
SSR-ST-B03-211221	8270D	4-Nitrophenol	6.6	U H	6.6	14	mg/Kg	14	UJ
SSR-ST-B03-211221	8270D	Acenaphthene	0.3	J H	0.13	0.69	mg/Kg	0.30	J-
SSR-ST-B03-211221	8270D	Acenaphthylene	0.27	J H	0.092	0.69	mg/Kg	0.27	J-
SSR-ST-B03-211221	8270D	Anthracene	0.78	H	0.12	0.69	mg/Kg	0.78	J-
SSR-ST-B03-211221	8270D	Benzo[a]anthracene	2	H *3	0.094	0.69	mg/Kg	2.0	J
SSR-ST-B03-211221	8270D	Benzo[a]pyrene	1.8	H *3	0.34	1.7	mg/Kg	1.8	U
SSR-ST-B03-211221	8270D	Benzo[b]fluoranthene	3	H *3	0.38	1.7	mg/Kg	3.0	UJ
SSR-ST-B03-211221	8270D	Benzo[g,h,i]perylene	0.78	J H *3	0.56	1.7	mg/Kg	0.78	J
SSR-ST-B03-211221	8270D	Benzo[k]fluoranthene	1.1	J H *3	0.51	1.7	mg/Kg	1.7	UJ
SSR-ST-B03-211221	8270D	Bis(2-chloroethoxy)methane	0.71	U H	0.71	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Bis(2-chloroethyl)ether	1	U H	1	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Bis(2-ethylhexyl) phthalate	10	H *3	1.3	3.5	mg/Kg	10	J
SSR-ST-B03-211221	8270D	Butyl benzyl phthalate	1.3	U H *3	1.3	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Carbazole	1.7	U H *+	1.7	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Chrysene	2.3	H *3	0.19	0.69	mg/Kg	2.3	J
SSR-ST-B03-211221	8270D	Dibenz(a,h)anthracene	0.34	U H *3	0.34	1.7	mg/Kg	1.7	UJ
SSR-ST-B03-211221	8270D	Dibenzofuran	0.82	U H	0.82	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Diethyl phthalate	1.2	U H	1.2	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Dimethyl phthalate	0.91	U H	0.91	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Di-n-butyl phthalate	1.1	U H	1.1	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Di-n-octyl phthalate	1.1	U H	1.1	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Fluoranthene	4.1	H	0.13	0.69	mg/Kg	4.1	J-
SSR-ST-B03-211221	8270D	Fluorene	0.34	J H	0.098	0.69	mg/Kg	0.34	J-
SSR-ST-B03-211221	8270D	Hexachlorobenzene	0.16	U H	0.16	1.4	mg/Kg	1.4	UJ
SSR-ST-B03-211221	8270D	Hexachlorobutadiene	1.1	U H	1.1	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Hexachlorocyclopentadiene	4	U H	4	14	mg/Kg	14	UJ
SSR-ST-B03-211221	8270D	Hexachloroethane	1.1	U H	1.1	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Indeno[1,2,3-cd]pyrene	0.8	J H *3	0.45	1.7	mg/Kg	1.7	UJ
SSR-ST-B03-211221	8270D	Isophorone	0.78	U H	0.78	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Naphthalene	0.17	J H	0.11	0.69	mg/Kg	0.17	J-
SSR-ST-B03-211221	8270D	Nitrobenzene	0.17	U H	0.17	0.69	mg/Kg	0.69	UJ
SSR-ST-B03-211221	8270D	N-Nitrosodi-n-propylamine	0.85	U H	0.85	1.4	mg/Kg	1.4	UJ
SSR-ST-B03-211221	8270D	N-Nitrosodiphenylamine	0.82	U H	0.82	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Pentachlorophenol	11	U H	11	14	mg/Kg	14	UJ
SSR-ST-B03-211221	8270D	Phenanthrene	1.7	H	0.097	0.69	mg/Kg	1.7	J-
SSR-ST-B03-211221	8270D	Phenol	1.5	U H	1.5	3.5	mg/Kg	3.5	UJ
SSR-ST-B03-211221	8270D	Pyrene	8.5	H *3	0.14	0.69	mg/Kg	8.5	J
SSR-ST-B04-211221	8270D	1,2,4-Trichlorobenzene	0.73	U H	0.73	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	1,2-Dichlorobenzene	0.81	U H	0.81	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	1,3-Dichlorobenzene	0.77	U H	0.77	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	1,4-Dichlorobenzene	0.87	U H	0.87	3.4	mg/Kg	3.4	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-B04-211221	8270D	2,2'-oxybis[1-chloropropane]	0.79	U H	0.79	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	2,4,5-Trichlorophenol	1.6	U H	1.6	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221	8270D	2,4,6-Trichlorophenol	2.3	U H	2.3	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221	8270D	2,4-Dichlorophenol	1.6	U H	1.6	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221	8270D	2,4-Dimethylphenol	2.6	U H	2.6	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221	8270D	2,4-Dinitrophenol	12	U H	12	14	mg/Kg	14	UJ
SSR-ST-B04-211221	8270D	2,4-Dinitrotoluene	1.1	U H	1.1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	2,6-Dinitrotoluene	1.3	U H	1.3	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	2-Chloronaphthalene	0.75	U H	0.75	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	2-Chlorophenol	1.2	U H	1.2	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	2-Methylnaphthalene	0.13	U H	0.13	1.4	mg/Kg	1.4	UJ
SSR-ST-B04-211221	8270D	2-Methylphenol	1.1	U H	1.1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	2-Nitroaniline	0.92	U H	0.92	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	2-Nitrophenol	1.6	U H	1.6	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221	8270D	3 & 4 Methylphenol	1.1	U H	1.1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	3,3'-Dichlorobenzidine	0.95	U H *3 *+	0.95	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	3-Nitroaniline	2.1	U H	2.1	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221	8270D	4,6-Dinitro-2-methylphenol	5.5	U H	5.5	14	mg/Kg	14	UJ
SSR-ST-B04-211221	8270D	4-Bromophenyl phenyl ether	0.9	U H	0.9	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	4-Chloro-3-methylphenol	2.3	U H	2.3	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221	8270D	4-Chloroaniline	3.2	U H	3.2	14	mg/Kg	14	UJ
SSR-ST-B04-211221	8270D	4-Chlorophenyl phenyl ether	0.8	U H	0.8	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	4-Nitroaniline	2.9	U H	2.9	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221	8270D	4-Nitrophenol	6.5	U H	6.5	14	mg/Kg	14	UJ
SSR-ST-B04-211221	8270D	Acenaphthene	0.12	U H	0.12	0.68	mg/Kg	0.68	UJ
SSR-ST-B04-211221	8270D	Acenaphthylene	0.09	U H	0.09	0.68	mg/Kg	0.68	UJ
SSR-ST-B04-211221	8270D	Anthracene	0.29	J H	0.11	0.68	mg/Kg	0.29	J-
SSR-ST-B04-211221	8270D	Benzo[a]anthracene	0.9	H *3	0.092	0.68	mg/Kg	0.90	J
SSR-ST-B04-211221	8270D	Benzo[a]pyrene	0.62	J H *3	0.33	1.7	mg/Kg	1.7	U
SSR-ST-B04-211221	8270D	Benzo[b]fluoranthene	1	J H *3	0.37	1.7	mg/Kg	1.7	UJ
SSR-ST-B04-211221	8270D	Benzo[g,h,i]perylene	0.55	U H *3	0.55	1.7	mg/Kg	1.7	UJ
SSR-ST-B04-211221	8270D	Benzo[k]fluoranthene	0.5	U H *3	0.5	1.7	mg/Kg	1.7	UJ
SSR-ST-B04-211221	8270D	Bis(2-chloroethoxy)methane	0.7	U H	0.7	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	Bis(2-chloroethyl)ether	1	U H	1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	Bis(2-ethylhexyl) phthalate	24	H *3	1.2	3.4	mg/Kg	24	J
SSR-ST-B04-211221	8270D	Butyl benzyl phthalate	1.3	U H *3	1.3	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	Carbazole	1.7	U H *+	1.7	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	Chrysene	1.1	H *3	0.19	0.68	mg/Kg	1.1	J
SSR-ST-B04-211221	8270D	Dibenz(a,h)anthracene	0.33	U H *3	0.33	1.7	mg/Kg	1.7	UJ
SSR-ST-B04-211221	8270D	Dibenzofuran	0.8	U H	0.8	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	Diethyl phthalate	1.2	U H	1.2	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	Dimethyl phthalate	4.6	H	0.89	3.4	mg/Kg	4.6	J-
SSR-ST-B04-211221	8270D	Di-n-butyl phthalate	2	J H	1	3.4	mg/Kg	2.0	J-
SSR-ST-B04-211221	8270D	Di-n-octyl phthalate	1.1	U H	1.1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	Fluoranthene	1.8	H	0.13	0.68	mg/Kg	1.8	J-
SSR-ST-B04-211221	8270D	Fluorene	0.17	J H	0.096	0.68	mg/Kg	0.17	J-
SSR-ST-B04-211221	8270D	Hexachlorobenzene	0.16	U H	0.16	1.4	mg/Kg	1.4	UJ
SSR-ST-B04-211221	8270D	Hexachlorobutadiene	1.1	U H	1.1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	Hexachlorocyclopentadiene	3.9	U H	3.9	14	mg/Kg	14	UJ
SSR-ST-B04-211221	8270D	Hexachloroethane	1	U H	1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	Indeno[1,2,3-cd]pyrene	0.44	U H *3	0.44	1.7	mg/Kg	1.7	UJ
SSR-ST-B04-211221	8270D	Isophorone	0.76	U H	0.76	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	Naphthalene	0.14	J H	0.1	0.68	mg/Kg	0.14	J-
SSR-ST-B04-211221	8270D	Nitrobenzene	0.17	U H	0.17	0.68	mg/Kg	0.68	UJ
SSR-ST-B04-211221	8270D	N-Nitrosodi-n-propylamine	0.83	U H	0.83	1.4	mg/Kg	1.4	UJ
SSR-ST-B04-211221	8270D	N-Nitrosodiphenylamine	0.8	U H	0.8	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	Pentachlorophenol	11	U H	11	14	mg/Kg	14	UJ
SSR-ST-B04-211221	8270D	Phenanthrene	0.86	H	0.095	0.68	mg/Kg	0.86	J-

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-B04-211221	8270D	Phenol	1.5	U H	1.5	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221	8270D	Pyrene	3.4	H *3	0.14	0.68	mg/Kg	3.4	J
SSR-ST-B04-211221-D	8270D	1,2,4-Trichlorobenzene	0.73	U H	0.73	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	1,2-Dichlorobenzene	0.81	U H	0.81	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	1,3-Dichlorobenzene	0.77	U H	0.77	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	1,4-Dichlorobenzene	0.87	U H	0.87	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	2,2'-oxybis[1-chloropropane]	0.79	U H	0.79	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	2,4,5-Trichlorophenol	1.6	U H	1.6	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221-D	8270D	2,4,6-Trichlorophenol	2.3	U H	2.3	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221-D	8270D	2,4-Dichlorophenol	1.6	U H	1.6	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221-D	8270D	2,4-Dimethylphenol	2.6	U H	2.6	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221-D	8270D	2,4-Dinitrophenol	12	U H	12	14	mg/Kg	14	UJ
SSR-ST-B04-211221-D	8270D	2,4-Dinitrotoluene	1.1	U H	1.1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	2,6-Dinitrotoluene	1.3	U H	1.3	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	2-Chloronaphthalene	0.75	U H	0.75	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	2-Chlorophenol	1.2	U H	1.2	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	2-Methylnaphthalene	0.13	U H	0.13	1.4	mg/Kg	1.4	UJ
SSR-ST-B04-211221-D	8270D	2-Methylphenol	1.1	U H	1.1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	2-Nitroaniline	0.92	U H	0.92	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	2-Nitrophenol	1.6	U H	1.6	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221-D	8270D	3 & 4 Methylphenol	1.1	U H	1.1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	3,3'-Dichlorobenzidine	0.95	U H *+	0.95	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	3-Nitroaniline	2.1	U H	2.1	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221-D	8270D	4,6-Dinitro-2-methylphenol	5.5	U H	5.5	14	mg/Kg	14	UJ
SSR-ST-B04-211221-D	8270D	4-Bromophenyl phenyl ether	0.9	U H	0.9	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	4-Chloro-3-methylphenol	2.3	U H	2.3	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221-D	8270D	4-Chloroaniline	3.2	U H	3.2	14	mg/Kg	14	UJ
SSR-ST-B04-211221-D	8270D	4-Chlorophenyl phenyl ether	0.79	U H	0.79	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	4-Nitroaniline	2.8	U H	2.8	6.8	mg/Kg	6.8	UJ
SSR-ST-B04-211221-D	8270D	4-Nitrophenol	6.5	U H	6.5	14	mg/Kg	14	UJ
SSR-ST-B04-211221-D	8270D	Acenaphthene	0.13	J H	0.12	0.68	mg/Kg	0.13	J-
SSR-ST-B04-211221-D	8270D	Acenaphthylene	0.09	U H	0.09	0.68	mg/Kg	0.68	UJ
SSR-ST-B04-211221-D	8270D	Anthracene	0.33	J H	0.11	0.68	mg/Kg	0.33	J-
SSR-ST-B04-211221-D	8270D	Benzo[a]anthracene	1.2	H	0.092	0.68	mg/Kg	1.2	J-
SSR-ST-B04-211221-D	8270D	Benzo[a]pyrene	1.2	H *3	0.13	0.68	mg/Kg	1.2	U
SSR-ST-B04-211221-D	8270D	Benzo[b]fluoranthene	2	H *3	0.15	0.68	mg/Kg	2.0	U
SSR-ST-B04-211221-D	8270D	Benzo[g,h,i]perylene	0.37	J H *3	0.22	0.68	mg/Kg	0.37	J
SSR-ST-B04-211221-D	8270D	Benzo[k]fluoranthene	0.99	H *3	0.2	0.68	mg/Kg	0.99	U
SSR-ST-B04-211221-D	8270D	Bis(2-chloroethoxy)methane	0.69	U H	0.69	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	Bis(2-chloroethyl)ether	1	U H	1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	Bis(2-ethylhexyl) phthalate	25	H	1.2	3.4	mg/Kg	25	J-
SSR-ST-B04-211221-D	8270D	Butyl benzyl phthalate	1.3	U H	1.3	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	Carbazole	1.7	U H *+	1.7	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	Chrysene	1.5	H	0.19	0.68	mg/Kg	1.5	J-
SSR-ST-B04-211221-D	8270D	Dibenz(a,h)anthracene	0.13	U H *3	0.13	0.68	mg/Kg	0.68	UJ
SSR-ST-B04-211221-D	8270D	Dibenzofuran	0.8	U H	0.8	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	Diethyl phthalate	1.2	U H	1.2	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	Dimethyl phthalate	0.89	U H	0.89	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	Di-n-butyl phthalate	1.6	J H	1	3.4	mg/Kg	1.6	J-
SSR-ST-B04-211221-D	8270D	Di-n-octyl phthalate	1.1	U H	1.1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	Fluoranthene	2.3	H	0.13	0.68	mg/Kg	2.3	J-
SSR-ST-B04-211221-D	8270D	Fluorene	0.18	J H	0.096	0.68	mg/Kg	0.18	J-
SSR-ST-B04-211221-D	8270D	Hexachlorobenzene	0.16	U H	0.16	1.4	mg/Kg	1.4	UJ
SSR-ST-B04-211221-D	8270D	Hexachlorobutadiene	1.1	U H	1.1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	Hexachlorocyclopentadiene	3.9	U H	3.9	14	mg/Kg	14	UJ
SSR-ST-B04-211221-D	8270D	Hexachloroethane	1	U H	1	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	Indeno[1,2,3-cd]pyrene	0.38	J H *3	0.18	0.68	mg/Kg	0.38	J
SSR-ST-B04-211221-D	8270D	Isophorone	0.76	U H	0.76	3.4	mg/Kg	3.4	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-B04-211221-D	8270D	Naphthalene	0.21	J H	0.1	0.68	mg/Kg	0.21	J-
SSR-ST-B04-211221-D	8270D	Nitrobenzene	0.17	U H	0.17	0.68	mg/Kg	0.68	UJ
SSR-ST-B04-211221-D	8270D	N-Nitrosodi-n-propylamine	0.83	U H	0.83	1.4	mg/Kg	1.4	UJ
SSR-ST-B04-211221-D	8270D	N-Nitrosodiphenylamine	0.8	U H	0.8	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	Pentachlorophenol	11	U H	11	14	mg/Kg	14	UJ
SSR-ST-B04-211221-D	8270D	Phenanthrene	0.96	H	0.095	0.68	mg/Kg	0.96	J-
SSR-ST-B04-211221-D	8270D	Phenol	1.5	U H	1.5	3.4	mg/Kg	3.4	UJ
SSR-ST-B04-211221-D	8270D	Pyrene	3.6	H	0.14	0.68	mg/Kg	3.6	J-
SSR-ST-C02-211221	8270D	1,2,4-Trichlorobenzene	0.19	U H	0.19	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	1,2-Dichlorobenzene	0.22	U H	0.22	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	1,3-Dichlorobenzene	0.2	U H	0.2	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	1,4-Dichlorobenzene	0.23	U H	0.23	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	2,2'-oxybis[1-chloropropane]	0.21	U H	0.21	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	2,4,5-Trichlorophenol	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-C02-211221	8270D	2,4,6-Trichlorophenol	0.62	U H	0.62	1.8	mg/Kg	1.8	UJ
SSR-ST-C02-211221	8270D	2,4-Dichlorophenol	0.43	U H	0.43	1.8	mg/Kg	1.8	UJ
SSR-ST-C02-211221	8270D	2,4-Dimethylphenol	0.68	U H	0.68	1.8	mg/Kg	1.8	UJ
SSR-ST-C02-211221	8270D	2,4-Dinitrophenol	3.2	U H	3.2	3.6	mg/Kg	3.6	UJ
SSR-ST-C02-211221	8270D	2,4-Dinitrotoluene	0.29	U H	0.29	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	2,6-Dinitrotoluene	0.35	U H	0.35	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	2-Chloronaphthalene	0.2	U H	0.2	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	2-Chlorophenol	0.31	U H	0.31	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	2-Methylnaphthalene	0.033	U H	0.033	0.36	mg/Kg	0.36	UJ
SSR-ST-C02-211221	8270D	2-Methylphenol	0.29	U H	0.29	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	2-Nitroaniline	0.24	U H	0.24	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	2-Nitrophenol	0.43	U H	0.43	1.8	mg/Kg	1.8	UJ
SSR-ST-C02-211221	8270D	3 & 4 Methylphenol	0.3	U H	0.3	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	3,3'-Dichlorobenzidine	0.25	U H *+	0.25	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	3-Nitroaniline	0.56	U H	0.56	1.8	mg/Kg	1.8	UJ
SSR-ST-C02-211221	8270D	4,6-Dinitro-2-methylphenol	1.5	U H	1.5	3.6	mg/Kg	3.6	UJ
SSR-ST-C02-211221	8270D	4-Bromophenyl phenyl ether	0.24	U H	0.24	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	4-Chloro-3-methylphenol	0.61	U H	0.61	1.8	mg/Kg	1.8	UJ
SSR-ST-C02-211221	8270D	4-Chloroaniline	0.85	U H	0.85	3.6	mg/Kg	3.6	UJ
SSR-ST-C02-211221	8270D	4-Chlorophenyl phenyl ether	0.21	U H	0.21	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	4-Nitroaniline	0.76	U H	0.76	1.8	mg/Kg	1.8	UJ
SSR-ST-C02-211221	8270D	4-Nitrophenol	1.7	U H	1.7	3.6	mg/Kg	3.6	UJ
SSR-ST-C02-211221	8270D	Acenaphthene	0.032	U H	0.032	0.18	mg/Kg	0.18	UJ
SSR-ST-C02-211221	8270D	Acenaphthylene	0.024	U H	0.024	0.18	mg/Kg	0.18	UJ
SSR-ST-C02-211221	8270D	Anthracene	0.038	J H	0.03	0.18	mg/Kg	0.038	J-
SSR-ST-C02-211221	8270D	Benzo[a]anthracene	0.08	J H	0.024	0.18	mg/Kg	0.080	J-
SSR-ST-C02-211221	8270D	Benzo[a]pyrene	0.035	U H *3	0.035	0.18	mg/Kg	0.18	UJ
SSR-ST-C02-211221	8270D	Benzo[b]fluoranthene	0.039	U H *3	0.039	0.18	mg/Kg	0.18	UJ
SSR-ST-C02-211221	8270D	Benzo[g,h,i]perylene	0.058	U H *3	0.058	0.18	mg/Kg	0.18	UJ
SSR-ST-C02-211221	8270D	Benzo[k]fluoranthene	0.053	U H *3	0.053	0.18	mg/Kg	0.18	UJ
SSR-ST-C02-211221	8270D	Bis(2-chloroethoxy)methane	0.18	U H	0.18	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Bis(2-chloroethyl)ether	0.27	U H	0.27	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Bis(2-ethylhexyl) phthalate	0.33	U H	0.33	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Butyl benzyl phthalate	0.34	U H	0.34	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Carbazole	0.45	U H *+	0.45	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Chrysene	0.11	J H	0.049	0.18	mg/Kg	0.11	J-
SSR-ST-C02-211221	8270D	Dibenz(a,h)anthracene	0.035	U H *3	0.035	0.18	mg/Kg	0.18	UJ
SSR-ST-C02-211221	8270D	Dibenzofuran	0.21	U H	0.21	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Diethyl phthalate	0.31	U H	0.31	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Dimethyl phthalate	0.24	U H	0.24	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Di-n-butyl phthalate	0.28	U H	0.28	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Di-n-octyl phthalate	0.29	U H	0.29	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Fluoranthene	0.2	H	0.033	0.18	mg/Kg	0.20	J-
SSR-ST-C02-211221	8270D	Fluorene	0.025	U H	0.025	0.18	mg/Kg	0.18	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-C02-211221	8270D	Hexachlorobenzene	0.042	U H	0.042	0.36	mg/Kg	0.36	UJ
SSR-ST-C02-211221	8270D	Hexachlorobutadiene	0.28	U H	0.28	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Hexachlorocyclopentadiene	1	U H	1	3.6	mg/Kg	3.6	UJ
SSR-ST-C02-211221	8270D	Hexachloroethane	0.27	U H	0.27	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Indeno[1,2,3-cd]pyrene	0.047	U H *3	0.047	0.18	mg/Kg	0.18	UJ
SSR-ST-C02-211221	8270D	Isophorone	0.2	U H	0.2	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Naphthalene	0.028	U H	0.028	0.18	mg/Kg	0.18	UJ
SSR-ST-C02-211221	8270D	Nitrobenzene	0.045	U H	0.045	0.18	mg/Kg	0.18	UJ
SSR-ST-C02-211221	8270D	N-Nitrosodi-n-propylamine	0.22	U H	0.22	0.36	mg/Kg	0.36	UJ
SSR-ST-C02-211221	8270D	N-Nitrosodiphenylamine	0.21	U H	0.21	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Pentachlorophenol	2.9	U H	2.9	3.6	mg/Kg	3.6	UJ
SSR-ST-C02-211221	8270D	Phenanthrene	0.15	J H	0.025	0.18	mg/Kg	0.15	J-
SSR-ST-C02-211221	8270D	Phenol	0.4	U H	0.4	0.91	mg/Kg	0.91	UJ
SSR-ST-C02-211221	8270D	Pyrene	0.27	H	0.036	0.18	mg/Kg	0.27	J-
SSR-ST-C03-211221	8270D	1,2,4-Trichlorobenzene	0.79	U H	0.79	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	1,2-Dichlorobenzene	0.87	U H	0.87	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	1,3-Dichlorobenzene	0.82	U H	0.82	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	1,4-Dichlorobenzene	0.94	U H	0.94	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	2,2'-oxybis[1-chloropropane]	0.85	U H	0.85	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	2,4,5-Trichlorophenol	1.7	U H	1.7	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221	8270D	2,4,6-Trichlorophenol	2.5	U H	2.5	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221	8270D	2,4-Dichlorophenol	1.7	U H	1.7	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221	8270D	2,4-Dimethylphenol	2.8	U H	2.8	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221	8270D	2,4-Dinitrophenol	13	U H	13	15	mg/Kg	15	UJ
SSR-ST-C03-211221	8270D	2,4-Dinitrotoluene	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	2,6-Dinitrotoluene	1.4	U H	1.4	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	2-Chloronaphthalene	0.81	U H	0.81	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	2-Chlorophenol	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	2-Methylnaphthalene	0.13	U H	0.13	1.5	mg/Kg	1.5	UJ
SSR-ST-C03-211221	8270D	2-Methylphenol	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	2-Nitroaniline	0.98	U H	0.98	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	2-Nitrophenol	1.7	U H	1.7	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221	8270D	3 & 4 Methylphenol	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	3,3'-Dichlorobenzidine	1	U H *+	1	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	3-Nitroaniline	2.3	U H	2.3	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221	8270D	4,6-Dinitro-2-methylphenol	5.9	U H	5.9	15	mg/Kg	15	UJ
SSR-ST-C03-211221	8270D	4-Bromophenyl phenyl ether	0.96	U H	0.96	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	4-Chloro-3-methylphenol	2.5	U H	2.5	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221	8270D	4-Chloroaniline	3.4	U H	3.4	15	mg/Kg	15	UJ
SSR-ST-C03-211221	8270D	4-Chlorophenyl phenyl ether	0.85	U H	0.85	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	4-Nitroaniline	3.1	U H	3.1	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221	8270D	4-Nitrophenol	6.9	U H	6.9	15	mg/Kg	15	UJ
SSR-ST-C03-211221	8270D	Acenaphthene	0.13	U H	0.13	0.73	mg/Kg	0.73	UJ
SSR-ST-C03-211221	8270D	Acenaphthylene	0.096	U H	0.096	0.73	mg/Kg	0.73	UJ
SSR-ST-C03-211221	8270D	Anthracene	0.17	J H	0.12	0.73	mg/Kg	0.17	J-
SSR-ST-C03-211221	8270D	Benzo[a]anthracene	0.52	J H	0.098	0.73	mg/Kg	0.52	J-
SSR-ST-C03-211221	8270D	Benzo[a]pyrene	0.65	J H *3	0.14	0.73	mg/Kg	0.65	J
SSR-ST-C03-211221	8270D	Benzo[b]fluoranthene	1.1	H *3	0.16	0.73	mg/Kg	1.1	J
SSR-ST-C03-211221	8270D	Benzo[g,h,i]perylene	0.24	U H *3	0.24	0.73	mg/Kg	0.73	UJ
SSR-ST-C03-211221	8270D	Benzo[k]fluoranthene	0.36	J H *3	0.22	0.73	mg/Kg	0.36	J
SSR-ST-C03-211221	8270D	Bis(2-chloroethoxy)methane	0.75	U H	0.75	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Bis(2-chloroethyl)ether	1.1	U H	1.1	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Bis(2-ethylhexyl) phthalate	1.3	U H	1.3	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Butyl benzyl phthalate	1.4	U H	1.4	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Carbazole	1.8	U H *+	1.8	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Chrysene	0.74	H	0.2	0.73	mg/Kg	0.74	J-
SSR-ST-C03-211221	8270D	Dibenz(a,h)anthracene	0.14	U H *3	0.14	0.73	mg/Kg	0.73	UJ
SSR-ST-C03-211221	8270D	Dibenzofuran	0.86	U H	0.86	3.7	mg/Kg	3.7	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-C03-211221	8270D	Diethyl phthalate	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Dimethyl phthalate	0.95	U H	0.95	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Di-n-butyl phthalate	1.1	U H	1.1	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Di-n-octyl phthalate	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Fluoranthene	0.86	H	0.14	0.73	mg/Kg	0.86	J-
SSR-ST-C03-211221	8270D	Fluorene	0.1	U H	0.1	0.73	mg/Kg	0.73	UJ
SSR-ST-C03-211221	8270D	Hexachlorobenzene	0.17	U H	0.17	1.5	mg/Kg	1.5	UJ
SSR-ST-C03-211221	8270D	Hexachlorobutadiene	1.1	U H	1.1	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Hexachlorocyclopentadiene	4.2	U H	4.2	15	mg/Kg	15	UJ
SSR-ST-C03-211221	8270D	Hexachloroethane	1.1	U H	1.1	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Indeno[1,2,3-cd]pyrene	0.3	J H *3	0.19	0.73	mg/Kg	0.30	J
SSR-ST-C03-211221	8270D	Isophorone	0.82	U H	0.82	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Naphthalene	0.11	U H	0.11	0.73	mg/Kg	0.73	UJ
SSR-ST-C03-211221	8270D	Nitrobenzene	0.18	U H	0.18	0.73	mg/Kg	0.73	UJ
SSR-ST-C03-211221	8270D	N-Nitrosodi-n-propylamine	0.89	U H	0.89	1.5	mg/Kg	1.5	UJ
SSR-ST-C03-211221	8270D	N-Nitrosodiphenylamine	0.86	U H	0.86	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Pentachlorophenol	12	U H	12	15	mg/Kg	15	UJ
SSR-ST-C03-211221	8270D	Phenanthrene	0.54	J H	0.1	0.73	mg/Kg	0.54	J-
SSR-ST-C03-211221	8270D	Phenol	1.6	U H	1.6	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221	8270D	Pyrene	1	H	0.15	0.73	mg/Kg	1.0	J-
SSR-ST-C03-211221-D	8270D	1,2,4-Trichlorobenzene	0.79	U H	0.79	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	1,2-Dichlorobenzene	0.87	U H	0.87	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	1,3-Dichlorobenzene	0.82	U H	0.82	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	1,4-Dichlorobenzene	0.94	U H	0.94	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	2,2'-oxybis[1-chloropropane]	0.85	U H	0.85	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	2,4,5-Trichlorophenol	1.7	U H	1.7	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221-D	8270D	2,4,6-Trichlorophenol	2.5	U H	2.5	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221-D	8270D	2,4-Dichlorophenol	1.7	U H	1.7	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221-D	8270D	2,4-Dimethylphenol	2.8	U H	2.8	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221-D	8270D	2,4-Dinitrophenol	13	U H	13	15	mg/Kg	15	UJ
SSR-ST-C03-211221-D	8270D	2,4-Dinitrotoluene	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	2,6-Dinitrotoluene	1.4	U H	1.4	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	2-Chloronaphthalene	0.81	U H	0.81	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	2-Chlorophenol	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	2-Methylnaphthalene	0.13	U H	0.13	1.5	mg/Kg	1.5	UJ
SSR-ST-C03-211221-D	8270D	2-Methylphenol	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	2-Nitroaniline	0.98	U H	0.98	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	2-Nitrophenol	1.7	U H	1.7	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221-D	8270D	3 & 4 Methylphenol	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	3,3'-Dichlorobenzidine	1	U H *+	1	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	3-Nitroaniline	2.3	U H	2.3	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221-D	8270D	4,6-Dinitro-2-methylphenol	5.9	U H	5.9	15	mg/Kg	15	UJ
SSR-ST-C03-211221-D	8270D	4-Bromophenyl phenyl ether	0.96	U H	0.96	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	4-Chloro-3-methylphenol	2.5	U H	2.5	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221-D	8270D	4-Chloroaniline	3.4	U H	3.4	15	mg/Kg	15	UJ
SSR-ST-C03-211221-D	8270D	4-Chlorophenyl phenyl ether	0.85	U H	0.85	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	4-Nitroaniline	3.1	U H	3.1	7.3	mg/Kg	7.3	UJ
SSR-ST-C03-211221-D	8270D	4-Nitrophenol	7	U H	7	15	mg/Kg	15	UJ
SSR-ST-C03-211221-D	8270D	Acenaphthene	0.13	J H	0.13	0.73	mg/Kg	0.13	J-
SSR-ST-C03-211221-D	8270D	Acenaphthylene	0.096	U H	0.096	0.73	mg/Kg	0.73	UJ
SSR-ST-C03-211221-D	8270D	Anthracene	0.13	J H	0.12	0.73	mg/Kg	0.13	J-
SSR-ST-C03-211221-D	8270D	Benzo[a]anthracene	0.44	J H	0.098	0.73	mg/Kg	0.44	J-
SSR-ST-C03-211221-D	8270D	Benzo[a]pyrene	0.61	J H *3	0.14	0.73	mg/Kg	0.61	J
SSR-ST-C03-211221-D	8270D	Benzo[b]fluoranthene	1.1	H *3	0.16	0.73	mg/Kg	1.1	J
SSR-ST-C03-211221-D	8270D	Benzo[g,h,i]perylene	0.27	J H *3	0.24	0.73	mg/Kg	0.27	J
SSR-ST-C03-211221-D	8270D	Benzo[k]fluoranthene	0.48	J H *3	0.22	0.73	mg/Kg	0.48	J
SSR-ST-C03-211221-D	8270D	Bis(2-chloroethoxy)methane	0.75	U H	0.75	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Bis(2-chloroethyl)ether	1.1	U H	1.1	3.7	mg/Kg	3.7	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-C03-211221-D	8270D	Bis(2-ethylhexyl) phthalate	1.3	U H	1.3	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Butyl benzyl phthalate	1.4	U H	1.4	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Carbazole	1.8	U H *+	1.8	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Chrysene	0.63	J H	0.2	0.73	mg/Kg	0.63	J-
SSR-ST-C03-211221-D	8270D	Dibenz(a,h)anthracene	0.14	U H *3	0.14	0.73	mg/Kg	0.73	UJ
SSR-ST-C03-211221-D	8270D	Dibenzofuran	0.86	U H	0.86	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Diethyl phthalate	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Dimethyl phthalate	0.95	U H	0.95	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Di-n-butyl phthalate	1.1	U H	1.1	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Di-n-octyl phthalate	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Fluoranthene	0.79	H	0.14	0.73	mg/Kg	0.79	J-
SSR-ST-C03-211221-D	8270D	Fluorene	0.1	U H	0.1	0.73	mg/Kg	0.73	UJ
SSR-ST-C03-211221-D	8270D	Hexachlorobenzene	0.17	U H	0.17	1.5	mg/Kg	1.5	UJ
SSR-ST-C03-211221-D	8270D	Hexachlorobutadiene	1.1	U H	1.1	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Hexachlorocyclopentadiene	4.2	U H	4.2	15	mg/Kg	15	UJ
SSR-ST-C03-211221-D	8270D	Hexachloroethane	1.1	U H	1.1	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Indeno[1,2,3-cd]pyrene	0.22	J H *3	0.19	0.73	mg/Kg	0.22	J
SSR-ST-C03-211221-D	8270D	Isophorone	0.82	U H	0.82	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Naphthalene	0.11	U H	0.11	0.73	mg/Kg	0.73	UJ
SSR-ST-C03-211221-D	8270D	Nitrobenzene	0.18	U H	0.18	0.73	mg/Kg	0.73	UJ
SSR-ST-C03-211221-D	8270D	N-Nitrosodi-n-propylamine	0.89	U H	0.89	1.5	mg/Kg	1.5	UJ
SSR-ST-C03-211221-D	8270D	N-Nitrosodiphenylamine	0.86	U H	0.86	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Pentachlorophenol	12	U H	12	15	mg/Kg	15	UJ
SSR-ST-C03-211221-D	8270D	Phenanthrene	0.49	J H	0.1	0.73	mg/Kg	0.49	J-
SSR-ST-C03-211221-D	8270D	Phenol	1.6	U H	1.6	3.7	mg/Kg	3.7	UJ
SSR-ST-C03-211221-D	8270D	Pyrene	0.96	H	0.15	0.73	mg/Kg	0.96	J-

DATA VALIDATION CHECKLIST – STAGE 3

Site Name	RMG SITE	**Project No.**	103Z328406002
Data Reviewer (signature and date)	Tracey Roach February 3, 2022	**Technical Reviewer (signature and date)**	Bruce Welch February 3, 2022
Laboratory Report No.	500-210257-4	**Laboratory**	Eurofins TestAmerica – Chicago, IL

Analyses	Metals by EPA SW-846 Method 6010B
Samples and Matrix	One solid sample
Collection Date(s)	December 21, 2021
Field Duplicate Pairs	None
Field QC Blanks	None

INTRODUCTION

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *NFG for Inorganic Superfund Methods Data Review* (January 2020).

OVERALL EVALUATION

No rejection or qualifications of the data was required for this data package. The results may be used as reported by the laboratory.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

DATA VALIDATION CHECKLIST – STAGE 3

Instrument Performance Checks:

Within Criteria	Exceedance/Notes
NA	

Initial Calibration:

Within Criteria	Exceedance/Notes
N	The NFG requires daily initial calibration (ICAL) for ICP-AES instrumentation, and the ICAL to contain a blank standard plus the number of calibration standards specified in the quality assurance project plan (QAPP) or statement of work (SOW). However, this project does not have a QAPP or SOW that specifies ICAL criteria for ICP-AES instrumentation, thus the laboratory met the EPA SW-846 Method 6010B requirement to analyze a blank standard plus one non-zero standard solution. The laboratory was contacted, and they stated the linear range of the ICP-AES instrumentation is bi-annually verified; thus, the laboratory proved instrument linearity beyond the concentration of the single point ICAL, and the linearity range extends to the raw instrument concentration of the metals in the project samples. While no qualifications were applied, the data user should note the NFG requires ICP-AES instrumentation to analyze a minimum of three replicate exposures, but the laboratory analyzed only two replicate exposures. Also, since the laboratory utilized a single-point ICAL, the linear regression could not be recalculated.

Continuing Calibration:

Within Criteria	Exceedance/Notes
Y	

Calibration Verification:

Within Criteria	Exceedance/Notes
Y	The CRI 500-639419/10 standard had a 160% recovery for iron that exceeded the laboratory control limit. No qualifications were applied because the sample results greatly exceeded the reporting limit.

Method blanks:

Within Criteria	Exceedance/Notes
N	The continuing calibration blank (CCB) 500-639442 contained iron above the method detection limit. No qualifications were applied to the associated sample, SSR-SS-A01-211221 (500-210257-1), because the iron sample result was greater than 10x the concentration of iron in the CCB and the iron sample result exceeded the reporting limit.

Field blanks:

Within Criteria	Exceedance/Notes
NA	

Interference Check Samples (ICS) (ICP metals only):

Within Criteria	Exceedance/Notes
N	The absolute value of the -0.0013 mg/L cadmium result exceeded the 0.001 mg/L method detection limit for ICSA 500-639419/13. A comparison of the raw instrument data for the samples with the raw instrument data for the ICSA solutions showed that the concentrations for one or more interferent were similar to the concentration of the interferents in the ICSA solution. The cadmium raw sample concentration for the soil samples was>10x the ICSA raw instrument concentrations, therefore, the cadmium results were not qualified.

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
NA	

MS/MSD:

Within Criteria	Exceedance/Notes
NA	No matrix spike/matrix spike duplicate were analyzed. Sample SSR-SS-A01-211221 was a re-analysis.

Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	

Serial dilutions:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
NA	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	Arsenic, iron, cadmium, manganese, and nickel were analyzed with a 5-fold dilution for sample SSR-SS-A01-211221. Lead was analyzed with a 20-fold dilution for sample SSR-SS-A01-211221. While no qualifications were applied for dilutions, the data user should note the increased reporting limits.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

Second column confirmation (GC and HPLC analyses only):

Within Criteria	Exceedance/Notes
NA	

Internal Standards:

Within Criteria	Exceedance/Notes
Y	

Target analyte identification:

Within Criteria	Exceedance/Notes
NA	

Analyte quantitation and MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [NA]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

RMG SITE SOIL ANALYTICAL RESULTS
EUROFINS TESTAMERICA REPORT NO. 500-210257-4

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-A01-211221	6010B	Arsenic	140		1.8	5.3	mg/Kg	140	
SSR-SS-A01-211221	6010B	Cadmium	37		0.19	1.1	mg/Kg	37	
SSR-SS-A01-211221	6010B	Chromium	150		0.53	1.1	mg/Kg	150	
SSR-SS-A01-211221	6010B	Cobalt	8.7		0.14	0.53	mg/Kg	8.7	
SSR-SS-A01-211221	6010B	Iron	120000	^2	55	110	mg/Kg	120000	
SSR-SS-A01-211221	6010B	Lead	160000		4.9	11	mg/Kg	160000	
SSR-SS-A01-211221	6010B	Manganese	2300		0.77	5.3	mg/Kg	2300	
SSR-SS-A01-211221	6010B	Nickel	140		1.6	5.3	mg/Kg	140	

500-210257-4 Metals by 6010B

ICAL: ICP6 on 1/24/2022; ICP6 & ICP8 on 1/25/2022 (pp. 73-95) ✓
All ICALs were single point with all R = 1.0 and
% difference from true concentration

ICV: 500-639419/7 1/25/2022 @ 10:08 (pp. 25, 717) ✓
Mn = 95% Recovery
Form = 3.78 mg/L Raw = 3.781029 ppm

$$\left(\frac{3.781029\ \text{ppm}}{4.00\ \text{ppm}}\right) \times 100 = 94.526\%$$

ICB 500-639335/8 1/24/2022 @ 15:48 (pp. 28, 109) ✓
Cr = <0.010
Form: <0.010 Raw: -0.000093 ppm

CRI: 500-639419/10 1/25/2022 @ 10:19 (pp. 27, 724) ✓
Cd = 101% Recovery
Form: 0.00405 mg/L Raw = 0.0040464 ppm

$$\left(\frac{0.0040464\ \text{ppm}}{0.0040\ \text{ppm}}\right) \times 100 = 101.16\%$$

Opening CCV 500-639419/41 1/25/2022 @ 12:01 (pp. 25, 813)
Pb = 102%
Form = 0.508 mg/L Raw = 0.5080708 ppm

$$\left(\frac{0.5080708\ \text{ppm}}{0.500\ \text{ppm}}\right) \times 100 = 101.61\%$$

500-210257-4 Metals by 6010B

Closing CCV: 500-639419/52 1/25/2022 @ 12:37 (pp. 25, 840) ✓

Ni = 102% Recovery

Form: 0.509 mg/L Raw data = 0.5085316 ppm

$$\left(\frac{0.5085316 \text{ ppm}}{0.500 \text{ ppm}}\right) \times 100 = 101.66\%$$

Opening CCB: 500-639419/42: 1/25/2022 @ 12:04 (pp. 30, 814) ✓

As: <0.010 mg/L

Form = <0.010 mg/L Raw = 0.0006545

Closing CCB 500-639419/53 1/25/2022 @ 12:40 (pp. 30, 842) ✓

Cd: <0.0020

Form = <0.0020 Raw = 0.0000339 ppm

MB 500-639186/1-A 1/25/2022 @ 12:21 (pp. 32, 828, JJ)

Mn: <1.0 mg/Kg ✓

$$\frac{0.0007595 \text{ ppm} \times 0.10 \text{ L}}{0.001 \text{ Kg}} = 0.07595 \text{ mg/Kg}$$

ICSA 500-639442/11 1/25/2022 @ 10:17 (pp. 36, 430) ✓

Fe = 109%

FORM = 218 mg/L Raw = 218.4287 ppm

$$\left(\frac{218.4287 \text{ ppm}}{200.0 \text{ ppm}}\right) \times 100 = 109.21\%$$

500-210257-4 Metals by 6010 B

ICSAB: 500-639442/12 1/25/2022 @ 10:20 (pp 37, 433)

Fe = 110 %

Form = 220 mg/L Raw = 220.3258 ppm

$$\left(\frac{220.3258 \text{ ppm}}{200 \text{ ppm}}\right) \times 100 = 110.16\%$$

MS/MSD : No Matrix Spike/Matrix Spike Duplicate. Sample SSR-SS-A01-211221 is a re-analysis in SDG 500-210257-4. Not applicable

Lab Duplicate Not applicable. Sample SSR-SS-A01-211221 is a re-analysis.

LCS 500-639186/2-A 1/25/2022 @ 12:24 (pp 41, 55, 830)

Mn = 90% Recovery; 44.8 mg/Kg

$$\frac{0.4483461 \text{ ppm} \times 0.10 L}{0.0010 \text{ Kg}} = 44.83 \text{ mg/Kg}$$ ✓

$$\%R: \left(\frac{44.8}{50.0}\right) \times 100 = 89.67\%$$ ✓

✓

Sample: SSR-SS-A01-211221 1/25/2022 @ 12:28 (pp. 21, 55, 7, 832)

As = 140 mg/Kg

$$As = \frac{0.2552547 \text{ ppm} \times 0.1 L \times dF5}{0.0010743 \text{ Kg} \times 0.873} = \frac{0.12763}{9.379 \times 10^{-4}} = 136.086 \text{ mg/Kg}$$

≈ 140 mg/Kg

500-210257-4 Metals by 6010 B

Adjusted RL/MDL

SSR-SS-A01-211221 1/25/2022 @ 12:08 [pp. 21, 9, 70]

As RL = 5.3 mg/Kg

Cr MDL = 0.53 mg/Kg

Unadjusted As RL = 1.0 mg/Kg ; Cd MDL = 0.036 mg/Kg

Adjusted As RL:

$$\frac{1.0\ \text{mg/Kg} \times 100\ \text{mL} \times 1\text{g} \times DF\ 5}{100\ \text{mL} \times 1.0743\ \text{g} \times 0.873} = 5.33\ \text{mg/Kg}$$ ✓

Adjusted Cr MDL:

$$\frac{0.50\ \text{mg/Kg} \times 100\ \text{mL} \times 1\text{g} \times DF\ 1}{100\ \text{mL} \times 1.0743\ \text{g} \times 0.873} = 0.533\ \text{mg/Kg}$$ ✓

Note: For unit clarification

1 ppm = 1 mg/L

1 ppm = 1 mg/Kg

DATA VALIDATION CHECKLIST – STAGE 3

Site Name	RMG SITE		**Project No.**	103Z328406002
Data Reviewer (signature and date)	Bruce Welch January 29, 2022		**Technical Reviewer (signature and date)**	Harry N. Ellis III 1 February 2022
Laboratory Report No.	500-210259-1		**Laboratory**	Eurofins TestAmerica – Chicago, IL
Analyses	Metals by EPA SW-846 Methods 6010B/7470A/7471B, polychlorinated biphenyls (PCB) by EPA SW-846 Method 8082A, and pH by EPA SW-846 Method 9045D			
Samples and Matrix	Seventeen solid samples including one field duplicate solid sample, and one rinsate blank water sample			
Collection Date(s)	December 21, 2021			
Field Duplicate Pairs	SSR-ST-G02-211221 / SSR-ST-G02-211221-D			
Field QC Blanks	SSR-RS-BLANK-211221			

INTRODUCTION

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (January 2020), and the EPA *NFG for Inorganic Superfund Methods Data Review* (January 2020).

OVERALL EVALUATION

No rejection of the data was required for this data package. The results may be used as qualified based on the findings of this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
N	**PCBs**: The laboratory narrated that they dilute the calibration verification standard solution CCVIS 500-636011/2. The laboratory was contacted, and they confirmed the comment about the CCV in the narrative was an error. No qualification was applied, and the laboratory narrative comment for diluting the solution CCVIS 500-636011/2 may be disregarded. **pH**: The analysis should be performed immediately following sample collection, but the soil samples were analyzed seven days after the sample collection date; therefore, all soil sample pH results were qualified as estimated (flagged J). The data user should note the temperature results in the attached qualified data table are the temperature that was measured at the time of the pH analysis and not related to the sample collection.

Instrument Performance Checks:

Within Criteria	Exceedance/Notes
NA	

Initial Calibration:

Within Criteria	Exceedance/Notes
N	**Metals**: The NFG requires daily initial calibration (ICAL) for ICP-AES instrumentation, and the ICAL to contain a blank standard plus the number of calibration standards specified in the quality assurance project plan (QAPP) or statement of work (SOW). However, this project does not have a QAPP or SOW that specifies ICAL criteria for ICP-AES instrumentation, thus the laboratory met the EPA SW-846 Method 6010B requirement to analyze a blank standard plus one non-zero standard solution. The laboratory was contacted because some of the raw instrument sample concentrations were up to approximately three hundred times the concentration of the single-point ICAL. The laboratory stated the linear range of the ICP-AES instrumentation is bi-annually verified; thus, the laboratory proved instrument linearity beyond the concentration of the single point initial calibration, and the linearity range extends to the raw instrument concentration of the metals in the project samples. While no qualifications were applied, the data user should note the NFG requires ICP-AES instrumentation to analyze a minimum of three replicate exposures, but the laboratory analyzed only two replicate exposures. Also, since the laboratory utilized a single-point ICAL, the linear regression could not be recalculated.

Initial Calibration (continued):

Within Criteria	Exceedance/Notes
N	**pH**: The ICAL requirements are to conduct a daily ICAL with five buffer solutions (pH: 2, 4, 7, 10, 13) that result in a slope value that is ≥95% and buffer solutions that are within ±0.05 units from the true pH value. The pH meter calibration slope value was documented in the general chemistry batch worksheet and met the acceptance limit; however, the meter readings for each buffer solution were not presented in the data package. While no qualifications were applied, the data user should note the calibration buffer solutions were not verified to be ±0.05 units from the true pH value, and the slope was not recalculated.

Continuing Calibration:

Within Criteria	Exceedance/Notes
N	**PCBs:** The continuing calibration verification (CCV) solution 500-635924/2 that was analyzed on the primary column ZB-5 had percent difference (%D) values for PCB-1016 and PCB-1260 exceed the laboratory acceptance limit. Therefore, the greater of the two PCB results for samples SSR-ST-D02-211221, SSR-ST-D04-211221, SSR-ST-F02-211221, SSR-SS-G01-211221, SSR-ST-G02-211221, and SSR-ST-G02-211221-D were reported from the confirmation column ZB-CLP-Pest2 which had acceptable %D values, except for the surrogate decachlorobiphenyl. Note that no qualifications were applied for the %D exceedance for the surrogate decachlorobiphenyl and that the laboratory job narrative incorrectly noted the samples were reported from the primary column. The CCV solution 500-636011/2 that was analyzed on the primary column ZB-5 had a %D value for PCB-1016 peak #4 and %D values for PCB-1260 peaks #4 and #5 exceed the laboratory acceptance limit; however, no qualifications were applied for the PCB-1016 or PCB-1260 results because the average %D values for the PCB-1016 peaks and PCB 1260 peaks were within the laboratory acceptance criteria. The CCV solution 500-636011/2 that was analyzed on the confirmation column ZB-CLP-Pest2 had a %D value for PCB-1016 peak #1 and PCB-1260 peak #5 exceed the laboratory acceptance limit; however, no qualifications were applied because the average %D values for the PCB-1016 peaks and PCB 1260 peaks were within the laboratory acceptance criteria.

Calibration Verification:

Within Criteria	Exceedance/Notes
N	**Metals**: EPA SW-846 Method 6010B does not require the lowest standard solution of the ICAL to equal the reporting limit (RL) concentration, but the NFG requires the lowest standard solution of the ICAL to be equivalent to the concentration of each metal's RL. The laboratory utilized a single point ICAL using a concentration of 1.0 milligrams per liter (mg/L), and verified the ICAL using an initial calibration verification (ICV) standard solution containing 20.0 mg/L of lead, 4.0 mg/L of manganese, and 0.4 mg/L for the remaining reported metals. No qualifications were applied to the soil sample results because all soil sample results exceeded the RLs. However, the water RL concentrations are less than the concentrations of the metals in the ICV, thus the water RLs were not verified. A review of the raw instrument data showed a low-level ICV (ICVL) solution was analyzed before the water rinsate blank sample, and the concentrations of the metals in the ICVL solution are equivalent to the RL concentrations. An evaluation of the ICVL 500-636770/16 raw instrument data was compared to the water RLs, and showed that for all metals in the ICVL solution the recoveries were within ±20% of the RL concentrations, except the recovery for iron was 129.7%. Therefore, because iron's ICVL recovery was unacceptable, but iron ICV recovery was acceptable at 20.0 mg/L, the iron nondetect result for sample SSR-RS-BLANK-211221 was increased to 20.0 mg/L.

Method blanks:

Within Criteria	Exceedance/Notes
N	**Metals**: The soil method blank 500-636949/1-A contained 0.0633 milligrams per kilogram (mg/Kg) of cadmium; however, no qualifications were applied because the cadmium sample results exceeded the RL and were greater than ten times (>10x) the concentration of cadmium in the method blank. The initial calibration blank (ICB) 500-636770/8 contained 0.208 mg/L of iron and the continuing calibration blank (CCB) 500-636770/29 contained 0.292 µg/L of iron; however, no qualification was applied to the iron result for sample SSR-RS-BLANK-211221 that was associated with these ICB and CCB solutions because the iron sample result was nondetect. The CCB 500-636113/57 contained 0.0160 micrograms per liter (µg/L) of mercury and the CCB 500-636113/69 contained 0.0170 µg/L of mercury; however, no qualifications were applied to the mercury sample results that were associated with these CCB solutions because the mercury results were nondetect.

Field blanks:

Within Criteria	Exceedance/Notes
N	**SSR-RS-BLANK-211221**: The aqueous rinsate blank contained 0.00046 mg/L of cadmium and 0.0039 mg/L of manganese, which are both concentrations that are less the RL, and 0.0078 mg/L of lead which is a concentration that exceeds the RL. No qualifications were applied to the cadmium, manganese, and lead soil sample results because a comparison of the raw instrument data for all soil samples (adjusted for dilution) with the raw instrument data for this rinsate blank showed that the concentrations of cadmium, manganese, and lead in all soil samples exceeded the RL and was >10x the concentration of cadmium, manganese, and lead in the rinsate blank, except for lead for sample SSR-ST-F02-211221. A comparison of the lead raw instrument result for sample SSR-ST-F02-211221 (adjusted for dilution) with the lead raw instrument result for the rinsate blank showed that the raw instrument concentration of lead in sample SSR-ST-F02-211221 exceeded the RL, but was <10x the lead raw instrument concentration in the rinsate blank; therefore, the lead result was qualified as estimated, possibly biased high (flagged J+).

Interference Check Samples (ICS) (ICP metals only):

Within Criteria	Exceedance/Notes
N	The percent recoveries for all ICSA and ICSAB solutions were within the acceptance limits. However, the ICSA solution 500-637240/11 that was analyzed on January 10, 2022, at 10:46 had a positive result for cadmium that exceeded the method detection limit (MDL) value, and a negative result for lead with an absolute value that exceeded the MDL. A comparison of the raw instrument data for all soil samples (adjusted for dilution) with the raw instrument data for this ICSA solution showed that the concentrations (adjusted for dilution) for one or more interferents was similar to the concentration of the interferent in the ICSA solution. No qualifications were applied because the cadmium raw sample concentrations (adjusted for dilution) for all samples were >10x the cadmium ICSA raw instrument concentration, except for samples SSR-ST-F02-211221 and SSR-SS-G01-211221. The cadmium raw sample concentrations (adjusted for dilution) for SSR-ST-F02-211221 and SSR-SS-G01-211221 were <10x the cadmium ICSA raw instrument concentration; therefore, the cadmium result for SSR-ST-F02-211221 and SSR-SS-G01-211221 were qualified as estimated, possibly biased high (flagged J+). No qualifications were applied to the lead sample results because the samples were reanalyzed, and lead was reported from a different instrument sequence. The ICSA solution 500-636770/11 that was analyzed on January 5, 2022, at 19:22 had positive results for arsenic and chromium exceed the MDL value, and the cadmium negative result had an absolute value that exceeded the MDL; however, no qualifications were applied to the arsenic, chromium, and cadmium sample results because a comparison of the raw instrument data for the samples (adjusted for dilution) analyzed on January 5, 2022, with the raw instrument data for the ICSA solution showed that the concentrations of all interferents were not similar and less than the concentrations of the interferents in the ICSA solution.

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
N	**PCBs**: The recoveries for the surrogates decachlorobiphenyl and tetrachloro-m-xylene for samples SSR-SS-D01-211221, SSR-ST-D03-211221, and SSR-ST-G03-211221 were 0% which is less than the NFG acceptance criteria; however, no qualifications were applied because the surrogates for these samples were diluted out. Additionally, the recovery for the surrogate decachlorobiphenyl exceeded the laboratory acceptance limit on the column ZB-CLP-Pest2 for samples SSR-SS-F01-211221 and SSR-ST-F03-211221; however, no qualifications were applied to the PCB results because the lower of the two PCB results were reported from column ZB-5 which had surrogate recoveries within the laboratory acceptance criteria.

MS/MSD:

Within Criteria	Exceedance/Notes
N	**SSR-RS-BLANK-211221 (Metals)**: The MSD recovery for arsenic, cadmium, chromium, cobalt, lead, manganese, and nickel were less than the laboratory acceptance limit; however, no qualifications were applied because the MS/MSD average recovery for these metals was within the laboratory acceptance criteria. The relative percent difference (RPD) value for all metals except for iron exceeded the laboratory acceptance limit; therefore, the lead result was qualified as estimated (flagged J), and no qualifications were applied to the remaining nondetect sample results. Note the lead result was qualified with high bias due to competing qualifications from the field blank. **SSR-ST-D02-211221 (Metals):** The MS/MSD recoveries and RPD values for chromium, iron, lead, and manganese were not evaluated because the parent sample concentrations exceeded four times the spiked concentration. The average MS/MSD recoveries for cadmium, cobalt, and nickel were less than the laboratory acceptance limit and the RPD for these metals exceeded the laboratory acceptance limit; therefore, the cadmium, cobalt, and nickel sample result was qualified as estimated, possibly biased low (flagged J-). Additionally, the RPD for arsenic exceeded the laboratory acceptance limit; therefore, the arsenic sample result was qualified as estimated (flagged J).

Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	

Serial dilutions:

Within Criteria	Exceedance/Notes
Y	Serial dilutions were performed for samples SSR-ST-D02-211221 and SSR-RS-BLANK-211221.

Laboratory duplicates:

Within Criteria	Exceedance/Notes
N	**SSR-RS-BLANK-211221 (Metals):** The RPD for cadmium and manganese exceeded the laboratory acceptance limit; therefore, the parent sample result for cadmium and manganese was qualified as estimated (flagged J). **SSR-ST-D02-211221 (Metals):** The RPD for arsenic, chromium, cobalt, manganese, and nickel exceeded the laboratory acceptance limit; therefore, the parent sample result for arsenic, chromium, cobalt, manganese, and nickel was qualified as estimated (flagged J). Note that due to competing qualifications from the MS/MSD the cobalt and nickel sample results were qualified with low bias.

Field duplicates:

Within Criteria	Exceedance/Notes
N	**SSR-ST-G02-211221 / SSR-ST-G02-211221-D**: The RPD was 73.2% for nickel exceeded the 70% acceptance limit; therefore, the nickel result for the parent sample and field duplicate was qualified as estimated (flagged J). Additionally, the absolute difference for the mercury result between the parent sample and field duplicate exceeded the RL; therefore, the mercury result for the parent sample and field duplicate was qualified as estimated (flagged J).

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	While no qualifications were applied for dilutions, the data user should note the increased RLs. **PCBs**: All PCB analytes were analyzed with a 20-fold dilution for SSR-SS-D01-211221 and SSR-ST-G03-211221, 100-fold dilution for SSR-ST-D03-211221, 5-fold dilution for SSR-ST-D04-211221, and 10-fold dilution for SSR-SS-F01-211221 and SSR-ST-F03-211221. **Metals**: Mercury was analyzed with a 5-fold dilution for samples SSR-SS-D01-211221, SSR-IS-P02-211221, SSR-ST-G03-211221, SSR-IS-O01-211221, SSR-IS-O02-211221, and 2-fold dilution for SSR-IS-P01-211221. Arsenic, chromium, cobalt, iron, lead, manganese, and nickel were analyzed with 10-fold dilution for samples SSR-IS-E01-211221, SSR-SS-D01-211221, SSR-ST-D02-211221, SSR-ST-D03-211221, SSR-ST-D04-211221, SSR-ST-F02-211221, SSR-ST-F03-211221, SSR-ST-G02-211221, SSR-ST-G02-211221-D, SSR-ST-G03-211221, SSR-IS-E02-211221, and SSR-SS-F01-211221. Arsenic, chromium, iron, lead, manganese, and nickel were analyzed with 10-fold dilution for samples SSR-IS-E01-211221 and SSR-SS-G01-211221. Arsenic, chromium, cobalt, iron, lead, and nickel were analyzed with 10-fold dilution for samples SSR-IS-O01-211221 and SSR-IS-P01-211221. Arsenic, chromium, cobalt, lead, and nickel were analyzed with 10-fold dilution for sample SSR-IS-O02-211221. Arsenic, chromium, iron, lead, and nickel were analyzed with 10-fold dilution, and cobalt was analyzed with a 50-fold dilution for sample SSR-IS-P02-211221.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

Second column confirmation (GC and HPLC analyses only):

Within Criteria	Exceedance/Notes
N	**SSR-ST-D02-211221 (PCB)**: The RPD between the primary and confirmation column was 26.6% exceeded the NFG 25% acceptance limit; therefore, the PCB-1248 and total PCB results were qualified as estimated (flagged J). Note the PCB-1248 result was qualified biased high due to competing qualifications from analyte identification. The laboratory was contacted, and they confirmed the lower of the two PCB results are reported unless there is an instrument QC issue, and then the higher of the two PCB results associated with acceptable instrument QC criteria are reported. Additionally, the laboratory confirmed that the primary column is ZB-5, and the confirmation column results are always italicized.

Internal Standards:

Within Criteria	Exceedance/Notes
N	The laboratory was contacted, and they confirmed the ICP-AES instrument software uses internal standards to calculate metals results. While no qualifications were applied, the data user should note the serial dilution for sample SSR-ST-D02-211221 had a relative intensity for indium (In) that was less than the NFG 60% relative intensity limit. The data user should note the recovery for the internal standard 1-bromo-2-nitrobenzene used in the PCB analysis was within the laboratory acceptance criteria for all samples.

Target analyte identification:

Within Criteria	Exceedance/Notes
N	The laboratory narrated the chromatography for samples SSR-SS-D01-211221, SSR-ST-D02-211221, SSR-ST-D03-211221, SSR-ST-D04-211221, SSR-SS-F01-211221, SSR-ST-F02-211221, SSR-ST-F03-211221, SSR-SS-G01-211221, SSR-ST-G02-211221, SSR-ST-G02-211221-D, and SSR-ST-G03-211221 had more than one Aroclor present in these samples, but there was insufficient chromatographic resolution to individually quantify all Aroclors present in the samples. A review of the chromatography for these samples confirmed the samples may contain more than one Aroclor. The laboratory was contacted, and they stated Aroclor 1254 was likely present in the sample, but the laboratory was unable to quantitate both Aroclor 1248 and Aroclor 1254 because there is a significant overlap of shared peaks between Aroclor 1248 and Aroclor 1254 that are used for quantitation. The laboratory reported Aroclor 1248 as the primary Aroclor in the samples because Aroclor 1248 had the best pattern match, a lower RPD between the primary and confirmation columns, and a greater overall concentration in the sample. While the laboratory only reported Aroclor 1248, the laboratory also identified Aroclor 1254 was present in the sample, and the coelution of Aroclor 1254 peaks with Aroclor 1248 contributed an unknown additive instrument response; therefore, the Aroclor 1248 results for samples SSR-SS-D01-211221, SSR-ST-D02-211221, SSR-ST-D03-211221, SSR-ST-D04-211221, SSR-SS-F01-211221, SSR-ST-F02-211221, SSR-ST-F03-211221, SSR-SS-G01-211221, SSR-ST-G02-211221, SSR-ST-G02-211221-D, and SSR-ST-G03-211221 were qualified as estimated, possibly biased high (flagged J+). The total Aroclor result is a summation of all reported Aroclors, and the laboratory identified Aroclor 1254 was present in these samples, but due to poor chromatographic resolution the laboratory was unable to report Aroclor 1254 which biases the total Aroclor result possibly low; therefore, due to unknown competing bias, the total Aroclor result for these samples was qualified as estimated (flagged J).

Analyte quantitation and MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	The nondetect sample results were reported at the RL values in the laboratory PDF report, but the nondetect sample results were reported at the MDL values in the electronic data deliverable. Sample results between the MDL and the RL were flagged "J" by the laboratory. The nondetect sample results are reported at the RL values in the attached qualified data tables.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [sample preparation]:

Within Criteria	Exceedance/Notes
N	While no qualifications were applied, the data user should note that the laboratory performed EPA SW-864 Method 3660A using the mercury clean-up technique on the PCB sample extracts for samples SSR-SS-D01-211221, SSR-ST-D02-211221, SSR-ST-D03-211221, SSR-ST-D04-211221, SSR-SS-F01-211221, SSR-ST-F02-211221, SSR-ST-F03-211221, SSR-SS-G01-211221, SSR-ST-G02-211221, SSR-ST-G02-211221-D, and SSR-ST-G03-211221 to minimize the chromatographic interferences caused by elemental sulfur in the soil sample matrices.

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

500-210259-1 PCB

ICV : ICV 500-634137/7 12/16/21 17:08

PCB-1016 Peak 4 = -5.4% Pg: 532, 534

$$CRRF = \frac{14199 \times 0.1\ \mu g \cdot mL^{-1}}{205743 \times 0.25\ \mu g \cdot mL^{-1}} = 0.0276$$ ✓

$$\%D = \left[\frac{0.0276 - 0.0292}{0.0292}\right] \times 100 = -5.4\%$$ ✓

CCV : CCVIS 500-635924/2 12/29/21 09:44

PCB-1260 Peak 5 = -13.5% Pg: 550, 552-553

$$CRRF = \frac{43163 \times 0.1\ \mu g \cdot mL^{-1}}{87713 \times 0.5\ \mu g \cdot mL^{-1}} = 0.0984$$ ✓

$$\%D = \left[\frac{0.0984 - 0.1138}{\cancel{0.024}\ 0.1138}\right] \times 100 = -13.5\%$$

BW
1/19/22

500-210259-1 PCB

LCS: 500-635839/3-A 12/29/21 10:45

PCB-1016 = 100%, 0.167 $mg \cdot Kg^{-1}$ Pg: 51, 588-590, 389, 635

$$\text{PCB-1016 Peak 2} = \frac{52087 \times 0.10\ \mu g \cdot ml^{-1}}{101706 \times 0.100} = 0.5121\ \mu g \cdot ml^{-1}$$

$$\text{Average} = (0.5086 + 0.5121 + 0.4688 + 0.5047 + 0.5134)/5 = 0.5015$$

$$\frac{0.5015\ \mu g \cdot ml^{-1} \times 5mL}{0.0150\ Kg \times 1000\ \mu g \cdot mg^{-1}} = 0.167\ mg \cdot Kg^{-1}$$

$$\%R = \left(\frac{0.167\ mg \cdot Kg^{-1}}{0.167\ mg \cdot Kg^{-1}}\right) \times 100 = 100\%$$

MS: 500-210259-2 SSR-ST-D02-211221 12/29/21 13:51

PCB-1260 = 66%, 0.122 $mg \cdot Kg^{-1}$ Pg: 51, 595-598, 348, 635

$$\text{PCB-1260 Peak 1} = \frac{60395 \times 0.10\ \mu g \cdot ml^{-1}}{235106 \times 0.0820} = 0.3132\ \mu g \cdot ml^{-1}$$

$$\text{Average} = (0.3132 + 0.4251 + 0.3242 + 0.2910 + 0.2948)/5 = 0.3303\ \mu g \cdot ml^{-1}$$

$$\frac{0.3303\ \mu g \cdot ml^{-1} \times 5.0mL \times DF1}{0.0152362\ Kg \cdot 1000\ \mu g \cdot mg^{-1} \times 0.887} = 0.122\ mg \cdot Kg^{-1}$$

$$\%R = \left(\frac{0.122\ mg \cdot Kg^{-1}}{0.185\ mg \cdot Kg^{-1}}\right) \times 100 = 65.9\%$$

500-210259-1 PCB

MSD: 500-210259-2 SSR-ST-D02-211221 12/29/21 14:06

PCB-1260 = 76%, 0.143 $mg \cdot kg^{-1}$ Pg: 52, 613-616, 348, 635

RPD = 15%

$$\text{PCB-1260 Peak 2} = \frac{43239 \times 0.1\ \mu g \cdot mL^{-1}}{224273 \times 0.555} = 0.3474\ \mu g \cdot mL^{-1}$$ ✓

$$\text{Average} = (0.3877 + 0.4668 + 0.3474 + 0.3431 + 0.3541)/5 = 0.3798$$ ✓

$$\frac{0.3798\ \mu g \cdot mL^{-1} \times 5\,mL \times DF\,1}{0.0150181\ Kg \times 1000\ \mu g \cdot mg^{-1} \times 0.887} = 0.143\ mg \cdot Kg^{-1}$$ ✓

$$\%R = \left(\frac{0.143\ mg \cdot Kg^{-1}}{0.188\ mg \cdot Kg^{-1}}\right) \times 100 = 76.1\%$$ ✓

$$\%RPD = \left[\frac{0.143 - 0.122}{\left(\frac{0.143 + 0.122}{2}\right)}\right] \times 100 = 16\%$$ ✓

Surrogate SSR-SS-F01-211221 12/30/21 10:29

decachlorobiphenyl = 154% Pg: 50, 241-247

$$\frac{10873 \times 0.1\ \mu g \cdot mL^{-1}}{86206 \times 2.0482} = 0.006158\ \mu g \cdot mL^{-1}$$ ✓

$\times DF\,10 = 0.06158\ \mu g \cdot mL^{-1}$

BW 1/19/22

$$\%R = \left(\frac{\cancel{0.006158}\ 0.06158\ \mu g \cdot mL^{-1}}{0.0400\ \mu g \cdot mL^{-1}}\right) \times 100 = 153.95\%$$

500-210259-1 PCB

Sample: SSR-ST-D03-211221 12/30/21 10:14

PCB-1248 = 21 $mg \cdot kg^{-1}$ pg: 19, 200-202, 450, 635

$$\text{PCB-1248 Peak 1} = \frac{107826 \times 0.1\ \mu g \cdot mL^{-1}}{223314 \times 0.0461} = 1.05\ \mu g \cdot mL^{-1}$$ ✓

$$\text{Average} = (1.05 + 0.4813 + 0.3855 + 0.6013 + 0.3497)/5 = 0.5736$$ ✓

$$\frac{0.5732\ \mu g \cdot mL^{-1} \times 5.0\,mL \times DF100}{0.0152161\ kg \times 1000\ \mu g \cdot mg^{-1} \times 0.895} = 21.0\ mg \cdot kg^{-1}$$ ✓

Internal Standard: SSR-ST-D02-211221 12/29/21 13:35

pg: 148, 184, 545

$$\text{1-Bromo-2-nitrobenzene}: \left(\frac{223587}{186639}\right) \times 100 = 120\%$$ ✓

$$\Delta RT = 1.775 - 1.792 = -0.017$$ ✓

500-210259-1 PCB

Adjusted RL/MDL : SSR-SS-F01-211221 12/30/21 10:29
rg: 27, 635, 567

PCB-1248 RL = 0.19 $mg \cdot kg^{-1}$, MDL = 0.088 $mg \cdot kg^{-1}$

Unadjusted PCB-1248 RL = 0.017 $mg \cdot kg^{-1}$, MDL = 0.0079 $mg \cdot kg^{-1}$

Adjusted PCB-1248 RL: ✓

$$\frac{0.017\, mg \cdot kg^{-1} \times 5mL \times 15g \times DF10}{5mL \times 15.5729\,g \times 0.863} = 0.19\, mg \cdot kg^{-1}$$

Adjusted PCB-1248 MDL: ✓

$$\frac{0.0079\, mg \cdot kg^{-1} \times 5mL \times 15g \times DF10}{5mL \times 15.5729\,g \times 0.863} = 0.088\, mg \cdot kg^{-1}$$

RMG SITE PCB INITAL CALIBRATION RECALCULATION
EUROFINS TESTAMERICA REPORT NO. 500-210259-1

500-210259-1

Initial Calibration - PCB by Internal Standard | Aroclor 1260 | Pages: 349-373

GC-ECD Instrument: INST23-24 | Signal #1 | Column: ZB-5

Level	**1**	**2**	**3**	**4**	**5**	**6**
Concentration (µg/mL)	**0.040**	**0.100**	**0.250**	**0.500**	**0.750**	**1.000**
Aroclor 1260-1 (Response)	6335	15417	42833	86615	127156	173295
Aroclor 1260-1 (RF)	0.0773	0.0847	0.0851	0.0841	0.0816	0.0793
Aroclor 1260-2 (Response)	7195	17629	47351	96418	147683	187436
Aroclor 1260-2 (RF)	0.0878	0.0969	0.0941	0.0936	0.0947	0.0858
Aroclor 1260-3 (Response)	4506	10251	27964	56446	89611	117648
Aroclor 1260-3 (RF)	0.0550	0.0563	0.0556	0.0548	0.0575	0.0538
Aroclor 1260-4 (Response)	4848	11492	31494	62978	95920	126329
Aroclor 1260-4 (RF)	0.0591	0.0632	0.0626	0.0612	0.0615	0.0578
Aroclor 1260-5 (Response)	12171	30148	82818	179552	285090	411134
Aroclor 1260-5 (RF)	0.1484	0.1657	0.1646	0.1744	0.1829	0.1881
IS: 1-bromo-2-nitrobenzene (Response)	204983	181957	201282	205937	207855	218517
IS: 1-bromo-2-nitrobenzene (Concentration µg/mL)	0.1	0.1	0.1	0.1	0.1	0.1

	Aroclor 1260-Peak 1	**Aroclor 1260-Peak 2**	**Aroclor 1260-Peak 3**	**Aroclor 1260-Peak 4**	**Aroclor 1260-Peak 5**
Std Dev:	0.003211	0.004361	0.001277	0.002054	0.014313
Mean RF:	0.0820	0.0921	0.0555	0.0609	0.1707
%RSD:	3.9%	4.7%	2.3%	3.4%	8.4%
	✓	✓	✓	✓	✓

500-210259-1 Mercury

ICV: 500-636638/8 1/5/22 09:12

Hg = 110 % pg: 663, 1936

$C_x = (27237)(8.148E-5) + (-0.026796)$

$C_x = 2.1925 \mu g/L$

$\%R = \left(\frac{2.1925 \mu g \cdot L^{-1}}{2.0 \mu g \cdot L^{-1}}\right) \times 100 = 109.6\%$ ✓

ICB: 500-636638/9 1/5/22 09:14

Hg = < 0.20 $\mu g \cdot L^{-1}$ pg: 678, 1936

$C_x = (-311)(8.148E-5) + (-0.026796)$ ✓

$C_x = -0.0521 \mu g \cdot L^{-1}$

CRA: 500-636638/10 1/5/22 09:17

Hg = 101% pg: 671, 1936

$C_x = (2807)(8.148E-5) + (-0.026796)$ ✓

$C_x = 0.2019 \mu g \cdot L^{-1}$

Opening CCV: 500-636638/20 1/5/22 09:38

Hg = 103% pg: 663, 1936

$C_x = (13019)(8.148E-5) + (-0.026796)$ ✓

BW 1/19/22 $C_x = \cancel{1.040}\ 1.0340 \mu g \cdot L^{-1}$ ✓

$\%R = \left(\frac{1.03}{1.00}\right) \times 100 = 103\%$

500 - 210259 - 1 Mercury

Opening CCB : 500-636638/21 1/5/21 09:41

$Hg = < 0.20\ \mu g \cdot L^{-1}$ pg: 678, 1936

$C_x = (-220)(8.148E-5) + (-0.026796)$ ✓

$C_x = -0.0447\ \mu g \cdot L^{-1}$

Closing CCV : 500-636638/32 1/5/22 10:05

$Hg = 99\%$ pg: 663, 1936 ✓

$C_x = (12434)(8.148E-5) + (-0.026796) = 0.986\ \mu g \cdot L^{-1}$ ✓

$\%R = \left(\frac{0.986\ \mu g \cdot L^{-1}}{1.00\ \mu g \cdot L^{-1}}\right) \times 100 = 98.6\%$

Closing CCB : 500-636638/33 1/5/22 10:08

$Hg = < 0.20\ \mu g \cdot L^{-1}$ pg: 678, 1936 ✓

$C_x = (-301)(8.148E-5) + (-0.026796) = -0.0513\ \mu g \cdot L^{-1}$

MB : 500-636462/12-A 1/5/22 09:18

$Hg = < 0.017\ mg \cdot Kg^{-1}$ pg: 56, 1936, 755 ✓

$C_x = (-93)(8.148E-5) + (-0.026796) = -0.03437\ \mu g \cdot L^{-1}$ ✓

$C_x = \frac{-0.03437364\ \mu g \cdot L^{-1} \times 0.050\ L}{0.00060\ Kg \times 1000\ \mu g \cdot mg^{-1}} = -0.0029\ mg \cdot Kg^{-1}$

2

500-210259-1 Mercury

LCS 500-635942/13-A 12/30/21 09:45

$Hg = 101\%$, 0.00202 mg/L pg: 55, 754, 1929, 1931

$$C_x = \frac{15820 - 654.292}{\cancel{715}\ 7518.214} = 2.017\ \mu g \cdot L^{-1}$$

BW
1/19/22

$$C_x = \frac{2.017\ \mu g \cdot L \times 25 mL}{25 mL \times 1000 \mu g \cdot mg^{-1}} = 0.00202\ mg \cdot L^{-1}$$

$$\%R = \left(\frac{0.00202}{0.00200}\right) \times 100 = 101\%$$

MS : SSR-ST-D02-211221 1/5/21 09:18

$Hg = 97\%$, 0.153 mg·Kg⁻¹ pg: 1936, 56, 755

$$C_x = (21122)(8.148E-5) + (-0.026796) = 1.6942\ \mu g \cdot L^{-1}$$

$$C_x = \frac{1.6942\ \mu g \cdot L^{-1} \times 0.050 L}{0.0006253 Kg \times 1000\ \mu g \cdot mg^{-1} \times 0.887} = 0.153\ mg \cdot Kg^{-1}$$

$$\%R = \left[\frac{0.153\ mg \cdot Kg^{-1} - 0.066\ mg \cdot Kg^{-1}}{0.0901\ mg \cdot Kg^{-1}}\right] \times 100 = 96.6\%$$

500-210259-1 Mercury

MSD : SSR-ST-D02-211221 1/5/22 09:31

Hg = 107%, 0.162 mg·kg⁻¹ pg: 56, 1936, 755 ✓

$$C_x = (22429)(8.148E{-5}) + (-0.0267916) = 1.8007\ \mu g \cdot L^{-1}$$

$$C_x = \frac{1.8074\ \mu g \cdot L^{-1} \times 0.050\ L}{0.000\cancel{6255}\ kg \times 1000\ \mu g \cdot mg^{-1} \times 0.887} = 0.162\ mg \cdot kg^{-1}$$

6282

BW 1/19/22

✓

$$\%R = \left[\frac{0.162 - 0.066}{0.0897}\right] = 107\%$$

✓

$$RPD = \left[\frac{0.162 - 0.153}{\left(\frac{0.162 + 0.153}{2}\right)}\right] \times 100 = 5.7\%$$

Lab Dup : SSR-ST-D02-211221

$$RPD = \left[\frac{0.0724 - 0.066}{\left(\frac{0.0724 + 0.066}{2}\right)}\right] \times 100 = 9.7\%$$ ✓

500-210259-1 Mercury

Sample: SSR-SS-F01-211221 1/5/22 09:47

Hg = 0.18 mg·Kg⁻¹ pg: 27, 1936, 755

$C_x = (26170)(8.148E\text{-}5) + (-0.026796) = 2.1055\ \mu g \cdot L^{-1}$

$$C_x = \frac{2.1055\ \mu g \cdot L^{-1} \times 0.050\ L \times DF1}{0.0006645\ Kg \times 1000\ \mu g \cdot mg^{-1} \times 0.863} = 0.18\ mg \cdot Kg^{-1}$$

Adjusted RL/MDL: SSR-ST-G03-~~227~~221 1/5/22 10:21

pg: 39, 911, 755

Hg RL = 0.088 mg·Kg⁻¹, MDL = 0.029 mg·Kg⁻¹

Unadjusted Hg RL = 0.0167 mg·Kg⁻¹ MDL = 0.00556 mg·Kg⁻¹

Adjusted RL:

$$\frac{0.0167\ mg \cdot Kg^{-1} \times 50mL \times 0.6g \times DF5}{50mL \times 0.6401\ g \times 0.893} = 0.088\ mg \cdot Kg^{-1}$$

Adjusted MDL:

$$\frac{\overset{0.00556}{\cancel{0.029}}\ mg \cdot Kg^{-1} \times 50mL \times 0.6g \times DF5}{50mL \times 0.6401\ g \times 0.893} = 0.029\ mg \cdot Kg^{-1}$$

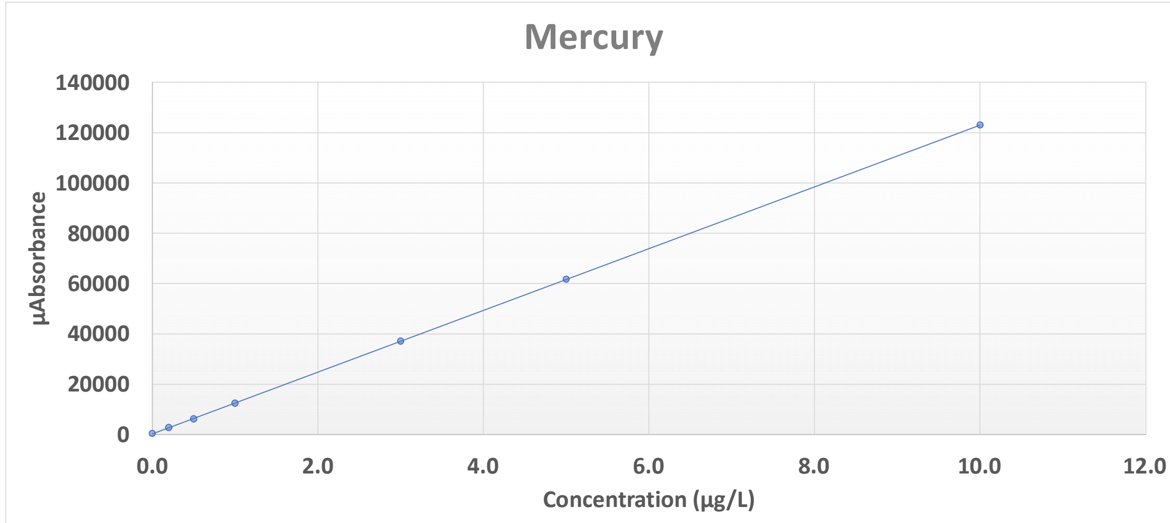
BW 1/19/22

RMG SITE MERCURY INITAL CALIBRATION RECALCULATION
EUROFINS TESTAMERICA REPORT NO. 500-210259-1

500-210259-1
Initial Calibration **Mercury**
CVAA Page: 1935-1936

Concentration (µg/L)	µAbsorbance
0.0	511
0.2	2842
0.5	6276
1.0	12464
3.0	37163
5.0	61802
10.0	123020

Slope: 12272.78
Intercept: 329.17
R: 0.9999956



Standard unweighted linear equation y=m*x+b
Leeman format weighted linear equation y=1/B*x+c *The equation is used when the mercury instrument utalizes weighted linear regression

Cs (x)

Concentration (µg/L)	y1	std dev	avg	%RSD	1/std dev^2	I		Wi	Wi*Csi	Wi*I	B numerator	B demonator	C
0	511	1	511	0.1957	1	0	511	676838.53	55.44	0.0000E+00	686905.2286	55.44142857	**-2.6821E-02**
0.20	2842	1	2842.00	0.0352	1	0.2	2842	586081.03	47.84	117216.21	638085.97	47.84142857	
0.50	6276	1	6276.00	0.0159	1	0.5	6276	463195.03	37.49	231597.51	564858.13	37.49142857	
1.00	12464	1	12464.00	0.0080	1	1	12464	284534.43	23.04	284534.43	442814.53	23.04142857	
3.00	37163	1	37163.00	0.0027	1	3	37163	2983.13	0.24	8949.39	-45324.87	0.241428571	
5.00	61802	1	61802.00	0.0016	1	5	61802	412085.83	33.44	2060429.14	-533408.27	33.44142857	
10.00	123020	1	123020.00	0.0008	1	10	123020	4434031.23	361.44	44340312.29	-1753371.77	361.4414286	

Wi sum = 7
sum wi*Csi = 19.7
Cs avg = 2.814285714
sum Wi*I = 244078

I avg = 34868.28571

sum B num = 6859749.20
sum B dem = 558.94

B = 12272.78277
1/B = **8.1481E-05**

STAGE 3/4 DATA VALIDATION CHECKLIST FOR RECALCULATIONS

Data Package Number: 210259-1

Validation Element	Objective	Sample ID, Run Date, and Run Time	Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)
Initial Calibration	Confirm (in ICP raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required).		ICP 6 1/10/2022 ICP 10 1/10/2022 ICP 6 1/11/2022 ICP 8 1/5/2022 ✓
	Confirm (in ICP raw data) that an initial calibration occurs at the required frequency.		
	Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.		All single point ICALS, thus all R = 1.0 and 0% diff

Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.

SHOW ALL WORK FOR RECALCULATIONS

Validation Element	Objective	Sample ID, Run Date, and Run Time	Results
ICV	Check result Co = 102%	500-637241/7 1/10/21 17:01	Co: form = 0.407, raw = 0.407 ✓
	Recalculate one %R	Pg: 659, 1120	Calculated result:*** $Co = \left(\frac{0.4070904}{0.400}\right) \times 100 = 101.8\%$ ✓
ICB	Check result Ni = <0.010 mg/L	500-637241/8 1/10/21 17:04	Ni: form <0.010 $mg \cdot L^{-1}$, raw = -0.00083 $mg \cdot L^{-1}$ ✓

STAGE 3/4 DATA VALIDATION CHECKLIST FOR RECALCULATIONS

Data Package Number: 210259-1

Validation Element	Objective	Sample ID, Run Date, and Run Time	Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)
CRDL Check Standard	Check result Cr = 95%	500-637241/10 1/10/22 17:11	Cr: 0.0189 $mg \cdot L^{-1}$; raw = 0.0189084 $mg \cdot L^{-1}$ ✓
	Recalculate one %R	pg: 667, 1129	**Calculated result:***** $Cr = \frac{0.0189084}{\cancel{0.0189}\ 0.020} \times 100 = 94.5\%$ ✓
An opening CCV applicable to our samples	Check result Fe = 98%	500-637241/52 1/10/22 19:32	Fe: form = 24.4 $mg \cdot L^{-1}$ raw = 24.408557 $mg \cdot L^{-1}$ ✓
	Recalculate one %R	pg: 659, 1232	**Calculated result:***** $Fe = \left(\frac{24.4}{25.0}\right) \times 100 = 97.6\%$ ✓
A closing CCV applicable to our samples	Check result Mn = 102%	500-637241/64 1/10/22 20:10	Mn: form = 5.10 $mg \cdot L^{-1}$ raw = 5.097819 $mg \cdot L^{-1}$ ✓
	Recalculate one %R	pg: 659, 1257	**Calculated result:***** $Mn = \left(\frac{5.097819}{5.0}\right) \times 100 = 101.9\%$ ✓
An opening CCB applicable to our samples	Check result Co = <0.0050	500-637241/53 1/10/22 19:35 pg: 674, 1236	Co: form = <0.0050, raw = -0.000070 ✓
A closing CCB applicable to our samples	Check result Pb = <0.0050	500-637241/65 1/10/22 20:14 pg: 674, 1261	Pb: form = <0.0050, raw = -0.001235 $mg \cdot L^{-1}$ ✓
Method blank	Check result ICP6 Cd = 0.0633 $mg \cdot kg^{-1}$	500-636949/1-A 1/10/22 14:39 pg: 53, 986, 752	**Calculated result:*** $Cd = \frac{0.0006334\ mg \cdot L^{-1} \times 0.10\ L}{0.001\ kg} = 0.0633\ mg \cdot kg^{-1}$ ✓

BW 1/19/22

STAGE 3/4 DATA VALIDATION CHECKLIST FOR RECALCULATIONS

Data Package Number: 210259-1

Validation Element	Objective	Sample ID, Run Date, and Run Time	Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)
ICSA sample	Check result Fe = 101%	500-637241/11 1/10/22 17:15	Fe: form = 202, raw = 202.0272 ✓
	Recalculate one %R	pg: 687, 1131	**Calculated result:***** $Fe = \left(\frac{202.0272}{200.0}\right) \times 100 = 101\%$ ✓
ICSAB sample	Check result Mn = 101%	500-637241/12 1/10/22 17:18	Mn: form = 0.503, raw = 0.5026434 ✓
	Recalculate one %R	pg: 688, 1134	**Calculated result:***** $Mn = \left(\frac{0.5026434}{0.500}\right) \times 100 = 100.5\%$ ✓

STAGE 3/4 DATA VALIDATION CHECKLIST FOR RECALCULATIONS

Data Package Number: 210259-1

Validation Element	Objective	Sample ID, Run Date, and Run Time	Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)
MS	Check result Fe = 123%	500-210259-18 1/5/22 20:41	**Calculated result:*** $Fe = \frac{1.231083\ mg \cdot L^{-1} \times 50mL}{50mL \times 1.0} = 1.23\ mg \cdot L^{-1}$ ✓
	Fe = 1.23 mg·L⁻¹ Recalculate one %R ICP8	Pg: 53, 1944, 751	**Calculated result:****** $Fe = \left(\frac{1.23 - 0.0}{1.0}\right) \times 100 = 123\%$ ✓
MSD	Check result Fe = 1.06 mg·L⁻¹	500-210259-18 1/5/22 20:45	**Calculated result:*** $Fe = \frac{1.061569\ mg \cdot L^{-1} \times 50mL}{50mL \times 1.0} = 1.06\ mg \cdot L^{-1}$ ✓
	Fe = 106% Recalculate one %R	Pg: 53, 1946 757	**Calculated result:****** $Fe = \left(\frac{1.06 - 0.0}{1.0}\right) \times 100 = 106\%$ ✓
	Recalculate one RPD value between MS and MSD	RPD = 15%	**Calculated result:** $\left[\frac{1.23 - 1.06}{\left(\frac{1.23 + 1.06}{2}\right)}\right] \times 100 = 14.8\%$ ✓
~~Post-digestion spike~~ BW 1/19/22 Lab Duplicate	Check result	500-210259-18 1/5/22 20:38	
	Recalculate one %R	PG: 53	~~**Calculated result:******~~ $RPD = \left[\frac{0.000752 - 0.000460}{\left(\frac{0.000752 + 0.000460}{2}\right)}\right] \times 100 = 48.2\%$ BW 1/19/22 ✓

STAGE 3/4 DATA VALIDATION CHECKLIST FOR RECALCULATIONS
Data Package Number: 210259-1

Validation Element	Objective	Sample ID, Run Date, and Run Time	Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)
LCS	Check result Pb = 86%	500-636949/2-A 1/10/22 14:43	**Calculated result:*** Pb = 0.0860364 mg·L⁻¹ × 0.10L / 0.0010 Kg = 8.6 mg·Kg⁻¹ ✓
	Pb = 8.6 mg·Kg⁻¹ Recalculate one %R	pg: 54,989,752	**Calculated result:***** Pb = (8.6 / 10.0) × 100 = 86% ✓
Serial Dilution	Check result Cd = 3.1%	500-210259-2 1/10/22 14:52	**Calculated result:**** Cd = 0.0089805 mg·L⁻¹ × 0.10L × DF5 / 0.0011393 Kg × 0.887 = 4.44 mg·Kg⁻¹ ✓
	Recalculate one percent difference value	pg 903, 996 752,	**Calculated result:** ((4.6 − 4.44) / 4.6) × 100 = 3.4% rounding ✓
Sample result for Mn	Check result Mn = 5500 mg·Kg⁻¹ SSR-ST-E03-211221	500-210259-13 1/10/22 20:36 pg: 39,1245, 752	**Calculated result:*** Mn = 5.282498 mg·L⁻¹ × 0.10L × DF10 / 0.0010701 Kg × 0.893 = 5528 ✓ 5500 mg·Kg⁻¹ ✓
MDL for Pb	Check result MDL = 2.4 mg·Kg⁻¹	500-210259-13 1/10/22 20:36 pg: 39, 52, 705	**Calculated result:*** ~~0.0027 mg·L⁻¹~~ 0.231 mg·Kg⁻¹ × DF10 × 1g / ~~0.00~~ 1.0701g × 0.893 = 2.4 mg·Kg⁻¹ BW 1/19/22 ✓ BW 1/19/22
RL for As	Check result RL = 10 mg·Kg⁻¹	500-210259-13 1/10/22 20:36 pg: 36, 53, 705	**Calculated result:*** 1.0 mg·Kg⁻¹ × DF10 × 1.0g / 1.0701g × 0.893 = 10.4 mg·Kg⁻¹ ✓

Formulas:

* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

** Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

*** %R = [(Measured Value) / (True Value)] x 100

**** %R = {(Spike sample result) - (Sample result)} / (Spike added)} x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

RMG SITE SOIL ANALYTICAL RESULTS SUMMARY
EUROFINS TESTAMERICA REPORT NO. 500-210259-1

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-IS-E01-211221	6010B	Arsenic	19		3.2	9.4	mg/Kg	19	
SSR-IS-E01-211221	6010B	Cadmium	2.4	B	0.034	0.19	mg/Kg	2.4	
SSR-IS-E01-211221	6010B	Chromium	390		4.6	9.4	mg/Kg	390	
SSR-IS-E01-211221	6010B	Cobalt	10		0.12	0.47	mg/Kg	10	
SSR-IS-E01-211221	6010B	Iron	270000		97	190	mg/Kg	270000	
SSR-IS-E01-211221	6010B	Lead	300		2.2	4.7	mg/Kg	300	
SSR-IS-E01-211221	6010B	Manganese	3700		1.4	9.4	mg/Kg	3700	
SSR-IS-E01-211221	6010B	Nickel	140		2.7	9.4	mg/Kg	140	
SSR-IS-E01-211221	7471B	Mercury	0.17		0.0055	0.017	mg/Kg	0.17	
SSR-IS-E01-211221	9045D	pH	9.5		0.2	0.2	SU	9.5	J
SSR-IS-E01-211221	9045D	Temperature	20.4		2	2	°C	20.4	
SSR-IS-E02-211221	6010B	Arsenic	15		3.2	9.5	mg/Kg	15	
SSR-IS-E02-211221	6010B	Cadmium	2	B	0.034	0.19	mg/Kg	2.0	
SSR-IS-E02-211221	6010B	Chromium	490		4.7	9.5	mg/Kg	490	
SSR-IS-E02-211221	6010B	Cobalt	11		1.2	4.7	mg/Kg	11	
SSR-IS-E02-211221	6010B	Iron	220000		99	190	mg/Kg	220000	
SSR-IS-E02-211221	6010B	Lead	160		2.2	4.7	mg/Kg	160	
SSR-IS-E02-211221	6010B	Manganese	4900		1.4	9.5	mg/Kg	4900	
SSR-IS-E02-211221	6010B	Nickel	160		2.8	9.5	mg/Kg	160	
SSR-IS-E02-211221	7471B	Mercury	0.16		0.0053	0.016	mg/Kg	0.16	
SSR-IS-E02-211221	9045D	pH	9.1		0.2	0.2	SU	9.1	J
SSR-IS-E02-211221	9045D	Temperature	20.4		2	2	°C	20.4	
SSR-IS-O01-211221	6010B	Arsenic	15		3.7	11	mg/Kg	15	
SSR-IS-O01-211221	6010B	Cadmium	24	B	0.039	0.21	mg/Kg	24	
SSR-IS-O01-211221	6010B	Chromium	320		5.3	11	mg/Kg	320	
SSR-IS-O01-211221	6010B	Cobalt	290		1.4	5.4	mg/Kg	290	
SSR-IS-O01-211221	6010B	Iron	51000		110	210	mg/Kg	51000	
SSR-IS-O01-211221	6010B	Lead	1100		2.5	5.4	mg/Kg	1100	
SSR-IS-O01-211221	6010B	Manganese	1900		0.16	1.1	mg/Kg	1900	
SSR-IS-O01-211221	6010B	Nickel	270		3.1	11	mg/Kg	270	
SSR-IS-O01-211221	7471B	Mercury	1.8		0.03	0.089	mg/Kg	1.8	
SSR-IS-O01-211221	9045D	pH	7.8		0.2	0.2	SU	7.8	J
SSR-IS-O01-211221	9045D	Temperature	20.5		2	2	°C	20.5	

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-IS-O02-211221	6010B	Arsenic	15		3.4	10	mg/Kg	15	
SSR-IS-O02-211221	6010B	Cadmium	25	B	0.036	0.2	mg/Kg	25	
SSR-IS-O02-211221	6010B	Chromium	290		4.9	10	mg/Kg	290	
SSR-IS-O02-211221	6010B	Cobalt	340		1.3	5	mg/Kg	340	
SSR-IS-O02-211221	6010B	Iron	40000		10	20	mg/Kg	40000	
SSR-IS-O02-211221	6010B	Lead	1400		2.3	5	mg/Kg	1400	
SSR-IS-O02-211221	6010B	Manganese	1600		0.14	1	mg/Kg	1600	
SSR-IS-O02-211221	6010B	Nickel	260		2.9	10	mg/Kg	260	
SSR-IS-O02-211221	7471B	Mercury	1.7		0.029	0.087	mg/Kg	1.7	
SSR-IS-O02-211221	9045D	pH	7.7		0.2	0.2	SU	7.7	J
SSR-IS-O02-211221	9045D	Temperature	19.6		2	2	°C	19.6	
SSR-IS-P01-211221	6010B	Arsenic	14		3.4	10	mg/Kg	14	
SSR-IS-P01-211221	6010B	Cadmium	11	B	0.036	0.2	mg/Kg	11	
SSR-IS-P01-211221	6010B	Chromium	300		5	10	mg/Kg	300	
SSR-IS-P01-211221	6010B	Cobalt	150		1.3	5	mg/Kg	150	
SSR-IS-P01-211221	6010B	Iron	49000		100	200	mg/Kg	49000	
SSR-IS-P01-211221	6010B	Lead	750		2.3	5	mg/Kg	750	
SSR-IS-P01-211221	6010B	Manganese	1300		0.15	1	mg/Kg	1300	
SSR-IS-P01-211221	6010B	Nickel	250		2.9	10	mg/Kg	250	
SSR-IS-P01-211221	7471B	Mercury	0.92		0.011	0.033	mg/Kg	0.92	
SSR-IS-P01-211221	9045D	pH	8.5		0.2	0.2	SU	8.5	J
SSR-IS-P01-211221	9045D	Temperature	19.6		2	2	°C	19.6	
SSR-IS-P02-211221	6010B	Arsenic	20		3.6	10	mg/Kg	20	
SSR-IS-P02-211221	6010B	Cadmium	19	B	0.038	0.21	mg/Kg	19	
SSR-IS-P02-211221	6010B	Chromium	370		5.2	10	mg/Kg	370	
SSR-IS-P02-211221	6010B	Cobalt	190		6.8	26	mg/Kg	190	
SSR-IS-P02-211221	6010B	Iron	58000		110	210	mg/Kg	58000	
SSR-IS-P02-211221	6010B	Lead	1000		2.4	5.2	mg/Kg	1000	
SSR-IS-P02-211221	6010B	Manganese	1500		0.15	1	mg/Kg	1500	
SSR-IS-P02-211221	6010B	Nickel	310		3	10	mg/Kg	310	
SSR-IS-P02-211221	7471B	Mercury	1.8		0.028	0.086	mg/Kg	1.8	
SSR-IS-P02-211221	9045D	pH	7.9		0.2	0.2	SU	7.9	J
SSR-IS-P02-211221	9045D	Temperature	19.9		2	2	°C	19.9	

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-RS-BLANK-211221	6010B	Arsenic	0.0037	U F1 F2	0.0037	0.01	mg/L	0.010	U
SSR-RS-BLANK-211221	6010B	Cadmium	0.00046	J F1 F2	0.00043	0.002	mg/L	0.00046	J
SSR-RS-BLANK-211221	6010B	Chromium	0.0017	U F1 F2	0.0017	0.01	mg/L	0.010	U
SSR-RS-BLANK-211221	6010B	Cobalt	0.00078	U F1 F2	0.00078	0.005	mg/L	0.0050	U
SSR-RS-BLANK-211221	6010B	Iron	0.082	U	0.082	0.2	mg/L	20.0	U
SSR-RS-BLANK-211221	6010B	Lead	0.0078	F1 F2	0.0027	0.005	mg/L	0.0078	J+
SSR-RS-BLANK-211221	6010B	Manganese	0.0039	J F1 F2	0.0023	0.01	mg/L	0.0039	J
SSR-RS-BLANK-211221	6010B	Nickel	0.0019	U F1 F2	0.0019	0.01	mg/L	0.010	U
SSR-RS-BLANK-211221	7470A	Mercury	0.000098	U	0.000098	0.0002	mg/L	0.00020	U
SSR-SS-D01-211221	6010B	Arsenic	16		3.7	11	mg/Kg	16	
SSR-SS-D01-211221	6010B	Cadmium	21	B	0.039	0.22	mg/Kg	21	
SSR-SS-D01-211221	6010B	Chromium	550		5.4	11	mg/Kg	550	
SSR-SS-D01-211221	6010B	Cobalt	10		1.4	5.5	mg/Kg	10	
SSR-SS-D01-211221	6010B	Iron	180000		110	220	mg/Kg	180000	
SSR-SS-D01-211221	6010B	Lead	1800		2.5	5.5	mg/Kg	1800	
SSR-SS-D01-211221	6010B	Manganese	10000		1.6	11	mg/Kg	10000	
SSR-SS-D01-211221	6010B	Nickel	130		3.2	11	mg/Kg	130	
SSR-SS-D01-211221	7471B	Mercury	1.3		0.032	0.097	mg/Kg	1.3	
SSR-SS-D01-211221	8082A	PCB-1016	0.16	U	0.16	0.4	mg/Kg	0.40	U
SSR-SS-D01-211221	8082A	PCB-1221	0.16	U	0.16	0.4	mg/Kg	0.40	U
SSR-SS-D01-211221	8082A	PCB-1232	0.11	U	0.11	0.4	mg/Kg	0.40	U
SSR-SS-D01-211221	8082A	PCB-1242	0.15	U	0.15	0.4	mg/Kg	0.40	U
SSR-SS-D01-211221	8082A	PCB-1248	1.1		0.19	0.4	mg/Kg	1.1	J+
SSR-SS-D01-211221	8082A	PCB-1254	0.13	U	0.13	0.4	mg/Kg	0.40	U
SSR-SS-D01-211221	8082A	PCB-1260	0.15	U	0.15	0.4	mg/Kg	0.40	U
SSR-SS-D01-211221	8082A	Polychlorinated biphenyls, Total	1.1		0.11	0.4	mg/Kg	1.1	J
SSR-SS-D01-211221	9045D	pH	8.5		0.2	0.2	SU	8.5	J
SSR-SS-D01-211221	9045D	Temperature	20.5		2	2	°C	20.5	
SSR-SS-F01-211221	6010B	Arsenic	15		3.8	11	mg/Kg	15	
SSR-SS-F01-211221	6010B	Cadmium	3.2	B	0.04	0.22	mg/Kg	3.2	
SSR-SS-F01-211221	6010B	Chromium	800		5.5	11	mg/Kg	800	
SSR-SS-F01-211221	6010B	Cobalt	10		1.5	5.6	mg/Kg	10	
SSR-SS-F01-211221	6010B	Iron	200000		120	220	mg/Kg	200000	

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-F01-211221	6010B	Lead	290		2.6	5.6	mg/Kg	290	
SSR-SS-F01-211221	6010B	Manganese	6100		1.6	11	mg/Kg	6100	
SSR-SS-F01-211221	6010B	Nickel	140		3.3	11	mg/Kg	140	
SSR-SS-F01-211221	7471B	Mercury	0.18		0.0058	0.017	mg/Kg	0.18	
SSR-SS-F01-211221	8082A	PCB-1016	0.073	U	0.073	0.19	mg/Kg	0.19	U
SSR-SS-F01-211221	8082A	PCB-1221	0.073	U	0.073	0.19	mg/Kg	0.19	U
SSR-SS-F01-211221	8082A	PCB-1232	0.05	U	0.05	0.19	mg/Kg	0.19	U
SSR-SS-F01-211221	8082A	PCB-1242	0.072	U	0.072	0.19	mg/Kg	0.19	U
SSR-SS-F01-211221	8082A	PCB-1248	0.86		0.088	0.19	mg/Kg	0.86	J+
SSR-SS-F01-211221	8082A	PCB-1254	0.063	U	0.063	0.19	mg/Kg	0.19	U
SSR-SS-F01-211221	8082A	PCB-1260	0.07	U	0.07	0.19	mg/Kg	0.19	U
SSR-SS-F01-211221	8082A	Polychlorinated biphenyls, Total	0.86		0.05	0.19	mg/Kg	0.86	J
SSR-SS-F01-211221	9045D	pH	9		0.2	0.2	SU	9.0	J
SSR-SS-F01-211221	9045D	Temperature	20.4		2	2	°C	20.4	
SSR-SS-G01-211221	6010B	Arsenic	15		3.8	11	mg/Kg	15	
SSR-SS-G01-211221	6010B	Cadmium	1.7	B	0.04	0.22	mg/Kg	1.7	J+
SSR-SS-G01-211221	6010B	Chromium	310		5.5	11	mg/Kg	310	
SSR-SS-G01-211221	6010B	Cobalt	9.6		0.15	0.56	mg/Kg	9.6	
SSR-SS-G01-211221	6010B	Iron	240000		120	220	mg/Kg	240000	
SSR-SS-G01-211221	6010B	Lead	94		2.6	5.6	mg/Kg	94	
SSR-SS-G01-211221	6010B	Manganese	3000		1.6	11	mg/Kg	3000	
SSR-SS-G01-211221	6010B	Nickel	110		3.2	11	mg/Kg	110	
SSR-SS-G01-211221	7471B	Mercury	0.006	U	0.006	0.018	mg/Kg	0.018	U
SSR-SS-G01-211221	8082A	PCB-1016	0.0073	U	0.0073	0.019	mg/Kg	0.019	U
SSR-SS-G01-211221	8082A	PCB-1221	0.0073	U	0.0073	0.019	mg/Kg	0.019	U
SSR-SS-G01-211221	8082A	PCB-1232	0.005	U	0.005	0.019	mg/Kg	0.019	U
SSR-SS-G01-211221	8082A	PCB-1242	0.0072	U	0.0072	0.019	mg/Kg	0.019	U
SSR-SS-G01-211221	8082A	PCB-1248	0.083		0.0088	0.019	mg/Kg	0.083	J+
SSR-SS-G01-211221	8082A	PCB-1254	0.0063	U	0.0063	0.019	mg/Kg	0.019	U
SSR-SS-G01-211221	8082A	PCB-1260	0.007	U	0.007	0.019	mg/Kg	0.019	U
SSR-SS-G01-211221	8082A	Polychlorinated biphenyls, Total	0.083		0.005	0.019	mg/Kg	0.083	J
SSR-SS-G01-211221	9045D	pH	8.3		0.2	0.2	SU	8.3	J
SSR-SS-G01-211221	9045D	Temperature	20.4		2	2	°C	20.4	

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-D02-211221	6010B	Arsenic	15	F1 F2	3.4	9.9	mg/Kg	15	J
SSR-ST-D02-211221	6010B	Cadmium	4.6	B F1 F2	0.036	0.2	mg/Kg	4.6	J-
SSR-ST-D02-211221	6010B	Chromium	330		4.9	9.9	mg/Kg	330	J
SSR-ST-D02-211221	6010B	Cobalt	4.6	J F1 F2	1.3	4.9	mg/Kg	4.6	J-
SSR-ST-D02-211221	6010B	Iron	250000		100	200	mg/Kg	250000	
SSR-ST-D02-211221	6010B	Lead	280	F2	2.3	4.9	mg/Kg	280	
SSR-ST-D02-211221	6010B	Manganese	8200		1.4	9.9	mg/Kg	8200	J
SSR-ST-D02-211221	6010B	Nickel	24	F1 F2	2.9	9.9	mg/Kg	24	J-
SSR-ST-D02-211221	7471B	Mercury	0.066		0.006	0.018	mg/Kg	0.066	
SSR-ST-D02-211221	8082A	PCB-1016	0.0072	U	0.0072	0.018	mg/Kg	0.018	U
SSR-ST-D02-211221	8082A	PCB-1221	0.0072	U	0.0072	0.018	mg/Kg	0.018	U
SSR-ST-D02-211221	8082A	PCB-1232	0.0049	U	0.0049	0.018	mg/Kg	0.018	U
SSR-ST-D02-211221	8082A	PCB-1242	0.0071	U	0.0071	0.018	mg/Kg	0.018	U
SSR-ST-D02-211221	8082A	PCB-1248	0.077		0.0087	0.018	mg/Kg	0.077	J+
SSR-ST-D02-211221	8082A	PCB-1254	0.0062	U	0.0062	0.018	mg/Kg	0.018	U
SSR-ST-D02-211221	8082A	PCB-1260	0.0069	U	0.0069	0.018	mg/Kg	0.018	U
SSR-ST-D02-211221	8082A	Polychlorinated biphenyls, Total	0.077		0.0049	0.018	mg/Kg	0.077	J
SSR-ST-D02-211221	9045D	pH	8		0.2	0.2	SU	8.0	J
SSR-ST-D02-211221	9045D	Temperature	20.4		2	2	°C	20.4	
SSR-ST-D03-211221	6010B	Arsenic	16		3.2	9.5	mg/Kg	16	
SSR-ST-D03-211221	6010B	Cadmium	3.4	B	0.034	0.19	mg/Kg	3.4	
SSR-ST-D03-211221	6010B	Chromium	380		4.7	9.5	mg/Kg	380	
SSR-ST-D03-211221	6010B	Cobalt	12		1.2	4.7	mg/Kg	12	
SSR-ST-D03-211221	6010B	Iron	220000		99	190	mg/Kg	220000	
SSR-ST-D03-211221	6010B	Lead	340		2.2	4.7	mg/Kg	340	
SSR-ST-D03-211221	6010B	Manganese	7200		1.4	9.5	mg/Kg	7200	
SSR-ST-D03-211221	6010B	Nickel	87		2.8	9.5	mg/Kg	87	
SSR-ST-D03-211221	7471B	Mercury	0.32		0.0059	0.018	mg/Kg	0.32	
SSR-ST-D03-211221	8082A	PCB-1016	0.72	U	0.72	1.8	mg/Kg	1.8	U
SSR-ST-D03-211221	8082A	PCB-1221	0.72	U	0.72	1.8	mg/Kg	1.8	U
SSR-ST-D03-211221	8082A	PCB-1232	0.5	U	0.5	1.8	mg/Kg	1.8	U
SSR-ST-D03-211221	8082A	PCB-1242	0.71	U	0.71	1.8	mg/Kg	1.8	U
SSR-ST-D03-211221	8082A	PCB-1248	21		0.87	1.8	mg/Kg	21	J+

RMG SITE SOIL ANALYTICAL RESULTS SUMMARY
EUROFINS TESTAMERICA REPORT NO. 500-210259-1

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-D03-211221	8082A	PCB-1254	0.62	U	0.62	1.8	mg/Kg	1.8	U
SSR-ST-D03-211221	8082A	PCB-1260	0.69	U	0.69	1.8	mg/Kg	1.8	U
SSR-ST-D03-211221	8082A	Polychlorinated biphenyls, Total	21		0.5	1.8	mg/Kg	21	J
SSR-ST-D03-211221	9045D	pH	8.9		0.2	0.2	SU	8.9	J
SSR-ST-D03-211221	9045D	Temperature	20.5		2	2	°C	20.5	
SSR-ST-D04-211221	6010B	Arsenic	20		3.4	10	mg/Kg	20	
SSR-ST-D04-211221	6010B	Cadmium	2.2	B	0.036	0.2	mg/Kg	2.2	
SSR-ST-D04-211221	6010B	Chromium	790		5	10	mg/Kg	790	
SSR-ST-D04-211221	6010B	Cobalt	12		1.3	5	mg/Kg	12	
SSR-ST-D04-211221	6010B	Iron	260000		100	200	mg/Kg	260000	
SSR-ST-D04-211221	6010B	Lead	260		2.3	5	mg/Kg	260	
SSR-ST-D04-211221	6010B	Manganese	9100		1.5	10	mg/Kg	9100	
SSR-ST-D04-211221	6010B	Nickel	67		2.9	10	mg/Kg	67	
SSR-ST-D04-211221	7471B	Mercury	0.11		0.0061	0.018	mg/Kg	0.11	
SSR-ST-D04-211221	8082A	PCB-1016	0.038	U	0.038	0.096	mg/Kg	0.096	U
SSR-ST-D04-211221	8082A	PCB-1221	0.038	U	0.038	0.096	mg/Kg	0.096	U
SSR-ST-D04-211221	8082A	PCB-1232	0.026	U	0.026	0.096	mg/Kg	0.096	U
SSR-ST-D04-211221	8082A	PCB-1242	0.037	U	0.037	0.096	mg/Kg	0.096	U
SSR-ST-D04-211221	8082A	PCB-1248	1.4		0.046	0.096	mg/Kg	1.4	J+
SSR-ST-D04-211221	8082A	PCB-1254	0.032	U	0.032	0.096	mg/Kg	0.096	U
SSR-ST-D04-211221	8082A	PCB-1260	0.036	U	0.036	0.096	mg/Kg	0.096	U
SSR-ST-D04-211221	8082A	Polychlorinated biphenyls, Total	1.4		0.026	0.096	mg/Kg	1.4	J
SSR-ST-D04-211221	9045D	pH	8.7		0.2	0.2	SU	8.7	J
SSR-ST-D04-211221	9045D	Temperature	20.4		2	2	°C	20.4	
SSR-ST-F02-211221	6010B	Arsenic	7.4	J	3.6	11	mg/Kg	7.4	J
SSR-ST-F02-211221	6010B	Cadmium	1.5	B	0.038	0.21	mg/Kg	1.5	J+
SSR-ST-F02-211221	6010B	Chromium	340		5.2	11	mg/Kg	340	
SSR-ST-F02-211221	6010B	Cobalt	4.1	J	1.4	5.3	mg/Kg	4.1	J
SSR-ST-F02-211221	6010B	Iron	120000		110	210	mg/Kg	120000	
SSR-ST-F02-211221	6010B	Lead	66		2.4	5.3	mg/Kg	66	J+
SSR-ST-F02-211221	6010B	Manganese	4700		1.5	11	mg/Kg	4700	
SSR-ST-F02-211221	6010B	Nickel	45		3.1	11	mg/Kg	45	
SSR-ST-F02-211221	7471B	Mercury	0.062		0.0059	0.018	mg/Kg	0.062	

RMG SITE SOIL ANALYTICAL RESULTS SUMMARY
EUROFINS TESTAMERICA REPORT NO. 500-210259-1

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-F02-211221	8082A	PCB-1016	0.0069	U	0.0069	0.018	mg/Kg	0.018	U
SSR-ST-F02-211221	8082A	PCB-1221	0.0069	U	0.0069	0.018	mg/Kg	0.018	U
SSR-ST-F02-211221	8082A	PCB-1232	0.0048	U	0.0048	0.018	mg/Kg	0.018	U
SSR-ST-F02-211221	8082A	PCB-1242	0.0069	U	0.0069	0.018	mg/Kg	0.018	U
SSR-ST-F02-211221	8082A	PCB-1248	0.094		0.0084	0.018	mg/Kg	0.094	J+
SSR-ST-F02-211221	8082A	PCB-1254	0.006	U	0.006	0.018	mg/Kg	0.018	U
SSR-ST-F02-211221	8082A	PCB-1260	0.0067	U	0.0067	0.018	mg/Kg	0.018	U
SSR-ST-F02-211221	8082A	Polychlorinated biphenyls, Total	0.094		0.0048	0.018	mg/Kg	0.094	J
SSR-ST-F02-211221	9045D	pH	9.5		0.2	0.2	SU	9.5	J
SSR-ST-F02-211221	9045D	Temperature	20.5		2	2	°C	20.5	
SSR-ST-F03-211221	6010B	Arsenic	11		3.7	11	mg/Kg	11	
SSR-ST-F03-211221	6010B	Cadmium	1.9	B	0.039	0.21	mg/Kg	1.9	
SSR-ST-F03-211221	6010B	Chromium	860		5.3	11	mg/Kg	860	
SSR-ST-F03-211221	6010B	Cobalt	7.9		1.4	5.4	mg/Kg	7.9	
SSR-ST-F03-211221	6010B	Iron	130000		110	210	mg/Kg	130000	
SSR-ST-F03-211221	6010B	Lead	230		2.5	5.4	mg/Kg	230	
SSR-ST-F03-211221	6010B	Manganese	9400		1.6	11	mg/Kg	9400	
SSR-ST-F03-211221	6010B	Nickel	100		3.1	11	mg/Kg	100	
SSR-ST-F03-211221	7471B	Mercury	0.18		0.0057	0.017	mg/Kg	0.18	
SSR-ST-F03-211221	8082A	PCB-1016	0.069	U	0.069	0.18	mg/Kg	0.18	U
SSR-ST-F03-211221	8082A	PCB-1221	0.069	U	0.069	0.18	mg/Kg	0.18	U
SSR-ST-F03-211221	8082A	PCB-1232	0.048	U	0.048	0.18	mg/Kg	0.18	U
SSR-ST-F03-211221	8082A	PCB-1242	0.068	U	0.068	0.18	mg/Kg	0.18	U
SSR-ST-F03-211221	8082A	PCB-1248	0.52		0.084	0.18	mg/Kg	0.52	J+
SSR-ST-F03-211221	8082A	PCB-1254	0.06	U	0.06	0.18	mg/Kg	0.18	U
SSR-ST-F03-211221	8082A	PCB-1260	0.066	U	0.066	0.18	mg/Kg	0.18	U
SSR-ST-F03-211221	8082A	Polychlorinated biphenyls, Total	0.52		0.048	0.18	mg/Kg	0.52	J
SSR-ST-F03-211221	9045D	pH	8.5		0.2	0.2	SU	8.5	J
SSR-ST-F03-211221	9045D	Temperature	20.5		2	2	°C	20.5	
SSR-ST-G02-211221	6010B	Arsenic	13		3.5	10	mg/Kg	13	
SSR-ST-G02-211221	6010B	Cadmium	2	B	0.037	0.21	mg/Kg	2.0	
SSR-ST-G02-211221	6010B	Chromium	300		5.1	10	mg/Kg	300	
SSR-ST-G02-211221	6010B	Cobalt	6		1.3	5.1	mg/Kg	6.0	

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-G02-211221	6010B	Iron	150000		110	210	mg/Kg	150000	
SSR-ST-G02-211221	6010B	Lead	220		2.4	5.1	mg/Kg	220	
SSR-ST-G02-211221	6010B	Manganese	5300		1.5	10	mg/Kg	5300	
SSR-ST-G02-211221	6010B	Nickel	65		3	10	mg/Kg	65	J
SSR-ST-G02-211221	7471B	Mercury	0.0063	J	0.0057	0.017	mg/Kg	0.0063	J
SSR-ST-G02-211221	8082A	PCB-1016	0.007	U	0.007	0.018	mg/Kg	0.018	U
SSR-ST-G02-211221	8082A	PCB-1221	0.007	U	0.007	0.018	mg/Kg	0.018	U
SSR-ST-G02-211221	8082A	PCB-1232	0.0049	U	0.0049	0.018	mg/Kg	0.018	U
SSR-ST-G02-211221	8082A	PCB-1242	0.007	U	0.007	0.018	mg/Kg	0.018	U
SSR-ST-G02-211221	8082A	PCB-1248	0.2		0.0085	0.018	mg/Kg	0.20	J+
SSR-ST-G02-211221	8082A	PCB-1254	0.0061	U	0.0061	0.018	mg/Kg	0.018	U
SSR-ST-G02-211221	8082A	PCB-1260	0.0068	U	0.0068	0.018	mg/Kg	0.018	U
SSR-ST-G02-211221	8082A	Polychlorinated biphenyls, Total	0.2		0.0049	0.018	mg/Kg	0.20	J
SSR-ST-G02-211221	9045D	pH	8.6		0.2	0.2	SU	8.6	J
SSR-ST-G02-211221	9045D	Temperature	20.4		2	2	°C	20.4	
SSR-ST-G02-211221-D	6010B	Arsenic	14		3.4	10	mg/Kg	14	
SSR-ST-G02-211221-D	6010B	Cadmium	1.8	B	0.036	0.2	mg/Kg	1.8	
SSR-ST-G02-211221-D	6010B	Chromium	370		4.9	10	mg/Kg	370	
SSR-ST-G02-211221-D	6010B	Cobalt	9.1		1.3	5	mg/Kg	9.1	
SSR-ST-G02-211221-D	6010B	Iron	170000		100	200	mg/Kg	170000	
SSR-ST-G02-211221-D	6010B	Lead	260		2.3	5	mg/Kg	260	
SSR-ST-G02-211221-D	6010B	Manganese	4900		1.4	10	mg/Kg	4900	
SSR-ST-G02-211221-D	6010B	Nickel	140		2.9	10	mg/Kg	140	J
SSR-ST-G02-211221-D	7471B	Mercury	0.16		0.0057	0.017	mg/Kg	0.16	J
SSR-ST-G02-211221-D	8082A	PCB-1016	0.007	U	0.007	0.018	mg/Kg	0.018	U
SSR-ST-G02-211221-D	8082A	PCB-1221	0.007	U	0.007	0.018	mg/Kg	0.018	U
SSR-ST-G02-211221-D	8082A	PCB-1232	0.0048	U	0.0048	0.018	mg/Kg	0.018	U
SSR-ST-G02-211221-D	8082A	PCB-1242	0.0069	U	0.0069	0.018	mg/Kg	0.018	U
SSR-ST-G02-211221-D	8082A	PCB-1248	0.18		0.0084	0.018	mg/Kg	0.18	J+
SSR-ST-G02-211221-D	8082A	PCB-1254	0.006	U	0.006	0.018	mg/Kg	0.018	U
SSR-ST-G02-211221-D	8082A	PCB-1260	0.0067	U	0.0067	0.018	mg/Kg	0.018	U
SSR-ST-G02-211221-D	8082A	Polychlorinated biphenyls, Total	0.18		0.0048	0.018	mg/Kg	0.18	J
SSR-ST-G02-211221-D	9045D	pH	8.6		0.2	0.2	SU	8.6	J

RMG SITE SOIL ANALYTICAL RESULTS SUMMARY
EUROFINS TESTAMERICA REPORT NO. 500-210259-1

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-G02-211221-D	9045D	Temperature	20.4		2	2	°C	20.4	
SSR-ST-G03-211221	6010B	Arsenic	24		3.6	10	mg/Kg	24	
SSR-ST-G03-211221	6010B	Cadmium	32	B	0.038	0.21	mg/Kg	32	
SSR-ST-G03-211221	6010B	Chromium	530		5.2	10	mg/Kg	530	
SSR-ST-G03-211221	6010B	Cobalt	44		1.4	5.2	mg/Kg	44	
SSR-ST-G03-211221	6010B	Iron	310000		110	210	mg/Kg	310000	
SSR-ST-G03-211221	6010B	Lead	410		2.4	5.2	mg/Kg	410	
SSR-ST-G03-211221	6010B	Manganese	5500		1.5	10	mg/Kg	5500	
SSR-ST-G03-211221	6010B	Nickel	320		3	10	mg/Kg	320	
SSR-ST-G03-211221	7471B	Mercury	1.3		0.029	0.088	mg/Kg	1.3	
SSR-ST-G03-211221	8082A	PCB-1016	0.15	U	0.15	0.37	mg/Kg	0.37	U
SSR-ST-G03-211221	8082A	PCB-1221	0.15	U	0.15	0.37	mg/Kg	0.37	U
SSR-ST-G03-211221	8082A	PCB-1232	0.1	U	0.1	0.37	mg/Kg	0.37	U
SSR-ST-G03-211221	8082A	PCB-1242	0.14	U	0.14	0.37	mg/Kg	0.37	U
SSR-ST-G03-211221	8082A	PCB-1248	2.8		0.18	0.37	mg/Kg	2.8	J+
SSR-ST-G03-211221	8082A	PCB-1254	0.13	U	0.13	0.37	mg/Kg	0.37	U
SSR-ST-G03-211221	8082A	PCB-1260	0.14	U	0.14	0.37	mg/Kg	0.37	U
SSR-ST-G03-211221	8082A	Polychlorinated biphenyls, Total	2.8		0.1	0.37	mg/Kg	2.8	J
SSR-ST-G03-211221	9045D	pH	8.1		0.2	0.2	SU	8.1	J
SSR-ST-G03-211221	9045D	Temperature	20.4		2	2	°C	20.4	

DATA VALIDATION CHECKLIST – STAGE 3

Site Name	RMG SITE		**Project No.**	103Z328406002
Data Reviewer (signature and date)	Bruce Welch January 27, 2022		**Technical Reviewer (signature and date)**	Harry N. Ellis III 31 January 2022
Laboratory Report No.	500-210259-2		**Laboratory**	Eurofins TestAmerica – Sacramento, CA
Analyses	Dioxins and furans by EPA SW-846 Method 8290A			
Samples and Matrix	Eleven solid samples including one field duplicate solid sample			
Collection Date(s)	December 21, 2021			
Field Duplicate Pairs	SSR-ST-G02-211221 / SSR-ST-G02-211221-D			
Field QC Blanks	None			

INTRODUCTION

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *National Functional Guidelines (NFG) for High-Resolution Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection of the data was required for this data package. The results may be used as qualified based on the findings of this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

Instrument Performance Checks:

Within Criteria	Exceedance/Notes
Y	

Initial Calibration:

Within Criteria	Exceedance/Notes
Y	

Continuing Calibration:

Within Criteria	Exceedance/Notes
N	The continuing calibration verification (CCV) solution 320-559365/18 that was analyzed on January 20, 2022, at 21:25 had a 22.4% difference (%D) for 2,3,4,6,7,8-TCDD, and the bracketing CCV solution 320-558910/14 that was analyzed on January 19, 2022, at 02:55 had a -22.0 %D for 2,3,4,6,7,8-HxCDF and a -21.6 %D for 1,2,3,4,7,8-HxCDD, and the %D for all of these analytes exceeded the laboratory 20 %D acceptance limit; however, no qualifications were applied to the results for these analytes because the %D values met the NFG 35 %D acceptance limit.

Calibration Verification:

Within Criteria	Exceedance/Notes
Y	

Method blanks:

Within Criteria	Exceedance/Notes
N	The method blank 320-555673/1-A contained 0.181 picograms per gram (pg/g) of 1,2,3,4,7,8-HxCDD and total HxCDD, 0.0592 pg/g of 1,2,3,7,8,9-HxCDF and total HxCDF, 0.112 pg/g of 1,2,3,4,6,7,8-HpCDD, 0.224 pg/g of total HpCDD, 0.0904 pg/g of 1,2,3,4,6,7,8-HpCDF and total HpCDF, 0.470 pg/g of OCDD, 0.191 pg/g of OCDF, and the concentrations of these analytes were all less than half of the reporting limit (RL) values. The concentration of 1,2,3,4,7,8-HxCDD in samples SSR-SS-D01-211221, SSR-SS-F01-211221, SSR-ST-D02-211221, SSR-ST-D03-211221, SSR-ST-D04-211221, SSR-ST-F03-211221, and SSR-ST-G02-211221 was less than the RL; therefore, the 1,2,3,4,7,8-HxCDD result for these samples was reported at the RL and qualified nondetect (flagged U). The concentration of 1,2,3,7,8,9-HxCDF in sample SSR-ST-D02-211221 was less than the RL; therefore, the 1,2,3,7,8,9-HxCDF results for sample SSR-ST-D02-211221 were reported at the RL and qualified nondetect (flagged U). No qualifications were applied to the total HxCDD, total HxCDF, 1,2,3,4,6,7,8-HpCDD, total HpCDD, 1,2,3,4,6,7,8-HpCDF, total HpCDF, OCDD, and OCDF results that exceeded the RL and were greater than 10x the concentration of the analyte in the method blank or nondetect.

Field blanks:

Within Criteria	Exceedance/Notes
NA	

Interference Check Samples (ICS) (ICP metals only):

Within Criteria	Exceedance/Notes
NA	

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
N	The recovery for 13C-1,2,3,4,7,8-HxCDF for samples SSR-SS-D01-211221, SSR-ST-D04-211221, SSR-SS-F01-211221, SSR-ST-F03-211221, SSR-SS-G01-211221 exceeded the laboratory 135% acceptance limit; therefore, the 1,2,3,4,7,8-HxCDF result for these samples was qualified as estimated, possibly biased high (flagged J+), and no qualifications were applied to the 1,2,3,7,8,9-HxCDF nondetect results for these samples. While no qualifications were applied, the data user should note the 13C-OCDD had a -33.0 %D for the CCV solution 320-558910/14.

MS/MSD:

Within Criteria	Exceedance/Notes
NA	The MS/MSD percent recoveries for OCDD were not evaluated because the concentration of OCDD in the parent sample is greater than four times the spiked concentration of OCDD in the matrix spike.

Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	

Serial dilutions:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
Y	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	All samples were analyzed undiluted.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
Y	

Second column confirmation (GC and HPLC analyses only):

Within Criteria	Exceedance/Notes
Y	

Internal Standards:

Within Criteria	Exceedance/Notes
Y	

Target analyte identification:

Within Criteria	Exceedance/Notes
N	All target analyte identification criteria were met except for ion abundance ratios. A review of the raw instrument data for the samples listed below showed the ion abundance ratios for the listed analyte was outside of the laboratory specified control limits; therefore, the results for analytes listed below were reported at the estimated maximum possible concentration (EMPC) values by the laboratory and subsequently qualified as estimated (flagged J). Note that the sample results that were raised to the RL and qualified as nondetect due to method blank contamination were not further qualified. **SSR-SS-D01-211221**: The results for 1,2,3,4,6,7,8-HpCDF, 1,2,3,6,7,8-HxCDF, total HpCDF, total HxCDF, total PeCDD, total TCDD, and total TCDF were qualified as estimated (flagged J). **SSR-ST-D02-211221**: The results for 1,2,3,4,6,7,8-HpCDF, 2,3,7,8-TCDD, total HpCDF, total HxCDF, total PeCDD, total PeCDF, and total TCDD were qualified as estimated (flagged J). **SSR-ST-D03-211221**: The results for 2,3,4,6,7,8-HxCDF, total HxCDD, total HxCDF, total PeCDD, and total TCDD were qualified as estimated (flagged J). **SSR-ST-D04-211221**: The results for 1,2,3,4,6,7,8-HpCDF, 1,2,3,7,8-PeCDF, total HpCDF, total HxCDD, total PeCDD, total PeCDF, and total TCDF were qualified as estimated (flagged J). **SSR-SS-F01-211221**: The results for 1,2,3,4,6,7,8-HpCDF, total HpCDF, total PeCDD, and total PeCDF were qualified as estimated (flagged J). **SSR-ST-F02-211221**: The results for total HpCDF, total HxCDF, total PeCDF, and total TCDF were qualified as estimated (flagged J). **SSR-ST-F03-211221**: The results for 1,2,3,7,8,9-HxCDD, total HxCDD, total PeCDD, and total PeCDF were qualified as estimated (flagged J). **SSR-SS-G01-211221**: The results for 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,7,8-PeCDF, total HpCDF, total HxCDF, total PeCDD, total PeCDF, and total TCDF were qualified as estimated (flagged J). Note the 1,2,3,4,7,8-HxCDF result was qualified with high bias due to a competing qualification from the labeled standard. **SSR-ST-G02-211221**: The results for 1,2,3,4,6,7,8-HpCDF, 1,2,3,6,7,8-HxCDD, total HpCDF, total HxCDD, total PeCDF, total TCDD, and total TCDF were qualified as estimated (flagged J). **SSR-ST-G02-211221-D**: The results for 1,2,3,4,6,7,8-HpCDF, 2,3,4,7,8-PeCDF, total HpCDF, total HxCDD, total PeCDD, total PeCDF, and total TCDF were qualified as estimated (flagged J). **SSR-ST-G03-211221**: The results for 1,2,3,4,6,7,8-HpCDF, total HpCDF, total PeCDD, total PeCDF, and total TCDD were qualified as estimated (flagged J).

Analyte quantitation and MDLs/RLs:

Within Criteria	Exceedance/Notes
N	The non-detect results were reported at the RL values in the laboratory PDF report, but the non-detect results were reported at the estimated detection limit (EDL) values in electronic data deliverable. Sample results between the EDL and the RL were flagged "J" by the laboratory. The non-detect results are reported at the RL values in the attached qualified data tables. The laboratory qualified the 1,2,3,4,6,7,8-HpCDF result for sample SSR-ST-G03-211221 as estimated because the concentration exceeded the calibration linear range; therefore, the 1,2,3,4,6,7,8-HpCDF result for sample SSR-ST-G03-211221 was qualified as estimated (flagged J). The 1,2,3,4,6,7,8-HpCDF RL for sample SSR-ST-G03-211221, the 2,3,7,8-TCDF RL for samples SSR-SS-D01-211221, SSR-SS-F01-211221, SSR-ST-D03-211221, SSR-ST-F03-211221, SSR-ST-G02-211221, SSR-ST-G02-211221-D, and SSR-ST-G03-211221, the total HpCDF RL for sample SSR-ST-G03-211221, and the total TCDF RL for sample SSR-SS-D01-211221 were raised by the laboratory because of elevated noise or sample matrix interferences; therefore, the results for these analytes for the associated samples were qualified as estimated (flagged J). Additionally, the 2,3,7,8-TCDF RLs for SSR-SS-G01-211221 and SSR-ST-G02-211221, and the 1,2,3,4,7,8,9-HpCDF RL for SSR-ST-G03-211221 were raised to the EDL by the laboratory because of elevated noise or sample matrix interferences; however, no qualifications were applied because the results for these analytes for the associated samples were nondetect.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [none]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (RL).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (RL), which is considered approximate due to deficiencies in one or more quality control criteria.

500-210259-2 Dioxins/Furans

ICV: 320-530930/9 10/4/2021 17:07
2,3,7,8-TCDD = 17.1% pg: 1389, 1390

$$RRF = \frac{49165511 \times 100\ pg \cdot \mu L^{-1}}{88285062 \times 40\ pg \cdot \mu L^{-1}} = 1.392$$ ✓

$$\%D = \left[\frac{1.392 - 1.188}{1.188}\right] \times 100 = 17.1\%$$ ✓

Opening CCV: 320-558910/2 1/18/2022 17:22
1,2,3,7,8-PeCDD = -8.7% pg: 1942, 1569, 1586

$$RRF = \frac{1826327 \times 100\ pg \cdot \mu L^{-1}}{3994592 \times 50\ pg \cdot \mu L^{-1}} = 0.9144$$ ✓

$$\%D = \left[\frac{0.9144 - 1.002}{1.002}\right] \times 100 = -8.7\%$$ ✓

Closing CCV: 320-558910/14 1/19/2022 02:55
2,3,4,6,7,8-HxCDF = -22.0% pg: 1615 - 1616

$$RRF = \frac{1486143 \times 100\ pg \cdot \mu L^{-1}}{\cancel{2770388}\ 3856718 \times 50\ pg \cdot \mu L^{-1}} = 0.7707$$ ✓

BW 1/27/2022

$$\%D = \left[\frac{0.7707 - 0.9878}{0.9878}\right] \times 100 = -22.0\%$$ ✓

1

500-210259-2 Dioxins / Furans

Labeled Standards : SSR-SS-D01-211221 1/18/2022 18:09

$HxCDF = 145\%$ pg: 217-218, 1202

$$C_x = \frac{2226852 \times 100\ pg \cdot \mu L^{-1}}{1456961 \times 1.0566} = 144.7\ pg \cdot \mu L^{-1}$$ ✓

$$\%R = \left(\frac{145\ pg \cdot \mu L^{-1}}{100\ pg \cdot \mu L^{-1}} \right) \times 100 = 145\%$$ ✓

Ion Abundance Ratio : SSR-SS-D01-211221 1/18/2022 18:09

2,3,7,8-TCDF = 0.74 pg: 221

$$\frac{1159048}{1574562} = 0.74$$ ✓

500-210259-2 Dioxins / Furans

MB : 320-555673/1-A 1/14/22 02:18

1,2,3,7,8,9-HxCDF = 0.0592 pg·g⁻¹ pg: 32, 1763, 981

$$C_x = \frac{17308 \times 100\,pg\cdot\mu L^{-1}}{71925580 \times 0.8136} = 0.0296\,pg\cdot\mu L^{-1}$$ ✓

$$C_x = \frac{0.0296\,pg\cdot\mu L^{-1} \times 20.0\,\mu L}{10.0\,g} = 0.0592\,pg\cdot g^{-1}$$ ✓

LCS : 320-555673/2-A 1/14/22 03:03

1,2,3,6,7,8-HxCDD = 107% pg: 1807, 32, 981, 1944

$$C_x = \frac{26278298 \times 100\,pg\cdot\mu L^{-1}}{502657756 \times 0.980} = 53.3\,pg\cdot\mu L^{-1}$$ ✓

$$C_x = \frac{53.3\,pg\cdot\mu L^{-1} \times 20\,\mu L}{10.0\,g} = 106.6\,pg\cdot g^{-1}$$ ✓

$$\%R = \left(\frac{106.6\,pg\cdot g^{-1}}{100\,pg\cdot g^{-1}}\right) \times 100 = 107\%$$ ✓

500-210259-2 Dioxins/Furans

MS: SSR-ST-D02-211221 1/14/22 09:03

OCDD = -21%, 1020 $pg \cdot g^{-1}$ pg: 33, 1838, 981, 1944

$$C_X = \frac{109206962 \times 200\ pg \cdot \mu L^{-1}}{43713988 \times 1.0735} = 465.5\ pg \cdot \mu L^{-1}$$ ✓

$$C_X = \frac{465.5\ pg \cdot \mu L^{-1} \times 20\ \mu L}{10.33\ g \times 0.887} = 1016.1\ pg \cdot g^{-1} \sim 1020\ pg \cdot g^{-1}$$ ✓

$$\%R = \left[\frac{1016.1 - 1062.8}{218}\right] \times 100 = -21.4\%$$ ✓

MSD: SSR-ST-D02-211221 1/14/2022 09:48

OCDD = -101 %, 841 $pg \cdot g^{-1}$ pg: 34, 1890

$$C_X = \frac{107570474 \times 200\ pg \cdot \mu L^{-1}}{52130700 \times 1.0735} = 384.4\ pg \cdot g^{-1}$$ ✓

$$C_X = \frac{384.4\ pg \cdot g^{-1} \times 20\ \mu L}{10.31\ g \times \cancel{1.0735}\ 0.887} = 841\ pg \cdot g^{-1}$$ ✓

BW 1/27/2022

$$\%R = \left[\frac{840.7 - 1062.8}{218}\right] \times 100 = -101\%$$ ✓

$$RPD = \left[\frac{1016.1 - 840.7}{\left(\frac{1016.1 + 840.7}{2}\right)}\right] \times 100 = 19\%$$ ✓

4

500-210259-2 Dioxin/Furans

Sample: SSR-ST-G03-211221 1/19/22 01:20

OCDF = 110 $pg \cdot g^{-1}$ pg: 21, 923, 1199, 1944

$$C_x = \frac{124272 \times 200 pg \cdot \mu L^{-1}}{395597 \times 1.2756} = 49.3\ pg \cdot \mu L^{-1}$$ ✓

$$C_x = \frac{49.3\ pg \cdot \mu L^{-1} \times 20.0\ \mu L}{10.29\ g \times 0.893} = 107.2\ pg \cdot g^{-1} \approx 110\ pg \cdot g^{-1}$$ ✓

Adjusted RL: SSR-ST-G02-211221-D 1/19/22 00:32

pg: 20, 1944

1,2,3,6,7,8 HxCDD = 5.5 $pg \cdot g^{-1}$

Unadjusted 1,2,3,6,7,8-HxCDD RL = 5.0 $pg \cdot g^{-1}$

Adjusted 1,2,3,6,7,8-HxCDD RL:

$$\frac{5.0\ pg \cdot g^{-1} \times 20\ \mu L \times 10 g \times DF 1}{20\ \mu L \times 10.07 g \times 0.905} = 5.5\ pg \cdot g^{-1}$$ ✓

210257 BW 2/3/22

500-~~210257~~-2 Dioxins/Furans

TEQ : SSR-ST-D03-211221 pg: 23

2,3,7,8-TCDD TEQ = 0.92 $pg \cdot g^{-1}$
Total TEQ = 18 $pg \cdot g^{-1}$

✓

2,3,7,8-TCDD TEQ : 0.92 $pg \cdot g^{-1}$ x TEF 1 = 0.92 $pg \cdot g^{-1}$

Total TEQ

$$\begin{bmatrix} 0.92 + 2.8 + 0.084 + 0.84 + 0.35 + 2.0 + 1.5 \\ + 1.5 + 0.61 + 0.28 + 0.31 + 3.5 + 0.57 + 0.052 \\ + 0.99 + 0.039 + 1.5 \end{bmatrix}$$

= 17.7 ~ 18 $pg \cdot g^{-1}$ ✓

500-210259-2

HRGC-HRMS Instrument:10D5

2,3,7,8-TCDF **Page: 981-1104**

Level	**1**	**2**	**3**	**4**	**5**
2,3,7,8-TCDF Concentration (pg/µL)	0.50	2.0	10.0	40.0	200.0
2,3,7,8-TCDF Response	819441	3698343	16409893	82886787	409636629
13C-2,3,7,8-TCDF Concentration (pg/µL)	100.0	100.0	100.0	100.0	100.0
13C-2,3,7,8-TCDF Response	175303769	181313086	174873275	195046786	198021705
Relative Response Factor (RRF)	0.9349	1.0199	0.9384	1.0624	1.0343

Std Dev:	0.0581	
Mean RRF:	0.9980	✓
%RSD:	5.8%	✓

Ion Abundance Ratio **Page: 222**

			Ions
2,3,7,8-TCDD	Ratio =	0.86	319.8965/321.8936
13C-2,3,7,8-TCDD	Ratio =	0.79	331.9368/333.9339

	Ions	Response			
2,3,7,8-TCDD	320	10820	=	0.86	✓
	322	12584			

	Ions	Response			
13C-2,3,7,8-TCDD	332	1864098	=	0.79	✓
	334	2362401			

Signal/Noise **Page: 221**

2,3,7,8-TCDF = 123

Height	143562	=	123	✓
Average Noise	1171			

SSR-SS-D01-211221

EDL **Page: 11, 222, 1944, 981,**

2,3,7,8-TCDD = 0.33 pg/g

$$\frac{(2.5) \times (2000pg) \times (174+101) \times DF1}{(10.23\ g) \times (231429 + 270095) \times 0.9906 \times 0.826} = 0.33\ pg/g$$ ✓

EMPC **Page: 11, 1944, 218**

1,2,3,6,7,8-HxCDF = 11 pg/g

$$\frac{0.4292\ pg/uL \times 20\ uL}{10.23\ g \times 0.826} = 10.8\ pg/g$$ ✓

RMG SITE SOIL ANALYTICAL RESULTS SUMMARY
EUROFINS TESTAMERICA REPORT NO. 500-210259-2

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-SS-D01-211221	8290A	1,2,3,4,6,7,8-HpCDD	160	B	0.64	5.9	pg/g	160	
SSR-SS-D01-211221	8290A	1,2,3,4,6,7,8-HpCDF	42	q B	1.7	5.9	pg/g	42	J
SSR-SS-D01-211221	8290A	1,2,3,4,7,8,9-HpCDF	2	U	2	5.9	pg/g	5.9	U
SSR-SS-D01-211221	8290A	1,2,3,4,7,8-HxCDD	2.6	J B	0.56	5.9	pg/g	5.9	U
SSR-SS-D01-211221	8290A	1,2,3,4,7,8-HxCDF	27		2.1	5.9	pg/g	27	J+
SSR-SS-D01-211221	8290A	1,2,3,6,7,8-HxCDD	12		0.49	5.9	pg/g	12	
SSR-SS-D01-211221	8290A	1,2,3,6,7,8-HxCDF	11	q	1.8	5.9	pg/g	11	J
SSR-SS-D01-211221	8290A	1,2,3,7,8,9-HxCDD	9.2		0.51	5.9	pg/g	9.2	
SSR-SS-D01-211221	8290A	1,2,3,7,8,9-HxCDF	2	U	2	5.9	pg/g	5.9	U
SSR-SS-D01-211221	8290A	1,2,3,7,8-PeCDD	1.3	U	1.3	5.9	pg/g	5.9	U
SSR-SS-D01-211221	8290A	1,2,3,7,8-PeCDF	24		1.6	5.9	pg/g	24	
SSR-SS-D01-211221	8290A	2,3,4,6,7,8-HxCDF	7.8		1.9	5.9	pg/g	7.8	
SSR-SS-D01-211221	8290A	2,3,4,7,8-PeCDF	40		1.7	5.9	pg/g	40	
SSR-SS-D01-211221	8290A	2,3,7,8-TCDD	1.3		0.33	1.2	pg/g	1.3	
SSR-SS-D01-211221	8290A	2,3,7,8-TCDF	63	G	1.4	1.4	pg/g	63	J
SSR-SS-D01-211221	8290A	OCDD	1400	B	1.7	12	pg/g	1400	
SSR-SS-D01-211221	8290A	OCDF	66	B	0.92	12	pg/g	66	
SSR-SS-D01-211221	8290A	Total HpCDD	370	B	0.64	5.9	pg/g	370	
SSR-SS-D01-211221	8290A	Total HpCDF	79	q B	1.7	5.9	pg/g	79	J
SSR-SS-D01-211221	8290A	Total HxCDD	120	B	0.49	5.9	pg/g	120	
SSR-SS-D01-211221	8290A	Total HxCDF	91	q B	1.8	5.9	pg/g	91	J
SSR-SS-D01-211221	8290A	Total PeCDD	7.6	q	1.3	5.9	pg/g	7.6	J
SSR-SS-D01-211221	8290A	Total PeCDF	220		1.6	5.9	pg/g	220	
SSR-SS-D01-211221	8290A	Total TCDD	14	q	0.33	1.2	pg/g	14	J
SSR-SS-D01-211221	8290A	Total TCDF	460	G q	1.4	1.4	pg/g	460	J
SSR-SS-D01-211221	TEQ	Total Dioxin/Furan TEQ	33				pg/g	33	
SSR-SS-F01-211221	8290A	1,2,3,4,6,7,8-HpCDD	110	B	0.64	5.7	pg/g	110	
SSR-SS-F01-211221	8290A	1,2,3,4,6,7,8-HpCDF	28	q B	2.1	5.7	pg/g	28	J
SSR-SS-F01-211221	8290A	1,2,3,4,7,8,9-HpCDF	2.5	U	2.5	5.7	pg/g	5.7	U
SSR-SS-F01-211221	8290A	1,2,3,4,7,8-HxCDD	2.3	J B	0.76	5.7	pg/g	5.7	U
SSR-SS-F01-211221	8290A	1,2,3,4,7,8-HxCDF	6.5		1.2	5.7	pg/g	6.5	J+
SSR-SS-F01-211221	8290A	1,2,3,6,7,8-HxCDD	7.3		0.67	5.7	pg/g	7.3	
SSR-SS-F01-211221	8290A	1,2,3,6,7,8-HxCDF	2.5	J	1	5.7	pg/g	2.5	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-SS-F01-211221	8290A	1,2,3,7,8,9-HxCDD	5.1	J	0.69	5.7	pg/g	5.1	J
SSR-SS-F01-211221	8290A	1,2,3,7,8,9-HxCDF	1.2	U	1.2	5.7	pg/g	5.7	U
SSR-SS-F01-211221	8290A	1,2,3,7,8-PeCDD	0.87	U	0.87	5.7	pg/g	5.7	U
SSR-SS-F01-211221	8290A	1,2,3,7,8-PeCDF	2.1	J	0.67	5.7	pg/g	2.1	J
SSR-SS-F01-211221	8290A	2,3,4,6,7,8-HxCDF	1.1	U	1.1	5.7	pg/g	5.7	U
SSR-SS-F01-211221	8290A	2,3,4,7,8-PeCDF	4	J	0.71	5.7	pg/g	4.0	J
SSR-SS-F01-211221	8290A	2,3,7,8-TCDD	0.28	U	0.28	1.1	pg/g	1.1	U
SSR-SS-F01-211221	8290A	2,3,7,8-TCDF	3.4	G	1.2	1.2	pg/g	3.4	J
SSR-SS-F01-211221	8290A	OCDD	890	B	1.7	11	pg/g	890	
SSR-SS-F01-211221	8290A	OCDF	62	B	1.1	11	pg/g	62	
SSR-SS-F01-211221	8290A	Total HpCDD	260	B	0.64	5.7	pg/g	260	
SSR-SS-F01-211221	8290A	Total HpCDF	62	q B	2.1	5.7	pg/g	62	J
SSR-SS-F01-211221	8290A	Total HxCDD	89	B	0.67	5.7	pg/g	89	
SSR-SS-F01-211221	8290A	Total HxCDF	32	B	1	5.7	pg/g	32	
SSR-SS-F01-211221	8290A	Total PeCDD	2.6	J q	0.87	5.7	pg/g	2.6	J
SSR-SS-F01-211221	8290A	Total PeCDF	28	q	0.67	5.7	pg/g	28	J
SSR-SS-F01-211221	8290A	Total TCDD	5.9		0.28	1.1	pg/g	5.9	
SSR-SS-F01-211221	8290A	Total TCDF	32		0.52	1.1	pg/g	32	
SSR-SS-F01-211221	TEQ	Total Dioxin/Furan TEQ	9.7				pg/g	9.7	
SSR-SS-G01-211221	8290A	1,2,3,4,6,7,8-HpCDD	59	B	0.37	5.7	pg/g	59	
SSR-SS-G01-211221	8290A	1,2,3,4,6,7,8-HpCDF	16	q B	0.96	5.7	pg/g	16	J
SSR-SS-G01-211221	8290A	1,2,3,4,7,8,9-HpCDF	1.1	U	1.1	5.7	pg/g	5.7	U
SSR-SS-G01-211221	8290A	1,2,3,4,7,8-HxCDD	0.49	U	0.49	5.7	pg/g	5.7	U
SSR-SS-G01-211221	8290A	1,2,3,4,7,8-HxCDF	4.6	J q	0.62	5.7	pg/g	4.6	J+
SSR-SS-G01-211221	8290A	1,2,3,6,7,8-HxCDD	3.7	J	0.43	5.7	pg/g	3.7	J
SSR-SS-G01-211221	8290A	1,2,3,6,7,8-HxCDF	2.2	J	0.53	5.7	pg/g	2.2	J
SSR-SS-G01-211221	8290A	1,2,3,7,8,9-HxCDD	0.45	U	0.45	5.7	pg/g	5.7	U
SSR-SS-G01-211221	8290A	1,2,3,7,8,9-HxCDF	0.61	U	0.61	5.7	pg/g	5.7	U
SSR-SS-G01-211221	8290A	1,2,3,7,8-PeCDD	0.51	U	0.51	5.7	pg/g	5.7	U
SSR-SS-G01-211221	8290A	1,2,3,7,8-PeCDF	1.5	J q	0.47	5.7	pg/g	1.5	J
SSR-SS-G01-211221	8290A	2,3,4,6,7,8-HxCDF	0.56	U	0.56	5.7	pg/g	5.7	U
SSR-SS-G01-211221	8290A	2,3,4,7,8-PeCDF	2.4	J	0.5	5.7	pg/g	2.4	J
SSR-SS-G01-211221	8290A	2,3,7,8-TCDD	0.17	U	0.17	1.1	pg/g	1.1	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-SS-G01-211221	8290A	2,3,7,8-TCDF	2	U G	2	2	pg/g	2.0	U
SSR-SS-G01-211221	8290A	OCDD	420	B	0.87	11	pg/g	420	
SSR-SS-G01-211221	8290A	OCDF	21	B	0.52	11	pg/g	21	
SSR-SS-G01-211221	8290A	Total HpCDD	140	B	0.37	5.7	pg/g	140	
SSR-SS-G01-211221	8290A	Total HpCDF	28	q B	0.96	5.7	pg/g	28	J
SSR-SS-G01-211221	8290A	Total HxCDD	37	B	0.43	5.7	pg/g	37	
SSR-SS-G01-211221	8290A	Total HxCDF	20	q B	0.53	5.7	pg/g	20	J
SSR-SS-G01-211221	8290A	Total PeCDD	3.3	J q	0.51	5.7	pg/g	3.3	J
SSR-SS-G01-211221	8290A	Total PeCDF	20	q	0.47	5.7	pg/g	20	J
SSR-SS-G01-211221	8290A	Total TCDD	0.17	U	0.17	1.1	pg/g	1.1	U
SSR-SS-G01-211221	8290A	Total TCDF	21	q	0.36	1.1	pg/g	21	J
SSR-SS-G01-211221	TEQ	Total Dioxin/Furan TEQ	7.4				pg/g	7.4	
SSR-ST-D02-211221	8290A	1,2,3,4,6,7,8-HpCDD	95	B F1	1.4	5.6	pg/g	95	
SSR-ST-D02-211221	8290A	1,2,3,4,6,7,8-HpCDF	11	q B	0.55	5.6	pg/g	11	J
SSR-ST-D02-211221	8290A	1,2,3,4,7,8,9-HpCDF	1.5	J	0.69	5.6	pg/g	1.5	J
SSR-ST-D02-211221	8290A	1,2,3,4,7,8-HxCDD	0.96	J B	0.061	5.6	pg/g	5.6	U
SSR-ST-D02-211221	8290A	1,2,3,4,7,8-HxCDF	3.9	J	0.14	5.6	pg/g	3.9	J
SSR-ST-D02-211221	8290A	1,2,3,6,7,8-HxCDD	2.5	J	0.059	5.6	pg/g	2.5	J
SSR-ST-D02-211221	8290A	1,2,3,6,7,8-HxCDF	1.7	J	0.13	5.6	pg/g	1.7	J
SSR-ST-D02-211221	8290A	1,2,3,7,8,9-HxCDD	2.8	J	0.052	5.6	pg/g	2.8	J
SSR-ST-D02-211221	8290A	1,2,3,7,8,9-HxCDF	0.18	J B	0.14	5.6	pg/g	5.6	U
SSR-ST-D02-211221	8290A	1,2,3,7,8-PeCDD	0.64	J	0.12	5.6	pg/g	0.64	J
SSR-ST-D02-211221	8290A	1,2,3,7,8-PeCDF	1.5	J	0.11	5.6	pg/g	1.5	J
SSR-ST-D02-211221	8290A	2,3,4,6,7,8-HxCDF	1.3	J	0.13	5.6	pg/g	1.3	J
SSR-ST-D02-211221	8290A	2,3,4,7,8-PeCDF	1.8	J	0.11	5.6	pg/g	1.8	J
SSR-ST-D02-211221	8290A	2,3,7,8-TCDD	0.19	J q	0.047	1.1	pg/g	0.19	J
SSR-ST-D02-211221	8290A	2,3,7,8-TCDF	2.2		1	1.1	pg/g	2.2	
SSR-ST-D02-211221	8290A	OCDD	1100	B	0.34	11	pg/g	1100	
SSR-ST-D02-211221	8290A	OCDF	27	B	0.052	11	pg/g	27	
SSR-ST-D02-211221	8290A	Total HpCDD	500	B	1.4	5.6	pg/g	500	
SSR-ST-D02-211221	8290A	Total HpCDF	30	q B	0.62	5.6	pg/g	30	J
SSR-ST-D02-211221	8290A	Total HxCDD	39	B	0.057	5.6	pg/g	39	
SSR-ST-D02-211221	8290A	Total HxCDF	18	q B	0.13	5.6	pg/g	18	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-ST-D02-211221	8290A	Total PeCDD	5.9	q	0.12	5.6	pg/g	5.9	J
SSR-ST-D02-211221	8290A	Total PeCDF	15	q	0.11	5.6	pg/g	15	J
SSR-ST-D02-211221	8290A	Total TCDD	4.2	q	0.047	1.1	pg/g	4.2	J
SSR-ST-D02-211221	8290A	Total TCDF	16		0.095	1.1	pg/g	16	
SSR-ST-D02-211221	TEQ	Total Dioxin/Furan TEQ	4.4				pg/g	4.4	
SSR-ST-D03-211221	8290A	1,2,3,4,6,7,8-HpCDD	350	B	1.1	5.6	pg/g	350	
SSR-ST-D03-211221	8290A	1,2,3,4,6,7,8-HpCDF	51	B	1.4	5.6	pg/g	51	
SSR-ST-D03-211221	8290A	1,2,3,4,7,8,9-HpCDF	5.2	J	1.7	5.6	pg/g	5.2	J
SSR-ST-D03-211221	8290A	1,2,3,4,7,8-HxCDD	3.5	J B	0.91	5.6	pg/g	5.6	U
SSR-ST-D03-211221	8290A	1,2,3,4,7,8-HxCDF	15		1.3	5.6	pg/g	15	
SSR-ST-D03-211221	8290A	1,2,3,6,7,8-HxCDD	20		0.81	5.6	pg/g	20	
SSR-ST-D03-211221	8290A	1,2,3,6,7,8-HxCDF	6.1		1.1	5.6	pg/g	6.1	
SSR-ST-D03-211221	8290A	1,2,3,7,8,9-HxCDD	15		0.84	5.6	pg/g	15	
SSR-ST-D03-211221	8290A	1,2,3,7,8,9-HxCDF	1.2	U	1.2	5.6	pg/g	5.6	U
SSR-ST-D03-211221	8290A	1,2,3,7,8-PeCDD	1.2	U	1.2	5.6	pg/g	5.6	U
SSR-ST-D03-211221	8290A	1,2,3,7,8-PeCDF	1.9	U	1.9	5.6	pg/g	5.6	U
SSR-ST-D03-211221	8290A	2,3,4,6,7,8-HxCDF	3.1	J q	1.1	5.6	pg/g	3.1	J
SSR-ST-D03-211221	8290A	2,3,4,7,8-PeCDF	2	U	2	5.6	pg/g	5.6	U
SSR-ST-D03-211221	8290A	2,3,7,8-TCDD	0.92	J	0.37	1.1	pg/g	0.92	J
SSR-ST-D03-211221	8290A	2,3,7,8-TCDF	15	G	1.7	1.7	pg/g	15	J
SSR-ST-D03-211221	8290A	OCDD	3300	B	3.8	11	pg/g	3300	
SSR-ST-D03-211221	8290A	OCDF	130	B	1.3	11	pg/g	130	
SSR-ST-D03-211221	8290A	Total HpCDD	730	B	1.1	5.6	pg/g	730	
SSR-ST-D03-211221	8290A	Total HpCDF	130	B	1.4	5.6	pg/g	130	
SSR-ST-D03-211221	8290A	Total HxCDD	200	q B	0.81	5.6	pg/g	200	J
SSR-ST-D03-211221	8290A	Total HxCDF	85	q B	1.1	5.6	pg/g	85	J
SSR-ST-D03-211221	8290A	Total PeCDD	3.3	J q	1.2	5.6	pg/g	3.3	J
SSR-ST-D03-211221	8290A	Total PeCDF	49		1.9	5.6	pg/g	49	
SSR-ST-D03-211221	8290A	Total TCDD	11	q	0.37	1.1	pg/g	11	J
SSR-ST-D03-211221	8290A	Total TCDF	170		1	1.1	pg/g	170	
SSR-ST-D03-211221	TEQ	Total Dioxin/Furan TEQ	18				pg/g	18	
SSR-ST-D04-211221	8290A	1,2,3,4,6,7,8-HpCDD	77	B	0.56	5.8	pg/g	77	
SSR-ST-D04-211221	8290A	1,2,3,4,6,7,8-HpCDF	15	q B	1.1	5.8	pg/g	15	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-ST-D04-211221	8290A	1,2,3,4,7,8,9-HpCDF	1.3	U	1.3	5.8	pg/g	5.8	U
SSR-ST-D04-211221	8290A	1,2,3,4,7,8-HxCDD	1	J q B	0.42	5.8	pg/g	5.8	U
SSR-ST-D04-211221	8290A	1,2,3,4,7,8-HxCDF	4.7	J	0.64	5.8	pg/g	4.7	J+
SSR-ST-D04-211221	8290A	1,2,3,6,7,8-HxCDD	4.3	J	0.37	5.8	pg/g	4.3	J
SSR-ST-D04-211221	8290A	1,2,3,6,7,8-HxCDF	1.8	J	0.55	5.8	pg/g	1.8	J
SSR-ST-D04-211221	8290A	1,2,3,7,8,9-HxCDD	3.4	J	0.38	5.8	pg/g	3.4	J
SSR-ST-D04-211221	8290A	1,2,3,7,8,9-HxCDF	0.62	U	0.62	5.8	pg/g	5.8	U
SSR-ST-D04-211221	8290A	1,2,3,7,8-PeCDD	0.5	U	0.5	5.8	pg/g	5.8	U
SSR-ST-D04-211221	8290A	1,2,3,7,8-PeCDF	1.2	J q	0.34	5.8	pg/g	1.2	J
SSR-ST-D04-211221	8290A	2,3,4,6,7,8-HxCDF	0.57	U	0.57	5.8	pg/g	5.8	U
SSR-ST-D04-211221	8290A	2,3,4,7,8-PeCDF	2.6	J	0.36	5.8	pg/g	2.6	J
SSR-ST-D04-211221	8290A	2,3,7,8-TCDD	0.23	U	0.23	1.2	pg/g	1.2	U
SSR-ST-D04-211221	8290A	2,3,7,8-TCDF	3.1		1.1	1.2	pg/g	3.1	
SSR-ST-D04-211221	8290A	OCDD	700	B	1.1	12	pg/g	700	
SSR-ST-D04-211221	8290A	OCDF	34	B	0.77	12	pg/g	34	
SSR-ST-D04-211221	8290A	Total HpCDD	190	B	0.56	5.8	pg/g	190	
SSR-ST-D04-211221	8290A	Total HpCDF	31	q B	1.1	5.8	pg/g	31	J
SSR-ST-D04-211221	8290A	Total HxCDD	51	q B	0.37	5.8	pg/g	51	J
SSR-ST-D04-211221	8290A	Total HxCDF	20	B	0.55	5.8	pg/g	20	
SSR-ST-D04-211221	8290A	Total PeCDD	3.8	J q	0.5	5.8	pg/g	3.8	J
SSR-ST-D04-211221	8290A	Total PeCDF	13	q	0.34	5.8	pg/g	13	J
SSR-ST-D04-211221	8290A	Total TCDD	2.1		0.23	1.2	pg/g	2.1	
SSR-ST-D04-211221	8290A	Total TCDF	21	q	0.36	1.2	pg/g	21	J
SSR-ST-D04-211221	TEQ	Total Dioxin/Furan TEQ	7.9				pg/g	7.9	
SSR-ST-F02-211221	8290A	1,2,3,4,6,7,8-HpCDD	39	B	0.31	5.3	pg/g	39	
SSR-ST-F02-211221	8290A	1,2,3,4,6,7,8-HpCDF	14	B	0.54	5.3	pg/g	14	
SSR-ST-F02-211221	8290A	1,2,3,4,7,8,9-HpCDF	0.64	U	0.64	5.3	pg/g	5.3	U
SSR-ST-F02-211221	8290A	1,2,3,4,7,8-HxCDD	0.18	U	0.18	5.3	pg/g	5.3	U
SSR-ST-F02-211221	8290A	1,2,3,4,7,8-HxCDF	5.2	J	0.38	5.3	pg/g	5.2	J
SSR-ST-F02-211221	8290A	1,2,3,6,7,8-HxCDD	2.7	J	0.16	5.3	pg/g	2.7	J
SSR-ST-F02-211221	8290A	1,2,3,6,7,8-HxCDF	1.6	J	0.32	5.3	pg/g	1.6	J
SSR-ST-F02-211221	8290A	1,2,3,7,8,9-HxCDD	2.3	J	0.17	5.3	pg/g	2.3	J
SSR-ST-F02-211221	8290A	1,2,3,7,8,9-HxCDF	0.37	U	0.37	5.3	pg/g	5.3	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-ST-F02-211221	8290A	1,2,3,7,8-PeCDD	0.34	U	0.34	5.3	pg/g	5.3	U
SSR-ST-F02-211221	8290A	1,2,3,7,8-PeCDF	0.55	U	0.55	5.3	pg/g	5.3	U
SSR-ST-F02-211221	8290A	2,3,4,6,7,8-HxCDF	1.8	J	0.34	5.3	pg/g	1.8	J
SSR-ST-F02-211221	8290A	2,3,4,7,8-PeCDF	3.3	J	0.58	5.3	pg/g	3.3	J
SSR-ST-F02-211221	8290A	2,3,7,8-TCDD	0.1	U	0.1	1.1	pg/g	1.1	U
SSR-ST-F02-211221	8290A	2,3,7,8-TCDF	1.3		0.96	1.1	pg/g	1.3	
SSR-ST-F02-211221	8290A	OCDD	280	B	0.72	11	pg/g	280	
SSR-ST-F02-211221	8290A	OCDF	14	B	0.55	11	pg/g	14	
SSR-ST-F02-211221	8290A	Total HpCDD	92	B	0.31	5.3	pg/g	92	
SSR-ST-F02-211221	8290A	Total HpCDF	21	q B	0.54	5.3	pg/g	21	J
SSR-ST-F02-211221	8290A	Total HxCDD	28	B	0.16	5.3	pg/g	28	
SSR-ST-F02-211221	8290A	Total HxCDF	22	q B	0.32	5.3	pg/g	22	J
SSR-ST-F02-211221	8290A	Total PeCDD	0.34	U	0.34	5.3	pg/g	5.3	U
SSR-ST-F02-211221	8290A	Total PeCDF	18	q	0.55	5.3	pg/g	18	J
SSR-ST-F02-211221	8290A	Total TCDD	0.1	U	0.1	1.1	pg/g	1.1	U
SSR-ST-F02-211221	8290A	Total TCDF	16	q	0.24	1.1	pg/g	16	J
SSR-ST-F02-211221	TEQ	Total Dioxin/Furan TEQ	7				pg/g	7.0	
SSR-ST-F03-211221	8290A	1,2,3,4,6,7,8-HpCDD	100	B	0.52	5.5	pg/g	100	
SSR-ST-F03-211221	8290A	1,2,3,4,6,7,8-HpCDF	26	B	2	5.5	pg/g	26	
SSR-ST-F03-211221	8290A	1,2,3,4,7,8,9-HpCDF	2.3	U	2.3	5.5	pg/g	5.5	U
SSR-ST-F03-211221	8290A	1,2,3,4,7,8-HxCDD	1.6	J B	0.18	5.5	pg/g	5.5	U
SSR-ST-F03-211221	8290A	1,2,3,4,7,8-HxCDF	5.1	J	0.49	5.5	pg/g	5.1	J+
SSR-ST-F03-211221	8290A	1,2,3,6,7,8-HxCDD	6		0.16	5.5	pg/g	6.0	
SSR-ST-F03-211221	8290A	1,2,3,6,7,8-HxCDF	2.6	J	0.42	5.5	pg/g	2.6	J
SSR-ST-F03-211221	8290A	1,2,3,7,8,9-HxCDD	3.7	J q	0.16	5.5	pg/g	3.7	J
SSR-ST-F03-211221	8290A	1,2,3,7,8,9-HxCDF	0.48	U	0.48	5.5	pg/g	5.5	U
SSR-ST-F03-211221	8290A	1,2,3,7,8-PeCDD	0.63	U	0.63	5.5	pg/g	5.5	U
SSR-ST-F03-211221	8290A	1,2,3,7,8-PeCDF	1.4	U	1.4	5.5	pg/g	5.5	U
SSR-ST-F03-211221	8290A	2,3,4,6,7,8-HxCDF	2.4	J	0.44	5.5	pg/g	2.4	J
SSR-ST-F03-211221	8290A	2,3,4,7,8-PeCDF	1.4	U	1.4	5.5	pg/g	5.5	U
SSR-ST-F03-211221	8290A	2,3,7,8-TCDD	0.24	U	0.24	1.1	pg/g	1.1	U
SSR-ST-F03-211221	8290A	2,3,7,8-TCDF	2.9	G	1.7	1.7	pg/g	2.9	J
SSR-ST-F03-211221	8290A	OCDD	940	B	1.5	11	pg/g	940	

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-ST-F03-211221	8290A	OCDF	66	B	1.1	11	pg/g	66	
SSR-ST-F03-211221	8290A	Total HpCDD	260	B	0.52	5.5	pg/g	260	
SSR-ST-F03-211221	8290A	Total HpCDF	65	B	2	5.5	pg/g	65	
SSR-ST-F03-211221	8290A	Total HxCDD	59	q B	0.16	5.5	pg/g	59	J
SSR-ST-F03-211221	8290A	Total HxCDF	40	B	0.42	5.5	pg/g	40	
SSR-ST-F03-211221	8290A	Total PeCDD	1.6	J q	0.63	5.5	pg/g	1.6	J
SSR-ST-F03-211221	8290A	Total PeCDF	9.3	q	1.4	5.5	pg/g	9.3	J
SSR-ST-F03-211221	8290A	Total TCDD	0.24	U	0.24	1.1	pg/g	1.1	U
SSR-ST-F03-211221	8290A	Total TCDF	34		0.67	1.1	pg/g	34	
SSR-ST-F03-211221	TEQ	Total Dioxin/Furan TEQ	8.6				pg/g	8.6	
SSR-ST-G02-211221	8290A	1,2,3,4,6,7,8-HpCDD	75	B	0.61	5.5	pg/g	75	
SSR-ST-G02-211221	8290A	1,2,3,4,6,7,8-HpCDF	15	q B	2	5.5	pg/g	15	J
SSR-ST-G02-211221	8290A	1,2,3,4,7,8,9-HpCDF	2.4	U	2.4	5.5	pg/g	5.5	U
SSR-ST-G02-211221	8290A	1,2,3,4,7,8-HxCDD	0.78	J q B	0.39	5.5	pg/g	5.5	U
SSR-ST-G02-211221	8290A	1,2,3,4,7,8-HxCDF	4	J	0.56	5.5	pg/g	4.0	J
SSR-ST-G02-211221	8290A	1,2,3,6,7,8-HxCDD	3.9	J q	0.35	5.5	pg/g	3.9	J
SSR-ST-G02-211221	8290A	1,2,3,6,7,8-HxCDF	1.6	J	0.48	5.5	pg/g	1.6	J
SSR-ST-G02-211221	8290A	1,2,3,7,8,9-HxCDD	3	J	0.36	5.5	pg/g	3.0	J
SSR-ST-G02-211221	8290A	1,2,3,7,8,9-HxCDF	0.54	U	0.54	5.5	pg/g	5.5	U
SSR-ST-G02-211221	8290A	1,2,3,7,8-PeCDD	0.63	U	0.63	5.5	pg/g	5.5	U
SSR-ST-G02-211221	8290A	1,2,3,7,8-PeCDF	0.49	U	0.49	5.5	pg/g	5.5	U
SSR-ST-G02-211221	8290A	2,3,4,6,7,8-HxCDF	0.5	U	0.5	5.5	pg/g	5.5	U
SSR-ST-G02-211221	8290A	2,3,4,7,8-PeCDF	0.52	U	0.52	5.5	pg/g	5.5	U
SSR-ST-G02-211221	8290A	2,3,7,8-TCDD	0.21	U	0.21	1.1	pg/g	1.1	U
SSR-ST-G02-211221	8290A	2,3,7,8-TCDF	2.1	U G	2.1	2.1	pg/g	2.1	U
SSR-ST-G02-211221	8290A	OCDD	540	B	1.5	11	pg/g	540	
SSR-ST-G02-211221	8290A	OCDF	26	B	1.1	11	pg/g	26	
SSR-ST-G02-211221	8290A	Total HpCDD	170	B	0.61	5.5	pg/g	170	
SSR-ST-G02-211221	8290A	Total HpCDF	28	q B	2	5.5	pg/g	28	J
SSR-ST-G02-211221	8290A	Total HxCDD	48	q B	0.35	5.5	pg/g	48	J
SSR-ST-G02-211221	8290A	Total HxCDF	18	B	0.48	5.5	pg/g	18	
SSR-ST-G02-211221	8290A	Total PeCDD	0.63	U	0.63	5.5	pg/g	5.5	U
SSR-ST-G02-211221	8290A	Total PeCDF	13	q	0.49	5.5	pg/g	13	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-ST-G02-211221	8290A	Total TCDD	0.81	J q	0.21	1.1	pg/g	0.81	J
SSR-ST-G02-211221	8290A	Total TCDF	8.6	q	0.38	1.1	pg/g	8.6	J
SSR-ST-G02-211221	TEQ	Total Dioxin/Furan TEQ	7.4				pg/g	7.4	
SSR-ST-G02-211221-D	8290A	1,2,3,4,6,7,8-HpCDD	59	B	0.44	5.5	pg/g	59	
SSR-ST-G02-211221-D	8290A	1,2,3,4,6,7,8-HpCDF	14	q B	1.6	5.5	pg/g	14	J
SSR-ST-G02-211221-D	8290A	1,2,3,4,7,8,9-HpCDF	1.9	U	1.9	5.5	pg/g	5.5	U
SSR-ST-G02-211221-D	8290A	1,2,3,4,7,8-HxCDD	0.39	U	0.39	5.5	pg/g	5.5	U
SSR-ST-G02-211221-D	8290A	1,2,3,4,7,8-HxCDF	4.4	J	0.43	5.5	pg/g	4.4	J
SSR-ST-G02-211221-D	8290A	1,2,3,6,7,8-HxCDD	3.7	J	0.34	5.5	pg/g	3.7	J
SSR-ST-G02-211221-D	8290A	1,2,3,6,7,8-HxCDF	1.5	J	0.37	5.5	pg/g	1.5	J
SSR-ST-G02-211221-D	8290A	1,2,3,7,8,9-HxCDD	2.8	J	0.35	5.5	pg/g	2.8	J
SSR-ST-G02-211221-D	8290A	1,2,3,7,8,9-HxCDF	0.41	U	0.41	5.5	pg/g	5.5	U
SSR-ST-G02-211221-D	8290A	1,2,3,7,8-PeCDD	0.48	U	0.48	5.5	pg/g	5.5	U
SSR-ST-G02-211221-D	8290A	1,2,3,7,8-PeCDF	1.1	J	0.49	5.5	pg/g	1.1	J
SSR-ST-G02-211221-D	8290A	2,3,4,6,7,8-HxCDF	0.38	U	0.38	5.5	pg/g	5.5	U
SSR-ST-G02-211221-D	8290A	2,3,4,7,8-PeCDF	1.7	J q	0.51	5.5	pg/g	1.7	J
SSR-ST-G02-211221-D	8290A	2,3,7,8-TCDD	0.41	J	0.17	1.1	pg/g	0.41	J
SSR-ST-G02-211221-D	8290A	2,3,7,8-TCDF	2	G	1.7	1.7	pg/g	2.0	J
SSR-ST-G02-211221-D	8290A	OCDD	430	B	1.1	11	pg/g	430	
SSR-ST-G02-211221-D	8290A	OCDF	20	B	0.73	11	pg/g	20	
SSR-ST-G02-211221-D	8290A	Total HpCDD	140	B	0.44	5.5	pg/g	140	
SSR-ST-G02-211221-D	8290A	Total HpCDF	24	q B	1.6	5.5	pg/g	24	J
SSR-ST-G02-211221-D	8290A	Total HxCDD	37	q B	0.34	5.5	pg/g	37	J
SSR-ST-G02-211221-D	8290A	Total HxCDF	16	B	0.37	5.5	pg/g	16	
SSR-ST-G02-211221-D	8290A	Total PeCDD	3.7	J q	0.48	5.5	pg/g	3.7	J
SSR-ST-G02-211221-D	8290A	Total PeCDF	17	q	0.49	5.5	pg/g	17	J
SSR-ST-G02-211221-D	8290A	Total TCDD	0.41	J	0.17	1.1	pg/g	0.41	J
SSR-ST-G02-211221-D	8290A	Total TCDF	15	q	0.29	1.1	pg/g	15	J
SSR-ST-G02-211221-D	TEQ	Total Dioxin/Furan TEQ	6.9				pg/g	6.9	
SSR-ST-G03-211221	8290A	1,2,3,4,6,7,8-HpCDD	190	B	0.79	5.4	pg/g	190	
SSR-ST-G03-211221	8290A	1,2,3,4,6,7,8-HpCDF	77	E B q G	24	24	pg/g	77	J
SSR-ST-G03-211221	8290A	1,2,3,4,7,8,9-HpCDF	28	U G	28	28	pg/g	28	U
SSR-ST-G03-211221	8290A	1,2,3,4,7,8-HxCDD	1.3	U	1.3	5.4	pg/g	5.4	U

RMG SITE SOIL ANALYTICAL RESULTS SUMMARY
EUROFINS TESTAMERICA REPORT NO. 500-210259-2

Sample ID	Method	Analyte	Lab Result	Lab Qual	EDL	RL	Units	Val Result	Val Qual
SSR-ST-G03-211221	8290A	1,2,3,4,7,8-HxCDF	19		1.5	5.4	pg/g	19	
SSR-ST-G03-211221	8290A	1,2,3,6,7,8-HxCDD	11		1.2	5.4	pg/g	11	
SSR-ST-G03-211221	8290A	1,2,3,6,7,8-HxCDF	8.2		1.3	5.4	pg/g	8.2	
SSR-ST-G03-211221	8290A	1,2,3,7,8,9-HxCDD	6.4		1.2	5.4	pg/g	6.4	
SSR-ST-G03-211221	8290A	1,2,3,7,8,9-HxCDF	1.4	U	1.4	5.4	pg/g	5.4	U
SSR-ST-G03-211221	8290A	1,2,3,7,8-PeCDD	2.3	U	2.3	5.4	pg/g	5.4	U
SSR-ST-G03-211221	8290A	1,2,3,7,8-PeCDF	6.5		1.2	5.4	pg/g	6.5	
SSR-ST-G03-211221	8290A	2,3,4,6,7,8-HxCDF	8.8		1.3	5.4	pg/g	8.8	
SSR-ST-G03-211221	8290A	2,3,4,7,8-PeCDF	7		1.3	5.4	pg/g	7.0	
SSR-ST-G03-211221	8290A	2,3,7,8-TCDD	0.22	U	0.22	1.1	pg/g	1.1	U
SSR-ST-G03-211221	8290A	2,3,7,8-TCDF	7.8	G	4	4	pg/g	7.8	J
SSR-ST-G03-211221	8290A	OCDD	1400	B	2	11	pg/g	1400	
SSR-ST-G03-211221	8290A	OCDF	110	B	1.3	11	pg/g	110	
SSR-ST-G03-211221	8290A	Total HpCDD	380	B	0.79	5.4	pg/g	380	
SSR-ST-G03-211221	8290A	Total HpCDF	77	B q G	24	24	pg/g	77	J
SSR-ST-G03-211221	8290A	Total HxCDD	110	B	1.2	5.4	pg/g	110	
SSR-ST-G03-211221	8290A	Total HxCDF	72	B	1.3	5.4	pg/g	72	
SSR-ST-G03-211221	8290A	Total PeCDD	6.9	q	2.3	5.4	pg/g	6.9	J
SSR-ST-G03-211221	8290A	Total PeCDF	58	q	1.2	5.4	pg/g	58	J
SSR-ST-G03-211221	8290A	Total TCDD	6.1	q	0.22	1.1	pg/g	6.1	J
SSR-ST-G03-211221	8290A	Total TCDF	55		0.89	1.1	pg/g	55	
SSR-ST-G03-211221	TEQ	Total Dioxin/Furan TEQ	15				pg/g	15	

DATA VALIDATION CHECKLIST – STAGE 3

Site Name	RMG SITE		**Project No.**	103Z328406002
Data Reviewer (signature and date)	Bruce Welch January 31, 2022		**Technical Reviewer (signature and date)**	Harry N. Ellis III 2 February 2022
Laboratory Report No.	500-210259-3		**Laboratory**	Eurofins TestAmerica - Chicago, IL
Analyses	Semi-volatile organic compounds (SVOC) by SW-846 Method 8270D			
Samples and Matrix	Eleven solid samples including one solid field duplicate sample			
Date Collected	December 21, 2021			
Field Duplicate Pairs	SSR-ST-G02-211221 / SSR-ST- G02-211221-D			
Field QC Blanks	None			

INTRODUCTION

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (January 2020).

OVERALL EVALUATION

No rejection of the data was required for this data package. The results may be used as qualified based on the findings of this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
N	The decafluorotriphenylphosphine (DFTPP) solution 500-637816/1 that was analyzed on January 14, 2022, at 08:01 before the initial calibration was missing from the Level IV data package. The laboratory was contacted, and they provided a revised Level IV data package with the missing data for this DFTPP solution.

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
N	The laboratory initially extracted the samples within the 14-day holding time requirement. However, the laboratory was unable to analyze the samples that were extracted within the holding time requirement due to interferences with the gas chromatography-mass spectrometry instrumentation because the samples were severely contaminated. The laboratory identified the anhydrous sodium sulfate that the laboratory used to prepare the samples and batch quality control samples was contaminated. After the laboratory resolved the contamination issue, the samples were re-extracted outside of the holding time. The samples were re-extracted ten days after the 14-day holding time requirement, but within two times the 14-day holding time requirement; therefore, all SVOC positive detections were qualified as estimated, possibly biased low (flagged J-), and all SVOC nondetect sample results were qualified as estimated (flagged UJ), unless further qualified by competing qualifications.

Instrument Performance Checks:

Within Criteria	Exceedance/Notes
N	EPA SW-846 Method 8270 states that a DFTPP solution should be prepared with benzidine and pentachlorophenol, and the total amount of benzidine and pentachlorophenol injected should not exceed 50 nanograms (ng) and the tailing factor of these analytes must not exceed 2.0. The DFTPP solution that was analyzed on January 18, 2022, at 08:31 had a 2.6 peak tailing factor for benzidine and a 3.2 peak tailing factor for pentachlorophenol; this DFTPP solution was associated with samples SSR-ST-D04-211221, SSR-SS-F01-211221, SSR-ST-F02-211221, SSR-ST-F03-211221, SSR-SS-G01-211221, and SSR-ST-G02-211221. Additionally, the DFTPP solution that was analyzed on January 17, 2022, at 08:00 had a 2.4 peak tailing factor for pentachlorophenol exceed the 2.0 limit, and this DFTPP solution was associated with samples SSR-ST-G02-211221-D and SSR-ST-G03-211221. Both the continuing calibration verification (CCV) solutions 500-638228/2 and 500-638050/2 that were analyzed after these DFTPP solutions had response factors (RF) for all analytes meet the RF acceptance criteria, which suggests the sensitivity of the instrument between the time of the initial calibration and the time of sample analysis was minimally affected. However, tailing factors additionally measure instrument inertness and overall performance of the analytical system; therefore, due to potential degradation of instrument performance, all acid extractable sample results for samples SSR-ST-G02-211221-D and SSR-ST-G03-211221, and all results for samples SSR-ST-D04-211221, SSR-SS-F01-211221, SSR-ST-F02-211221, SSR-ST-F03-211221, SSR-SS-G01-211221, and SSR-ST-G02-211221 were qualified as estimated (flagged J/UJ), unless further qualified by competing qualifications. The laboratory stated in the narrative that the pentachlorophenol and benzidine tailing factors were measured in the CCV solution 500-638228/2 and the tailing factors were 1.5 and 1.2, respectively, which met the method criteria; however, laboratory evaluation is not acceptable, and it may be disregarded because the pentachlorophenol and benzidine injected concentration in the CCV was 70 ng and exceeded the 50 ng or less method requirement.

DATA VALIDATION CHECKLIST – STAGE 3

Initial Calibration:

Within Criteria	Exceedance/Notes
Y	

Continuing Calibration:

Within Criteria	Exceedance/Notes
N	The CCV 500-638169/2 that was analyzed on January 17, 2022, at 14:07 had a 26.7% difference (%D) for phenol, 24.8%D for 2-chlorophenol, 22.4%D for 4-chloroaniline, 27.5%D for 2,4-dinitrophenol, 23.8%D for acenaphthene, 23.1%D for pentachlorophenol, and 27.0%D for carbazole, exceed the laboratory 20 %D acceptance limit; therefore, the results for these analytes for samples SSR-SS-D01-211221, SSR-ST-D02-211221, and SSR-ST-D03-211221 that were analyzed on January 17, 2022, were qualified as estimated (flagged J/UJ), unless further qualified by competing qualifications. The CCV 500-638050/2 that was analyzed on January 17, 2022, at 08:21 had a -78.8% difference (%D) for 2,2’-oxybis[1-chloropropane], -25.5 %D for N-nitrosodi-n-propylamine, 20.2 %D for 2,4-dichlorophenol, -26.3 %D for 2-nitroaniline, 21.0 %D for 2,4-dinitrotoluene, 45.6 %D for carbazole, and 116.0 %D for 3,3’-dichlorobenzidine exceed the laboratory 20 %D acceptance limit; therefore, the nondetect results for these analytes for samples SSR-ST-G02-211221-D and SSR-ST-G03-211221 were qualified as estimated (flagged UJ). Additionally, the low-level CCV 500-638050/3 had a -78.3 %D for 2,2’-oxybis[1-chloropropane] exceed the laboratory 50 %D acceptance limit; therefore, the 2,2'-oxybis[1-chloropropane] nondetect results for samples SSR-ST-G02-211221-D and SSR-ST-G03-211221 were qualified as estimated (flagged UJ). The CCV 500-638228/2 that was analyzed on January 18, 2022, at 12:14 had a 24.5%D for 2,2’-oxybis[1-chloropropane], 22.7%D for 2-methylnaphthalene, -57.1%D for hexachlorocyclopentadiene, 22.1%D for 2-nitroaniline, 20.8%D for acenaphthylene, 23.8%D for dibenzofuran, 21.6%D for di-n-butyl phthalate, 23.2%D for fluoranthene, and 24.9%D for di-n-octyl phthalate; therefore, the results for these analytes for samples SSR-SS-F01-211221, SSR-SS-G01-211221, SSR-ST-D04-211221, SSR-ST-F02-211221, SSR-ST-F03-211221, and SSR-ST-G02-211221 were qualified as estimated (flagged J/UJ), unless further qualified by competing qualifications.

Calibration Verification:

Within Criteria	Exceedance/Notes
N	The initial calibration verification (ICV) 500-637085/13 that was analyzed on January 10, 2022, at 14:01 had a 33.5 %D value for carbazole; however, no qualifications were applied to the carbazole nondetect results for samples SSR-ST-G02-211221-D and SSR-ST-G03-211221 because the carbazole %D value met the NFG 40 %D acceptance limit. Additionally, this ICV solution had a 96.2 %D for 3,3-dichlorobenzidine exceed the NFG 40 %D acceptance limit; therefore, the 3,3-dichlorobenzidine nondetect results for samples SSR-ST-G02-211221-D and SSR-ST-G03-211221 were qualified as estimated (flagged UJ).

Method blanks:

Within Criteria	Exceedance/Notes
N	The method blank 500-637894/1-A contained 0.0552 milligrams per kilogram of di-n-butyl phthalate, a concentration that was less than the reporting limit, and the di-n-butyl phthalate result for samples SSR-SS-D01-211221, SSR-ST-D02-211221, and SSR-ST-D03-211221 was less than the reporting limit; therefore, the di-n-butyl phthalate result for these samples were reported at the reporting limit and qualified as nondetect (flagged U). The data user should note the di-n-butyl phthalate result for samples SSR-SS-D01-211221, SSR-ST-D02-211221, and SSR-ST-D03-211221 was further qualified for the holding time exceedance and flagged "UJ".

Field blanks:

Within Criteria	Exceedance/Notes
NA	

Interference Check Samples (ICS) (ICP metals only):

Within Criteria	Exceedance/Notes
NA	

System monitoring compounds (surrogates and labeled compounds):

Within Criteria	Exceedance/Notes
Y	

MS/MSD:

Within Criteria	Exceedance/Notes
NA	

Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	

Serial dilutions:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
N	**SSR-ST-G02-211221 / SSR-ST- G02-211221-D**: The absolute difference for benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, bis(2-ethylhexyl) phthalate, chrysene, fluoranthene, and pyrene exceeded the reporting limits; therefore, the parent sample and field duplicate sample results were qualified as estimated (flagged J/UJ), unless further qualified from competing exceedances.

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	While no qualifications were applied for dilutions, the data user should note the increased RLs. All analytes were analyzed with a 5-fold dilution for samples SSR-SS-D01-211221, SSR-ST-D02-211221, SSR-ST-D04-211221, SSR-ST-F02-211221, SSR-ST-G02-211221, SSR-ST-G02-211221-D, and SSR-ST-G03-211221, and 10-fold dilution for samples SSR-SS-F01-211221, SSR-SS-G01-211221, SSR-ST-D03-211221, and SSR-ST-F03-211221.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes,
N	Samples SSR-ST-G02-211221-D and SSR-ST-G03-211221 were initially analyzed on January 17, 2022, and yielded low recoveries for the internal standard perylene-d_{12} recovery. These samples were reanalyzed on January 18, 2022, to confirm the internal standard recoveries, and the reanalysis for these samples confirmed the recoveries for the internal standard perylene -d_{12} were less than the laboratory acceptance criteria. The results for samples SSR-ST-G02-211221-D and SSR-ST-G03-211221 are reported from the initial analysis in the attached qualified data table.

Second column confirmation (GC and HPLC analyses only):

Within Criteria	Exceedance/Notes
NA	

Internal Standards:

Within Criteria	Exceedance/Notes
N	The instrument area response for perylene-d_{12} for samples SSR-ST-G02-211221-D and SSR-ST-G03-211221 were less than 50% but greater than 20% of the CCV standard instrument area response for perylene -d_{12}; therefore, the positive detections for benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, and benzo[k]fluoranthene for samples SSR-ST-G02-211221-D and SSR-ST-G03-211221 were qualified as estimated, possible biased high (flagged J+), but due to competing qualifications from the holding time exceedance the positive detections were qualified as estimated without bias (flagged J). The nondetect results for benzo[a]pyrene, dibenz(a,h)anthracene, di-n-octyl phthalate, and indeno[1,2,3-cd]pyrene were qualified as estimated (flagged UJ).

Target analyte identification:

Within Criteria	Exceedance/Notes
N	The 139 secondary ion for the positively identified analyte dibenz(a,h)anthracene was not present in the sample mass spectrum for samples SSR-ST-D02-211221, SSR-ST-D03-211221, SSR-ST-D04-211221, and SSR-ST-F02-211221; therefore, because the mass spectrum did not meet the acceptance criteria, the dibenz(a,h)anthracene results for samples SSR-ST-D02-211221, SSR-ST-D03-211221, SSR-ST-D04-211221, and SSR-ST-F02-211221 were qualified as non-detect (flagged U) and reported at the reporting limit.

Analyte quantitation and MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	The non-detect results were reported at the reporting limit (RL) values in the laboratory PDF report, but the non-detect results were reported at the method detection limit (MDL) values in electronic data deliverable. Sample results between the MDL and the RL were flagged "J" by the laboratory. The non-detect sample results are reported at the RL values in the attached qualified data tables.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [none]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

. 500-210259-3 SVOC

ICV 500-638070/13 1/17/2022 12:31

2,6-dinitrotoluene = -0.8%, 6.94 μg/mL⁻¹ pg: 1448, 882, 588, 1451/1450

$$C_x = \frac{-b \pm \sqrt{b^2 + 4 \cdot a\left[\left(\frac{A_x \cdot C_{IS}}{A_{IS}}\right) - C\right]}}{2a}$$

a = 0.0112723
b = 0.2007
C = -0.002141

$$C_x = \frac{-0.2007 + \sqrt{(0.2007)^2 + 4\left[(0.0112723)\cdot\left(\frac{1132913 \cdot 3.2\ \mu g \cdot mL^{-1}}{1872866}\right) - (0.002141)\right]}}{2(0.0112723)}$$

$C_x = 6.93\ \mu g \cdot mL^{-1}$ ✓

$$\%D = \left(\frac{6.94 - 7.0}{7.0}\right) \times 100 = -0.8\%$$ ✓

CCV: 500-638228/2 1/18/22 09:35

2,4-dinitrophenol = -8.9%

pg: 1578, 1490, 1116, 1390

$$C_x = \frac{\left[\left(\frac{495282}{501727}\right) \times 3.2\ \mu g \cdot mL^{-1}\right] - (-0.8903)}{0.3177} = 12.7\ \mu g \cdot mL^{-1}$$ ✓

$$\%D = \left(\frac{12.745 - 14.0}{14.0}\right) \times 100 = -8.9\%$$ ✓

1

500-210259-3 SVOC

DFTPP:

1/14/22 08:01
pg: 1538-1545

M/Z 199 = 6.9%

$$M/Z\,199 = \frac{58648}{847232} \times 100 = 6.9\%$$

DDT Breakdown = 0.64%

$$\text{DDT Breakdown} = \frac{8599 + 4248}{8599 + 4248 + 1984950} \times 100 = 0.64\% \checkmark$$

Pentachlorophenol tailing factor = 1.73

$$\frac{0.019}{0.011} = 1.73 \checkmark$$

Benzidine tailing factor = 1.59

$$\frac{0.027}{0.017} = 1.59 \checkmark$$

Resolution Resolution = 32.3%

1/10/2022 12:38
pg: 1430, 1431

$$\left[\frac{254403}{\left(\frac{669071 + 908516}{2}\right)}\right] \times 100 = 32.3\% \checkmark$$

500-210257-3 SVOC

MB : 500-637894/1-A 1/17/22 14:56
di-n-butyl phthalate = 0.0552 mg·kg⁻¹ pg: 39, 590, 908, 1558, 1579

BW 2/1/22

$a = \cancel{0.0037812}$ -0.040557 $b = 1.4876$ $c = -0.4712$

$$C_x = \frac{-(1.4876) + \sqrt{(1.4876)^2 + 4(-0.040557)\left(\frac{13705 \times 3.2\,\mu g \cdot mL^{-1}}{261821}\right) - (0.4712)}}{2(-0.040557)}$$

$C_x = 0.3310\,\mu g \cdot mL^{-1}$ ✓

BW 2/1/22

$$C_x = \frac{0.3310\,\mu g \cdot mL^{-1} \times 2.5\,mL}{\cancel{0.00150}\ 0.0150\,Kg \times 1000\,\mu g \cdot mg^{-1}} = 0.0552\,mg \cdot kg^{-1}$$ ✓

LCS : 500-637894/2-A 1/17/22 15:19
pentachlorophenol = 73%, 1.93 mg·kg⁻¹ pg: 41, 589, 1565-1566 ✓

$$C_x = \frac{2137099 \times 3.2\,\mu g \cdot mL^{-1}}{2633503 \times 0.2237} = \frac{11.6\,\mu g \cdot mL^{-1} \times 2.5\,mL}{0.015\,Kg \times 1000\,\mu g \cdot mg^{-1}} = 1.93\,mg \cdot kg^{-1}$$

$$\%R = \left(\frac{1.93\,mg \cdot kg^{-1}}{2.64\,mg \cdot kg^{-1}}\right) \times 100 = 72.5\%$$ ✓

500-210259-3 SVOC

Surrogate; SSR-ST-D03-211221 1/17/22 16:32

2-fluorophenol = 148% pg: 274, 38, 591, 271

$$C_X = \frac{309155 \times 3.2\ \mu g \cdot mL^{-1}}{809808 \times 0.8239} = 1.48\ \mu g \cdot mL^{-1} \times DF10 = 14.8\ \mu g \cdot mL^{-1}$$

$$\% R = \left(\frac{14.8\ \mu g \cdot mL^{-1}}{10.0\ \mu g \cdot mL^{-1}} \right) \times 100 = 148\% \checkmark$$

Internal Standard: SSR-ST-G02-211221-D 1/17/22 18:15

pg: 206, 468, 1474

perylene-d12 ; $\frac{176083}{806990} \times 100 = 21.8\%$ ✓

$\Delta RT = 14.316 - 14.282 = 0.034$ ✓

500-210259-3 SVOC

Sample : SSR-SS-D01-211221 1/7/22 15:44

anthracene = 0.33 mg. kg-1 pg: 12, 589, 906, 214, 1579

$$C_x = \frac{(-1.086) \mp \sqrt{(1.086)^2 + 4(-0.006812)\left[\left(\frac{262847 \times 3.2\,\mu g \cdot mL^{-1}}{2644257}\right) - (-0.04197)\right]}}{2(-0.006812)}$$

$C_x = 0.3322\ \mu g \cdot mL^{-1}$ ✓

$$C_x = \frac{0.3323\,\mu g \cdot mL^{-1} \times 2.5\,mL \times DF5}{0.0154413\,kg \times 1000\,\mu g \cdot mg^{-1} \times 0.826} = 0.33\,mg \cdot kg^{-1}$$ ✓

500-210259-3 SVOC

Adjusted RL/MDL ; SSR-ST-DD2-211221 1/17/22 16:08

2-methylphenol $RL = 0.90\ mg \cdot kg^{-1}$ pg: 39, 14

$MDL = 0.29\ mg \cdot kg^{-1}$

Unadjusted 2-methylphenol $RL = 0.17\ mg \cdot kg^{-1}$; $MDL = 0.053\ mg \cdot kg^{-1}$

Adjusted RL:

~~0.0~~ $\frac{0.17\ mg \cdot kg^{-1} \times 2.5\ mL \times 15\ g \times DF5}{2.5\ mL \times 15.6417\ g \times 0.887} = 0.91\ mg \cdot kg^{-1}$ ✓

Adjusted MDL:

$\frac{0.053\ mg \cdot kg \times 2.5\ mL \times 15\ g \times DF5}{2.5\ mL \times 15.6417\ g \times 0.887} = 0.29\ mg \cdot kg^{-1}$ ✓

RMG SITE SVOC INITAL CALIBRATION RECALCULATION
EUROFINS TESTAMERICA REPORT NO. 500-210259-3

Report: 500-210259-3
SVOC - Initial Calibration 1/10/2022
GC-MS Instrument CMS23 **Chrysene** Page: 590-915

Level	1	2	3	4	5	6	7	8	9	10	11
Chrysene Concentration (µg/mL)	0.0400	0.100	0.200	0.400	1.00	2.00	4.00	7.00	10.0	12.0	14.0
Chrysene Response	24849	58725	111986	233504	569569	1165977	2820800	5374228	8249879	10116165	12226975
Chrysene-d12 (µg/mL)	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Chrysene-d_{12} Response	1676051	1610104	1703678	1750269	1745156	1743325	2010797	1886668	2164738	2307076	2543750
RF	1.186	1.167	1.052	1.067	1.044	1.070	1.122	1.302	1.220	1.169	1.099

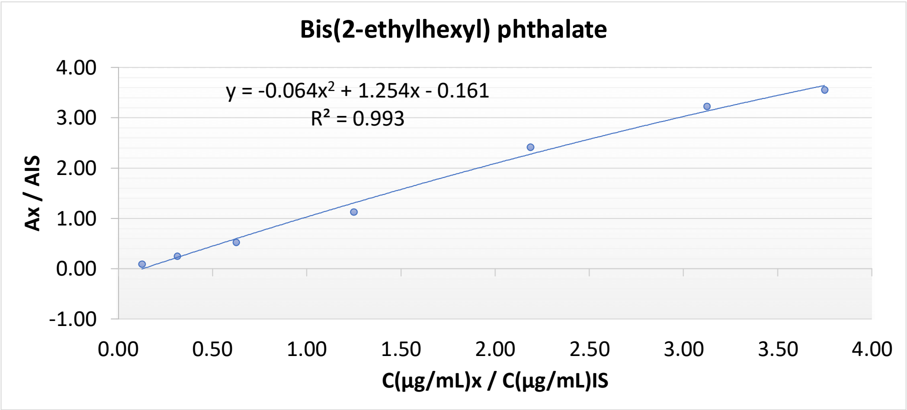
Std Dev: 0.0808
Mean RF: 1.1362 ✓
%RSD: 7.1 ✓

Level 1: 0.0400 µg/mL RF Check	Response	Concentration	Units	Page
Chrysene =	24849	0.040	µg/mL	615
Chrysene-d_{12} =	1676051	3.2	µg/mL	613

$$\frac{24849 \times 3.2}{1676051 \times 0.040} = 1.186$$ ✓

Bis(2-ethylhexyl) phthalate

C(µg/mL)x	C(µg/mL)IS	C(µg/mL)x/C(µg/mL)IS	A_x	A_{IS}	A_x/A_{IS}	RF
0.400	3.2	0.1250	157224	1750269	0.0898	0.719
1.00	3.2	0.3125	427375	1745156	0.2449	0.784
2.00	3.2	0.6250	914371	1743325	0.5245	0.839
4.00	3.2	1.2500	2261937	2010797	1.1249	0.900
7.00	3.2	2.1875	4552613	1886668	2.4130	1.103
10.0	3.2	3.1250	6982742	2164738	3.2257	1.032
12.0	3.2	3.7500	8200565	2307076	3.5545	0.948



*The laboratory utilized inverse concentration squared weighting; therefore, the quadratic equation does not exactly match the laboratory data package.

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-D01-211221	8270D	1,2,4-Trichlorobenzene	0.21	U H ^1+	0.21	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	1,2-Dichlorobenzene	0.23	U H ^1+	0.23	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	1,3-Dichlorobenzene	0.22	U H ^1+	0.22	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	1,4-Dichlorobenzene	0.25	U H ^1+	0.25	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	2,2'-oxybis[1-chloropropane]	0.23	U H ^1+	0.23	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	2,4,5-Trichlorophenol	0.45	U H ^1+	0.45	1.9	mg/Kg	1.9	UJ
SSR-SS-D01-211221	8270D	2,4,6-Trichlorophenol	0.67	U H ^1+	0.67	1.9	mg/Kg	1.9	UJ
SSR-SS-D01-211221	8270D	2,4-Dichlorophenol	0.46	U H ^1+	0.46	1.9	mg/Kg	1.9	UJ
SSR-SS-D01-211221	8270D	2,4-Dimethylphenol	0.74	U H ^1+	0.74	1.9	mg/Kg	1.9	UJ
SSR-SS-D01-211221	8270D	2,4-Dinitrophenol	3.4	U H ^1+	3.4	3.9	mg/Kg	3.9	UJ
SSR-SS-D01-211221	8270D	2,4-Dinitrotoluene	0.31	U H ^1+	0.31	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	2,6-Dinitrotoluene	0.38	U H ^1+	0.38	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	2-Chloronaphthalene	0.22	U H ^1+	0.22	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	2-Chlorophenol	0.33	U H ^1+	0.33	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	2-Methylnaphthalene	0.13	J H ^1+	0.036	0.39	mg/Kg	0.13	J-
SSR-SS-D01-211221	8270D	2-Methylphenol	0.31	U H ^1+	0.31	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	2-Nitroaniline	0.26	U H ^1+	0.26	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	2-Nitrophenol	0.46	U H ^1+	0.46	1.9	mg/Kg	1.9	UJ
SSR-SS-D01-211221	8270D	3 & 4 Methylphenol	0.33	U H ^1+	0.33	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	3,3'-Dichlorobenzidine	0.27	U H ^1+	0.27	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	3-Nitroaniline	0.61	U H ^1+	0.61	1.9	mg/Kg	1.9	UJ
SSR-SS-D01-211221	8270D	4,6-Dinitro-2-methylphenol	1.6	U H ^1+	1.6	3.9	mg/Kg	3.9	UJ
SSR-SS-D01-211221	8270D	4-Bromophenyl phenyl ether	0.26	U H ^1+	0.26	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	4-Chloro-3-methylphenol	0.66	U H ^1+	0.66	1.9	mg/Kg	1.9	UJ
SSR-SS-D01-211221	8270D	4-Chloroaniline	0.92	U H ^1+	0.92	3.9	mg/Kg	3.9	UJ
SSR-SS-D01-211221	8270D	4-Chlorophenyl phenyl ether	0.23	U H ^1+	0.23	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	4-Nitroaniline	0.82	U H ^1+	0.82	1.9	mg/Kg	1.9	UJ
SSR-SS-D01-211221	8270D	4-Nitrophenol	1.9	U H ^1+	1.9	3.9	mg/Kg	3.9	UJ
SSR-SS-D01-211221	8270D	Acenaphthene	0.49	H ^1+	0.035	0.19	mg/Kg	0.49	J-
SSR-SS-D01-211221	8270D	Acenaphthylene	0.052	J H ^1+	0.026	0.19	mg/Kg	0.052	J-
SSR-SS-D01-211221	8270D	Anthracene	0.33	H ^1+	0.033	0.19	mg/Kg	0.33	J-
SSR-SS-D01-211221	8270D	Benzo[a]anthracene	0.87	H ^1+	0.026	0.19	mg/Kg	0.87	J-
SSR-SS-D01-211221	8270D	Benzo[a]pyrene	0.58	H ^1+	0.038	0.19	mg/Kg	0.58	J-
SSR-SS-D01-211221	8270D	Benzo[b]fluoranthene	1.5	H ^1+	0.042	0.19	mg/Kg	1.5	J-
SSR-SS-D01-211221	8270D	Benzo[g,h,i]perylene	0.23	H ^1+	0.063	0.19	mg/Kg	0.23	J-
SSR-SS-D01-211221	8270D	Benzo[k]fluoranthene	0.48	H ^1+	0.058	0.19	mg/Kg	0.48	J-
SSR-SS-D01-211221	8270D	Bis(2-chloroethoxy)methane	0.2	U H ^1+	0.2	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Bis(2-chloroethyl)ether	0.29	U H ^1+	0.29	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Bis(2-ethylhexyl) phthalate	1.4	H ^1+	0.36	0.98	mg/Kg	1.4	J-
SSR-SS-D01-211221	8270D	Butyl benzyl phthalate	0.37	U H ^1+	0.37	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Carbazole	0.49	U H ^1+	0.49	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Chrysene	1.2	H ^1+	0.053	0.19	mg/Kg	1.2	J-
SSR-SS-D01-211221	8270D	Dibenz(a,h)anthracene	0.064	J H ^1+	0.038	0.19	mg/Kg	0.064	J-
SSR-SS-D01-211221	8270D	Dibenzofuran	0.23	U H ^1+	0.23	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Diethyl phthalate	0.33	U H ^1+	0.33	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Dimethyl phthalate	0.26	U H ^1+	0.26	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Di-n-butyl phthalate	0.6	J H B ^1+	0.3	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Di-n-octyl phthalate	0.32	U H ^1+	0.32	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Fluoranthene	3.8	H ^1+	0.036	0.19	mg/Kg	3.8	J-
SSR-SS-D01-211221	8270D	Fluorene	0.24	H ^1+	0.027	0.19	mg/Kg	0.24	J-
SSR-SS-D01-211221	8270D	Hexachlorobenzene	0.045	U H ^1+	0.045	0.39	mg/Kg	0.39	UJ
SSR-SS-D01-211221	8270D	Hexachlorobutadiene	0.31	U H ^1+	0.31	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Hexachlorocyclopentadiene	1.1	U H ^1+	1.1	3.9	mg/Kg	3.9	UJ
SSR-SS-D01-211221	8270D	Hexachloroethane	0.3	U H ^1+	0.3	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Indeno[1,2,3-cd]pyrene	0.2	H ^1+	0.051	0.19	mg/Kg	0.20	J-
SSR-SS-D01-211221	8270D	Isophorone	0.22	U H ^1+	0.22	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Naphthalene	0.14	J H ^1+	0.03	0.19	mg/Kg	0.14	J-

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-D01-211221	8270D	Nitrobenzene	0.049	U H ^1+	0.049	0.19	mg/Kg	0.19	UJ
SSR-SS-D01-211221	8270D	N-Nitrosodi-n-propylamine	0.24	U H ^1+	0.24	0.39	mg/Kg	0.39	UJ
SSR-SS-D01-211221	8270D	N-Nitrosodiphenylamine	0.23	U H ^1+	0.23	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Pentachlorophenol	3.1	U H ^1+	3.1	3.9	mg/Kg	3.9	UJ
SSR-SS-D01-211221	8270D	Phenanthrene	0.86	H ^1+	0.027	0.19	mg/Kg	0.86	J-
SSR-SS-D01-211221	8270D	Phenol	0.43	U H ^1+	0.43	0.98	mg/Kg	0.98	UJ
SSR-SS-D01-211221	8270D	Pyrene	2.2	H ^1+	0.039	0.19	mg/Kg	2.2	J-
SSR-SS-F01-211221	8270D	1,2,4-Trichlorobenzene	0.41	U H	0.41	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	1,2-Dichlorobenzene	0.46	U H	0.46	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	1,3-Dichlorobenzene	0.43	U H	0.43	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	1,4-Dichlorobenzene	0.49	U H	0.49	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	2,2'-oxybis[1-chloropropane]	0.44	U H	0.44	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	2,4,5-Trichlorophenol	0.87	U H	0.87	3.8	mg/Kg	3.8	UJ
SSR-SS-F01-211221	8270D	2,4,6-Trichlorophenol	1.3	U H	1.3	3.8	mg/Kg	3.8	UJ
SSR-SS-F01-211221	8270D	2,4-Dichlorophenol	0.91	U H	0.91	3.8	mg/Kg	3.8	UJ
SSR-SS-F01-211221	8270D	2,4-Dimethylphenol	1.5	U H	1.5	3.8	mg/Kg	3.8	UJ
SSR-SS-F01-211221	8270D	2,4-Dinitrophenol	6.7	U H	6.7	7.7	mg/Kg	7.7	UJ
SSR-SS-F01-211221	8270D	2,4-Dinitrotoluene	0.61	U H	0.61	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	2,6-Dinitrotoluene	0.75	U H	0.75	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	2-Chloronaphthalene	0.42	U H	0.42	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	2-Chlorophenol	0.65	U H	0.65	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	2-Methylnaphthalene	0.32	J H	0.07	0.77	mg/Kg	0.32	J-
SSR-SS-F01-211221	8270D	2-Methylphenol	0.61	U H	0.61	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	2-Nitroaniline	0.51	U H	0.51	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	2-Nitrophenol	0.9	U H	0.9	3.8	mg/Kg	3.8	UJ
SSR-SS-F01-211221	8270D	3 & 4 Methylphenol	0.64	U H	0.64	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	3,3'-Dichlorobenzidine	0.54	U H	0.54	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	3-Nitroaniline	1.2	U H	1.2	3.8	mg/Kg	3.8	UJ
SSR-SS-F01-211221	8270D	4,6-Dinitro-2-methylphenol	3.1	U H	3.1	7.7	mg/Kg	7.7	UJ
SSR-SS-F01-211221	8270D	4-Bromophenyl phenyl ether	0.5	U H	0.5	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	4-Chloro-3-methylphenol	1.3	U H	1.3	3.8	mg/Kg	3.8	UJ
SSR-SS-F01-211221	8270D	4-Chloroaniline	1.8	U H	1.8	7.7	mg/Kg	7.7	UJ
SSR-SS-F01-211221	8270D	4-Chlorophenyl phenyl ether	0.45	U H	0.45	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	4-Nitroaniline	1.6	U H	1.6	3.8	mg/Kg	3.8	UJ
SSR-SS-F01-211221	8270D	4-Nitrophenol	3.6	U H	3.6	7.7	mg/Kg	7.7	UJ
SSR-SS-F01-211221	8270D	Acenaphthene	0.34	J H	0.069	0.38	mg/Kg	0.34	J-
SSR-SS-F01-211221	8270D	Acenaphthylene	0.05	U H	0.05	0.38	mg/Kg	0.38	UJ
SSR-SS-F01-211221	8270D	Anthracene	1	H	0.064	0.38	mg/Kg	1.0	J-
SSR-SS-F01-211221	8270D	Benzo[a]anthracene	2.2	H	0.051	0.38	mg/Kg	2.2	J-
SSR-SS-F01-211221	8270D	Benzo[a]pyrene	2.4	H	0.074	0.38	mg/Kg	2.4	J-
SSR-SS-F01-211221	8270D	Benzo[b]fluoranthene	3.5	H	0.083	0.38	mg/Kg	3.5	J-
SSR-SS-F01-211221	8270D	Benzo[g,h,i]perylene	0.94	H	0.12	0.38	mg/Kg	0.94	J-
SSR-SS-F01-211221	8270D	Benzo[k]fluoranthene	1.5	H	0.11	0.38	mg/Kg	1.5	J-
SSR-SS-F01-211221	8270D	Bis(2-chloroethoxy)methane	0.39	U H	0.39	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Bis(2-chloroethyl)ether	0.57	U H	0.57	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Bis(2-ethylhexyl) phthalate	0.7	U H	0.7	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Butyl benzyl phthalate	0.73	U H	0.73	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Carbazole	0.96	U H	0.96	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Chrysene	2.5	H	0.1	0.38	mg/Kg	2.5	J-
SSR-SS-F01-211221	8270D	Dibenz(a,h)anthracene	0.32	J H	0.074	0.38	mg/Kg	0.32	J-
SSR-SS-F01-211221	8270D	Dibenzofuran	0.45	U H	0.45	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Diethyl phthalate	0.65	U H	0.65	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Dimethyl phthalate	0.5	U H	0.5	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Di-n-butyl phthalate	0.58	U H	0.58	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Di-n-octyl phthalate	0.62	U H	0.62	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Fluoranthene	4.9	H	0.071	0.38	mg/Kg	4.9	J-
SSR-SS-F01-211221	8270D	Fluorene	0.36	J H	0.054	0.38	mg/Kg	0.36	J-

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-F01-211221	8270D	Hexachlorobenzene	0.089	U H	0.089	0.77	mg/Kg	0.77	UJ
SSR-SS-F01-211221	8270D	Hexachlorobutadiene	0.6	U H	0.6	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Hexachlorocyclopentadiene	2.2	U H	2.2	7.7	mg/Kg	7.7	UJ
SSR-SS-F01-211221	8270D	Hexachloroethane	0.58	U H	0.58	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Indeno[1,2,3-cd]pyrene	1.1	H	0.099	0.38	mg/Kg	1.1	J-
SSR-SS-F01-211221	8270D	Isophorone	0.43	U H	0.43	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Naphthalene	0.28	J H	0.059	0.38	mg/Kg	0.28	J-
SSR-SS-F01-211221	8270D	Nitrobenzene	0.095	U H	0.095	0.38	mg/Kg	0.38	UJ
SSR-SS-F01-211221	8270D	N-Nitrosodi-n-propylamine	0.47	U H	0.47	0.77	mg/Kg	0.77	UJ
SSR-SS-F01-211221	8270D	N-Nitrosodiphenylamine	0.45	U H	0.45	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Pentachlorophenol	6.1	U H	6.1	7.7	mg/Kg	7.7	UJ
SSR-SS-F01-211221	8270D	Phenanthrene	3.3	H	0.053	0.38	mg/Kg	3.3	J-
SSR-SS-F01-211221	8270D	Phenol	0.85	U H	0.85	1.9	mg/Kg	1.9	UJ
SSR-SS-F01-211221	8270D	Pyrene	4.1	H	0.076	0.38	mg/Kg	4.1	J-
SSR-SS-G01-211221	8270D	1,2,4-Trichlorobenzene	0.41	U H	0.41	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	1,2-Dichlorobenzene	0.45	U H	0.45	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	1,3-Dichlorobenzene	0.42	U H	0.42	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	1,4-Dichlorobenzene	0.48	U H	0.48	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	2,2'-oxybis[1-chloropropane]	0.44	U H	0.44	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	2,4,5-Trichlorophenol	0.86	U H	0.86	3.7	mg/Kg	3.7	UJ
SSR-SS-G01-211221	8270D	2,4,6-Trichlorophenol	1.3	U H	1.3	3.7	mg/Kg	3.7	UJ
SSR-SS-G01-211221	8270D	2,4-Dichlorophenol	0.89	U H	0.89	3.7	mg/Kg	3.7	UJ
SSR-SS-G01-211221	8270D	2,4-Dimethylphenol	1.4	U H	1.4	3.7	mg/Kg	3.7	UJ
SSR-SS-G01-211221	8270D	2,4-Dinitrophenol	6.6	U H	6.6	7.6	mg/Kg	7.6	UJ
SSR-SS-G01-211221	8270D	2,4-Dinitrotoluene	0.6	U H	0.6	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	2,6-Dinitrotoluene	0.74	U H	0.74	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	2-Chloronaphthalene	0.42	U H	0.42	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	2-Chlorophenol	0.64	U H	0.64	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	2-Methylnaphthalene	0.21	J H	0.069	0.76	mg/Kg	0.21	J-
SSR-SS-G01-211221	8270D	2-Methylphenol	0.6	U H	0.6	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	2-Nitroaniline	0.51	U H	0.51	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	2-Nitrophenol	0.89	U H	0.89	3.7	mg/Kg	3.7	UJ
SSR-SS-G01-211221	8270D	3 & 4 Methylphenol	0.63	U H	0.63	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	3,3'-Dichlorobenzidine	0.53	U H	0.53	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	3-Nitroaniline	1.2	U H	1.2	3.7	mg/Kg	3.7	UJ
SSR-SS-G01-211221	8270D	4,6-Dinitro-2-methylphenol	3	U H	3	7.6	mg/Kg	7.6	UJ
SSR-SS-G01-211221	8270D	4-Bromophenyl phenyl ether	0.5	U H	0.5	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	4-Chloro-3-methylphenol	1.3	U H	1.3	3.7	mg/Kg	3.7	UJ
SSR-SS-G01-211221	8270D	4-Chloroaniline	1.8	U H	1.8	7.6	mg/Kg	7.6	UJ
SSR-SS-G01-211221	8270D	4-Chlorophenyl phenyl ether	0.44	U H	0.44	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	4-Nitroaniline	1.6	U H	1.6	3.7	mg/Kg	3.7	UJ
SSR-SS-G01-211221	8270D	4-Nitrophenol	3.6	U H	3.6	7.6	mg/Kg	7.6	UJ
SSR-SS-G01-211221	8270D	Acenaphthene	0.068	U H	0.068	0.37	mg/Kg	0.37	UJ
SSR-SS-G01-211221	8270D	Acenaphthylene	0.05	U H	0.05	0.37	mg/Kg	0.37	UJ
SSR-SS-G01-211221	8270D	Anthracene	0.066	J H	0.063	0.37	mg/Kg	0.066	J-
SSR-SS-G01-211221	8270D	Benzo[a]anthracene	0.2	J H	0.051	0.37	mg/Kg	0.20	J-
SSR-SS-G01-211221	8270D	Benzo[a]pyrene	0.21	J H	0.073	0.37	mg/Kg	0.21	J-
SSR-SS-G01-211221	8270D	Benzo[b]fluoranthene	0.39	H	0.081	0.37	mg/Kg	0.39	J-
SSR-SS-G01-211221	8270D	Benzo[g,h,i]perylene	0.12	U H	0.12	0.37	mg/Kg	0.37	UJ
SSR-SS-G01-211221	8270D	Benzo[k]fluoranthene	0.14	J H	0.11	0.37	mg/Kg	0.14	J-
SSR-SS-G01-211221	8270D	Bis(2-chloroethoxy)methane	0.38	U H	0.38	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Bis(2-chloroethyl)ether	0.56	U H	0.56	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Bis(2-ethylhexyl) phthalate	0.69	U H	0.69	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Butyl benzyl phthalate	0.72	U H	0.72	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Carbazole	0.94	U H	0.94	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Chrysene	0.28	J H	0.1	0.37	mg/Kg	0.28	J-
SSR-SS-G01-211221	8270D	Dibenz(a,h)anthracene	0.073	U H	0.073	0.37	mg/Kg	0.37	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-SS-G01-211221	8270D	Dibenzofuran	0.44	U H	0.44	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Diethyl phthalate	0.64	U H	0.64	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Dimethyl phthalate	0.49	U H	0.49	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Di-n-butyl phthalate	0.57	U H	0.57	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Di-n-octyl phthalate	0.61	U H	0.61	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Fluoranthene	0.46	H	0.07	0.37	mg/Kg	0.46	J-
SSR-SS-G01-211221	8270D	Fluorene	0.053	U H	0.053	0.37	mg/Kg	0.37	UJ
SSR-SS-G01-211221	8270D	Hexachlorobenzene	0.087	U H	0.087	0.76	mg/Kg	0.76	UJ
SSR-SS-G01-211221	8270D	Hexachlorobutadiene	0.59	U H	0.59	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Hexachlorocyclopentadiene	2.2	U H	2.2	7.6	mg/Kg	7.6	UJ
SSR-SS-G01-211221	8270D	Hexachloroethane	0.57	U H	0.57	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Indeno[1,2,3-cd]pyrene	0.12	J H	0.098	0.37	mg/Kg	0.12	J-
SSR-SS-G01-211221	8270D	Isophorone	0.42	U H	0.42	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Naphthalene	0.098	J H	0.058	0.37	mg/Kg	0.098	J-
SSR-SS-G01-211221	8270D	Nitrobenzene	0.094	U H	0.094	0.37	mg/Kg	0.37	UJ
SSR-SS-G01-211221	8270D	N-Nitrosodi-n-propylamine	0.46	U H	0.46	0.76	mg/Kg	0.76	UJ
SSR-SS-G01-211221	8270D	N-Nitrosodiphenylamine	0.44	U H	0.44	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Pentachlorophenol	6	U H	6	7.6	mg/Kg	7.6	UJ
SSR-SS-G01-211221	8270D	Phenanthrene	0.27	J H	0.052	0.37	mg/Kg	0.27	J-
SSR-SS-G01-211221	8270D	Phenol	0.84	U H	0.84	1.9	mg/Kg	1.9	UJ
SSR-SS-G01-211221	8270D	Pyrene	0.47	H	0.075	0.37	mg/Kg	0.47	J-
SSR-ST-D02-211221	8270D	1,2,4-Trichlorobenzene	0.19	U H	0.19	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	1,2-Dichlorobenzene	0.21	U H	0.21	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	1,3-Dichlorobenzene	0.2	U H	0.2	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	1,4-Dichlorobenzene	0.23	U H	0.23	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	2,2'-oxybis[1-chloropropane]	0.21	U H	0.21	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	2,4,5-Trichlorophenol	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-D02-211221	8270D	2,4,6-Trichlorophenol	0.62	U H	0.62	1.8	mg/Kg	1.8	UJ
SSR-ST-D02-211221	8270D	2,4-Dichlorophenol	0.43	U H	0.43	1.8	mg/Kg	1.8	UJ
SSR-ST-D02-211221	8270D	2,4-Dimethylphenol	0.68	U H	0.68	1.8	mg/Kg	1.8	UJ
SSR-ST-D02-211221	8270D	2,4-Dinitrophenol	3.2	U H	3.2	3.6	mg/Kg	3.6	UJ
SSR-ST-D02-211221	8270D	2,4-Dinitrotoluene	0.29	U H	0.29	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	2,6-Dinitrotoluene	0.35	U H	0.35	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	2-Chloronaphthalene	0.2	U H	0.2	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	2-Chlorophenol	0.31	U H	0.31	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	2-Methylnaphthalene	0.033	J H	0.033	0.36	mg/Kg	0.033	J-
SSR-ST-D02-211221	8270D	2-Methylphenol	0.29	U H	0.29	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	2-Nitroaniline	0.24	U H	0.24	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	2-Nitrophenol	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-ST-D02-211221	8270D	3 & 4 Methylphenol	0.3	U H	0.3	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	3,3'-Dichlorobenzidine	0.25	U H	0.25	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	3-Nitroaniline	0.56	U H	0.56	1.8	mg/Kg	1.8	UJ
SSR-ST-D02-211221	8270D	4,6-Dinitro-2-methylphenol	1.4	U H	1.4	3.6	mg/Kg	3.6	UJ
SSR-ST-D02-211221	8270D	4-Bromophenyl phenyl ether	0.24	U H	0.24	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	4-Chloro-3-methylphenol	0.61	U H	0.61	1.8	mg/Kg	1.8	UJ
SSR-ST-D02-211221	8270D	4-Chloroaniline	0.84	U H	0.84	3.6	mg/Kg	3.6	UJ
SSR-ST-D02-211221	8270D	4-Chlorophenyl phenyl ether	0.21	U H	0.21	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	4-Nitroaniline	0.75	U H	0.75	1.8	mg/Kg	1.8	UJ
SSR-ST-D02-211221	8270D	4-Nitrophenol	1.7	U H	1.7	3.6	mg/Kg	3.6	UJ
SSR-ST-D02-211221	8270D	Acenaphthene	0.032	U H	0.032	0.18	mg/Kg	0.18	UJ
SSR-ST-D02-211221	8270D	Acenaphthylene	0.024	U H	0.024	0.18	mg/Kg	0.18	UJ
SSR-ST-D02-211221	8270D	Anthracene	0.081	J H	0.03	0.18	mg/Kg	0.081	J-
SSR-ST-D02-211221	8270D	Benzo[a]anthracene	0.21	H	0.024	0.18	mg/Kg	0.21	J-
SSR-ST-D02-211221	8270D	Benzo[a]pyrene	0.28	H	0.035	0.18	mg/Kg	0.28	J-
SSR-ST-D02-211221	8270D	Benzo[b]fluoranthene	0.58	H	0.039	0.18	mg/Kg	0.58	J-
SSR-ST-D02-211221	8270D	Benzo[g,h,i]perylene	0.12	J H	0.058	0.18	mg/Kg	0.12	J-
SSR-ST-D02-211221	8270D	Benzo[k]fluoranthene	0.17	J H	0.053	0.18	mg/Kg	0.17	J-

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-D02-211221	8270D	Bis(2-chloroethoxy)methane	0.18	U H	0.18	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Bis(2-chloroethyl)ether	0.27	U H	0.27	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Bis(2-ethylhexyl) phthalate	0.33	U H	0.33	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Butyl benzyl phthalate	0.34	U H	0.34	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Carbazole	0.45	U H	0.45	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Chrysene	0.3	H	0.049	0.18	mg/Kg	0.30	J-
SSR-ST-D02-211221	8270D	Dibenz(a,h)anthracene	0.036	J H	0.035	0.18	mg/Kg	0.18	U
SSR-ST-D02-211221	8270D	Dibenzofuran	0.21	U H	0.21	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Diethyl phthalate	0.3	U H	0.3	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Dimethyl phthalate	0.23	U H	0.23	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Di-n-butyl phthalate	0.3	J H B	0.27	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Di-n-octyl phthalate	0.29	U H	0.29	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Fluoranthene	0.49	H	0.033	0.18	mg/Kg	0.49	J-
SSR-ST-D02-211221	8270D	Fluorene	0.06	J H	0.025	0.18	mg/Kg	0.060	J-
SSR-ST-D02-211221	8270D	Hexachlorobenzene	0.042	U H	0.042	0.36	mg/Kg	0.36	UJ
SSR-ST-D02-211221	8270D	Hexachlorobutadiene	0.28	U H	0.28	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Hexachlorocyclopentadiene	1	U H	1	3.6	mg/Kg	3.6	UJ
SSR-ST-D02-211221	8270D	Hexachloroethane	0.27	U H	0.27	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Indeno[1,2,3-cd]pyrene	0.13	J H	0.047	0.18	mg/Kg	0.13	J-
SSR-ST-D02-211221	8270D	Isophorone	0.2	U H	0.2	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Naphthalene	0.03	J H	0.028	0.18	mg/Kg	0.030	J-
SSR-ST-D02-211221	8270D	Nitrobenzene	0.045	U H	0.045	0.18	mg/Kg	0.18	UJ
SSR-ST-D02-211221	8270D	N-Nitrosodi-n-propylamine	0.22	U H	0.22	0.36	mg/Kg	0.36	UJ
SSR-ST-D02-211221	8270D	N-Nitrosodiphenylamine	0.21	U H	0.21	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Pentachlorophenol	2.9	U H	2.9	3.6	mg/Kg	3.6	UJ
SSR-ST-D02-211221	8270D	Phenanthrene	0.2	H	0.025	0.18	mg/Kg	0.20	J-
SSR-ST-D02-211221	8270D	Phenol	0.4	U H	0.4	0.9	mg/Kg	0.90	UJ
SSR-ST-D02-211221	8270D	Pyrene	0.29	H	0.036	0.18	mg/Kg	0.29	J-
SSR-ST-D03-211221	8270D	1,2,4-Trichlorobenzene	0.43	J H	0.4	1.8	mg/Kg	0.43	J-
SSR-ST-D03-211221	8270D	1,2-Dichlorobenzene	0.44	U H	0.44	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	1,3-Dichlorobenzene	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	1,4-Dichlorobenzene	0.47	U H	0.47	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	2,2'-oxybis[1-chloropropane]	0.43	U H	0.43	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	2,4,5-Trichlorophenol	0.84	U H	0.84	3.7	mg/Kg	3.7	UJ
SSR-ST-D03-211221	8270D	2,4,6-Trichlorophenol	1.3	U H	1.3	3.7	mg/Kg	3.7	UJ
SSR-ST-D03-211221	8270D	2,4-Dichlorophenol	0.87	U H	0.87	3.7	mg/Kg	3.7	UJ
SSR-ST-D03-211221	8270D	2,4-Dimethylphenol	1.4	U H	1.4	3.7	mg/Kg	3.7	UJ
SSR-ST-D03-211221	8270D	2,4-Dinitrophenol	6.5	U H	6.5	7.4	mg/Kg	7.4	UJ
SSR-ST-D03-211221	8270D	2,4-Dinitrotoluene	0.58	U H	0.58	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	2,6-Dinitrotoluene	0.72	U H	0.72	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	2-Chloronaphthalene	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	2-Chlorophenol	0.63	U H	0.63	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	2-Methylnaphthalene	0.24	J H	0.068	0.74	mg/Kg	0.24	J-
SSR-ST-D03-211221	8270D	2-Methylphenol	0.59	U H	0.59	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	2-Nitroaniline	0.5	U H	0.5	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	2-Nitrophenol	0.87	U H	0.87	3.7	mg/Kg	3.7	UJ
SSR-ST-D03-211221	8270D	3 & 4 Methylphenol	0.61	U H	0.61	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	3,3'-Dichlorobenzidine	0.52	U H	0.52	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	3-Nitroaniline	1.1	U H	1.1	3.7	mg/Kg	3.7	UJ
SSR-ST-D03-211221	8270D	4,6-Dinitro-2-methylphenol	3	U H	3	7.4	mg/Kg	7.4	UJ
SSR-ST-D03-211221	8270D	4-Bromophenyl phenyl ether	0.49	U H	0.49	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	4-Chloro-3-methylphenol	1.3	U H	1.3	3.7	mg/Kg	3.7	UJ
SSR-ST-D03-211221	8270D	4-Chloroaniline	1.7	U H	1.7	7.4	mg/Kg	7.4	UJ
SSR-ST-D03-211221	8270D	4-Chlorophenyl phenyl ether	0.43	U H	0.43	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	4-Nitroaniline	1.5	U H	1.5	3.7	mg/Kg	3.7	UJ
SSR-ST-D03-211221	8270D	4-Nitrophenol	3.5	U H	3.5	7.4	mg/Kg	7.4	UJ
SSR-ST-D03-211221	8270D	Acenaphthene	2.5	H	0.066	0.37	mg/Kg	2.5	J-

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-D03-211221	8270D	Acenaphthylene	0.1	J H	0.049	0.37	mg/Kg	0.10	J-
SSR-ST-D03-211221	8270D	Anthracene	1.4	H	0.061	0.37	mg/Kg	1.4	J-
SSR-ST-D03-211221	8270D	Benzo[a]anthracene	2.1	H	0.05	0.37	mg/Kg	2.1	J-
SSR-ST-D03-211221	8270D	Benzo[a]pyrene	1.3	H	0.071	0.37	mg/Kg	1.3	J-
SSR-ST-D03-211221	8270D	Benzo[b]fluoranthene	2.8	H	0.079	0.37	mg/Kg	2.8	J-
SSR-ST-D03-211221	8270D	Benzo[g,h,i]perylene	0.3	J H	0.12	0.37	mg/Kg	0.30	J-
SSR-ST-D03-211221	8270D	Benzo[k]fluoranthene	0.97	H	0.11	0.37	mg/Kg	0.97	J-
SSR-ST-D03-211221	8270D	Bis(2-chloroethoxy)methane	0.38	U H	0.38	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Bis(2-chloroethyl)ether	0.55	U H	0.55	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Bis(2-ethylhexyl) phthalate	5.5	H	0.67	1.8	mg/Kg	5.5	J-
SSR-ST-D03-211221	8270D	Butyl benzyl phthalate	0.7	U H	0.7	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Carbazole	0.92	U H	0.92	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Chrysene	2.4	H	0.1	0.37	mg/Kg	2.4	J-
SSR-ST-D03-211221	8270D	Dibenz(a,h)anthracene	0.089	J H	0.071	0.37	mg/Kg	0.37	U
SSR-ST-D03-211221	8270D	Dibenzofuran	1	J H	0.43	1.8	mg/Kg	1.0	J-
SSR-ST-D03-211221	8270D	Diethyl phthalate	0.62	U H	0.62	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Dimethyl phthalate	0.48	U H	0.48	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Di-n-butyl phthalate	0.71	J H B	0.56	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Di-n-octyl phthalate	0.6	U H	0.6	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Fluoranthene	9.6	H	0.068	0.37	mg/Kg	9.6	J-
SSR-ST-D03-211221	8270D	Fluorene	1.6	H	0.052	0.37	mg/Kg	1.6	J-
SSR-ST-D03-211221	8270D	Hexachlorobenzene	0.085	U H	0.085	0.74	mg/Kg	0.74	UJ
SSR-ST-D03-211221	8270D	Hexachlorobutadiene	0.58	U H	0.58	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Hexachlorocyclopentadiene	2.1	U H	2.1	7.4	mg/Kg	7.4	UJ
SSR-ST-D03-211221	8270D	Hexachloroethane	0.56	U H	0.56	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Indeno[1,2,3-cd]pyrene	0.34	J H	0.095	0.37	mg/Kg	0.34	J-
SSR-ST-D03-211221	8270D	Isophorone	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Naphthalene	0.31	J H	0.057	0.37	mg/Kg	0.31	J-
SSR-ST-D03-211221	8270D	Nitrobenzene	0.092	U H	0.092	0.37	mg/Kg	0.37	UJ
SSR-ST-D03-211221	8270D	N-Nitrosodi-n-propylamine	0.45	U H	0.45	0.74	mg/Kg	0.74	UJ
SSR-ST-D03-211221	8270D	N-Nitrosodiphenylamine	0.43	U H	0.43	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Pentachlorophenol	5.9	U H	5.9	7.4	mg/Kg	7.4	UJ
SSR-ST-D03-211221	8270D	Phenanthrene	4.8	H	0.051	0.37	mg/Kg	4.8	J-
SSR-ST-D03-211221	8270D	Phenol	0.82	U H	0.82	1.8	mg/Kg	1.8	UJ
SSR-ST-D03-211221	8270D	Pyrene	6.9	H	0.073	0.37	mg/Kg	6.9	J-
SSR-ST-D04-211221	8270D	1,2,4-Trichlorobenzene	0.2	U H	0.2	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	1,2-Dichlorobenzene	0.22	U H	0.22	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	1,3-Dichlorobenzene	0.21	U H	0.21	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	1,4-Dichlorobenzene	0.24	U H	0.24	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	2,2'-oxybis[1-chloropropane]	0.22	U H	0.22	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	2,4,5-Trichlorophenol	0.43	U H	0.43	1.9	mg/Kg	1.9	UJ
SSR-ST-D04-211221	8270D	2,4,6-Trichlorophenol	0.64	U H	0.64	1.9	mg/Kg	1.9	UJ
SSR-ST-D04-211221	8270D	2,4-Dichlorophenol	0.44	U H	0.44	1.9	mg/Kg	1.9	UJ
SSR-ST-D04-211221	8270D	2,4-Dimethylphenol	0.71	U H	0.71	1.9	mg/Kg	1.9	UJ
SSR-ST-D04-211221	8270D	2,4-Dinitrophenol	3.3	U H	3.3	3.8	mg/Kg	3.8	UJ
SSR-ST-D04-211221	8270D	2,4-Dinitrotoluene	0.3	U H	0.3	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	2,6-Dinitrotoluene	0.37	U H	0.37	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	2-Chloronaphthalene	0.21	U H	0.21	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	2-Chlorophenol	0.32	U H	0.32	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	2-Methylnaphthalene	0.072	J H	0.034	0.38	mg/Kg	0.072	J-
SSR-ST-D04-211221	8270D	2-Methylphenol	0.3	U H	0.3	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	2-Nitroaniline	0.25	U H	0.25	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	2-Nitrophenol	0.44	U H	0.44	1.9	mg/Kg	1.9	UJ
SSR-ST-D04-211221	8270D	3 & 4 Methylphenol	0.31	U H	0.31	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	3,3'-Dichlorobenzidine	0.26	U H	0.26	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	3-Nitroaniline	0.58	U H	0.58	1.9	mg/Kg	1.9	UJ
SSR-ST-D04-211221	8270D	4,6-Dinitro-2-methylphenol	1.5	U H	1.5	3.8	mg/Kg	3.8	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-D04-211221	8270D	4-Bromophenyl phenyl ether	0.25	U H	0.25	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	4-Chloro-3-methylphenol	0.63	U H	0.63	1.9	mg/Kg	1.9	UJ
SSR-ST-D04-211221	8270D	4-Chloroaniline	0.88	U H	0.88	3.8	mg/Kg	3.8	UJ
SSR-ST-D04-211221	8270D	4-Chlorophenyl phenyl ether	0.22	U H	0.22	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	4-Nitroaniline	0.78	U H	0.78	1.9	mg/Kg	1.9	UJ
SSR-ST-D04-211221	8270D	4-Nitrophenol	1.8	U H	1.8	3.8	mg/Kg	3.8	UJ
SSR-ST-D04-211221	8270D	Acenaphthene	0.48	H	0.034	0.19	mg/Kg	0.48	J-
SSR-ST-D04-211221	8270D	Acenaphthylene	0.057	J H	0.025	0.19	mg/Kg	0.057	J-
SSR-ST-D04-211221	8270D	Anthracene	0.44	H	0.031	0.19	mg/Kg	0.44	J-
SSR-ST-D04-211221	8270D	Benzo[a]anthracene	0.66	H	0.025	0.19	mg/Kg	0.66	J-
SSR-ST-D04-211221	8270D	Benzo[a]pyrene	0.46	H	0.036	0.19	mg/Kg	0.46	J-
SSR-ST-D04-211221	8270D	Benzo[b]fluoranthene	0.82	H	0.04	0.19	mg/Kg	0.82	J-
SSR-ST-D04-211221	8270D	Benzo[g,h,i]perylene	0.22	H	0.06	0.19	mg/Kg	0.22	J-
SSR-ST-D04-211221	8270D	Benzo[k]fluoranthene	0.38	H	0.055	0.19	mg/Kg	0.38	J-
SSR-ST-D04-211221	8270D	Bis(2-chloroethoxy)methane	0.19	U H	0.19	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Bis(2-chloroethyl)ether	0.28	U H	0.28	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Bis(2-ethylhexyl) phthalate	0.63	J H	0.34	0.94	mg/Kg	0.63	J-
SSR-ST-D04-211221	8270D	Butyl benzyl phthalate	0.35	U H	0.35	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Carbazole	0.47	U H	0.47	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Chrysene	0.77	H	0.051	0.19	mg/Kg	0.77	J-
SSR-ST-D04-211221	8270D	Dibenz(a,h)anthracene	0.058	J H	0.036	0.19	mg/Kg	0.19	U
SSR-ST-D04-211221	8270D	Dibenzofuran	0.22	U H	0.22	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Diethyl phthalate	0.32	U H	0.32	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Dimethyl phthalate	0.24	U H	0.24	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Di-n-butyl phthalate	0.28	U H	0.28	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Di-n-octyl phthalate	0.3	U H	0.3	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Fluoranthene	2.4	H	0.035	0.19	mg/Kg	2.4	J-
SSR-ST-D04-211221	8270D	Fluorene	0.29	H	0.026	0.19	mg/Kg	0.29	J-
SSR-ST-D04-211221	8270D	Hexachlorobenzene	0.043	U H	0.043	0.38	mg/Kg	0.38	UJ
SSR-ST-D04-211221	8270D	Hexachlorobutadiene	0.29	U H	0.29	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Hexachlorocyclopentadiene	1.1	U H	1.1	3.8	mg/Kg	3.8	UJ
SSR-ST-D04-211221	8270D	Hexachloroethane	0.28	U H	0.28	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Indeno[1,2,3-cd]pyrene	0.23	H	0.048	0.19	mg/Kg	0.23	J-
SSR-ST-D04-211221	8270D	Isophorone	0.21	U H	0.21	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Naphthalene	0.087	J H	0.029	0.19	mg/Kg	0.087	J-
SSR-ST-D04-211221	8270D	Nitrobenzene	0.047	U H	0.047	0.19	mg/Kg	0.19	UJ
SSR-ST-D04-211221	8270D	N-Nitrosodi-n-propylamine	0.23	U H	0.23	0.38	mg/Kg	0.38	UJ
SSR-ST-D04-211221	8270D	N-Nitrosodiphenylamine	0.22	U H	0.22	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Pentachlorophenol	3	U H	3	3.8	mg/Kg	3.8	UJ
SSR-ST-D04-211221	8270D	Phenanthrene	0.73	H	0.026	0.19	mg/Kg	0.73	J-
SSR-ST-D04-211221	8270D	Phenol	0.41	U H	0.41	0.94	mg/Kg	0.94	UJ
SSR-ST-D04-211221	8270D	Pyrene	1.9	H	0.037	0.19	mg/Kg	1.9	J-
SSR-ST-F02-211221	8270D	1,2,4-Trichlorobenzene	0.2	U H	0.2	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	1,2-Dichlorobenzene	0.22	U H	0.22	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	1,3-Dichlorobenzene	0.21	U H	0.21	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	1,4-Dichlorobenzene	0.23	U H	0.23	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	2,2'-oxybis[1-chloropropane]	0.21	U H	0.21	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	2,4,5-Trichlorophenol	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-ST-F02-211221	8270D	2,4,6-Trichlorophenol	0.63	U H	0.63	1.8	mg/Kg	1.8	UJ
SSR-ST-F02-211221	8270D	2,4-Dichlorophenol	0.43	U H	0.43	1.8	mg/Kg	1.8	UJ
SSR-ST-F02-211221	8270D	2,4-Dimethylphenol	0.69	U H	0.69	1.8	mg/Kg	1.8	UJ
SSR-ST-F02-211221	8270D	2,4-Dinitrophenol	3.2	U H	3.2	3.7	mg/Kg	3.7	UJ
SSR-ST-F02-211221	8270D	2,4-Dinitrotoluene	0.29	U H	0.29	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	2,6-Dinitrotoluene	0.36	U H	0.36	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	2-Chloronaphthalene	0.2	U H	0.2	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	2-Chlorophenol	0.31	U H	0.31	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	2-Methylnaphthalene	0.57	H	0.034	0.37	mg/Kg	0.57	J-

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-F02-211221	8270D	2-Methylphenol	0.29	U H	0.29	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	2-Nitroaniline	0.25	U H	0.25	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	2-Nitrophenol	0.43	U H	0.43	1.8	mg/Kg	1.8	UJ
SSR-ST-F02-211221	8270D	3 & 4 Methylphenol	0.3	U H	0.3	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	3,3'-Dichlorobenzidine	0.26	U H	0.26	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	3-Nitroaniline	0.57	U H	0.57	1.8	mg/Kg	1.8	UJ
SSR-ST-F02-211221	8270D	4,6-Dinitro-2-methylphenol	1.5	U H	1.5	3.7	mg/Kg	3.7	UJ
SSR-ST-F02-211221	8270D	4-Bromophenyl phenyl ether	0.24	U H	0.24	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	4-Chloro-3-methylphenol	0.62	U H	0.62	1.8	mg/Kg	1.8	UJ
SSR-ST-F02-211221	8270D	4-Chloroaniline	0.86	U H	0.86	3.7	mg/Kg	3.7	UJ
SSR-ST-F02-211221	8270D	4-Chlorophenyl phenyl ether	0.21	U H	0.21	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	4-Nitroaniline	0.76	U H	0.76	1.8	mg/Kg	1.8	UJ
SSR-ST-F02-211221	8270D	4-Nitrophenol	1.7	U H	1.7	3.7	mg/Kg	3.7	UJ
SSR-ST-F02-211221	8270D	Acenaphthene	0.071	J H	0.033	0.18	mg/Kg	0.071	J-
SSR-ST-F02-211221	8270D	Acenaphthylene	0.024	U H	0.024	0.18	mg/Kg	0.18	UJ
SSR-ST-F02-211221	8270D	Anthracene	0.091	J H	0.03	0.18	mg/Kg	0.091	J-
SSR-ST-F02-211221	8270D	Benzo[a]anthracene	0.29	H	0.025	0.18	mg/Kg	0.29	J-
SSR-ST-F02-211221	8270D	Benzo[a]pyrene	0.33	H	0.035	0.18	mg/Kg	0.33	J-
SSR-ST-F02-211221	8270D	Benzo[b]fluoranthene	0.48	H	0.039	0.18	mg/Kg	0.48	J-
SSR-ST-F02-211221	8270D	Benzo[g,h,i]perylene	0.16	J H	0.059	0.18	mg/Kg	0.16	J-
SSR-ST-F02-211221	8270D	Benzo[k]fluoranthene	0.15	J H	0.054	0.18	mg/Kg	0.15	J-
SSR-ST-F02-211221	8270D	Bis(2-chloroethoxy)methane	0.19	U H	0.19	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Bis(2-chloroethyl)ether	0.27	U H	0.27	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Bis(2-ethylhexyl) phthalate	0.33	U H	0.33	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Butyl benzyl phthalate	0.35	U H	0.35	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Carbazole	0.46	U H	0.46	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Chrysene	0.51	H	0.05	0.18	mg/Kg	0.51	J-
SSR-ST-F02-211221	8270D	Dibenz(a,h)anthracene	0.048	J H	0.035	0.18	mg/Kg	0.18	U
SSR-ST-F02-211221	8270D	Dibenzofuran	0.21	U H	0.21	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Diethyl phthalate	0.31	U H	0.31	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Dimethyl phthalate	0.24	U H	0.24	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Di-n-butyl phthalate	0.28	U H	0.28	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Di-n-octyl phthalate	0.3	U H	0.3	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Fluoranthene	0.57	H	0.034	0.18	mg/Kg	0.57	J-
SSR-ST-F02-211221	8270D	Fluorene	0.026	U H	0.026	0.18	mg/Kg	0.18	UJ
SSR-ST-F02-211221	8270D	Hexachlorobenzene	0.042	U H	0.042	0.37	mg/Kg	0.37	UJ
SSR-ST-F02-211221	8270D	Hexachlorobutadiene	0.29	U H	0.29	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Hexachlorocyclopentadiene	1	U H	1	3.7	mg/Kg	3.7	UJ
SSR-ST-F02-211221	8270D	Hexachloroethane	0.28	U H	0.28	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Indeno[1,2,3-cd]pyrene	0.13	J H	0.047	0.18	mg/Kg	0.13	J-
SSR-ST-F02-211221	8270D	Isophorone	0.2	U H	0.2	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Naphthalene	0.24	H	0.028	0.18	mg/Kg	0.24	J-
SSR-ST-F02-211221	8270D	Nitrobenzene	0.046	U H	0.046	0.18	mg/Kg	0.18	UJ
SSR-ST-F02-211221	8270D	N-Nitrosodi-n-propylamine	0.22	U H	0.22	0.37	mg/Kg	0.37	UJ
SSR-ST-F02-211221	8270D	N-Nitrosodiphenylamine	0.22	U H	0.22	0.92	mg/Kg	0.92	UJ
SSR-ST-F02-211221	8270D	Pentachlorophenol	2.9	U H	2.9	3.7	mg/Kg	3.7	UJ
SSR-ST-F02-211221	8270D	Phenanthrene	0.48	H	0.025	0.18	mg/Kg	0.48	J-
SSR-ST-F02-211221	8270D	Phenol	0.47	J H	0.41	0.92	mg/Kg	0.47	J-
SSR-ST-F02-211221	8270D	Pyrene	0.066	J H	0.036	0.18	mg/Kg	0.066	J-
SSR-ST-F03-211221	8270D	1,2,4-Trichlorobenzene	0.38	U H	0.38	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	1,2-Dichlorobenzene	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	1,3-Dichlorobenzene	0.39	U H	0.39	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	1,4-Dichlorobenzene	0.45	U H	0.45	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	2,2'-oxybis[1-chloropropane]	0.4	U H	0.4	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	2,4,5-Trichlorophenol	0.79	U H	0.79	3.5	mg/Kg	3.5	UJ
SSR-ST-F03-211221	8270D	2,4,6-Trichlorophenol	1.2	U H	1.2	3.5	mg/Kg	3.5	UJ
SSR-ST-F03-211221	8270D	2,4-Dichlorophenol	0.83	U H	0.83	3.5	mg/Kg	3.5	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-F03-211221	8270D	2,4-Dimethylphenol	1.3	U H	1.3	3.5	mg/Kg	3.5	UJ
SSR-ST-F03-211221	8270D	2,4-Dinitrophenol	6.1	U H	6.1	7	mg/Kg	7.0	UJ
SSR-ST-F03-211221	8270D	2,4-Dinitrotoluene	0.55	U H	0.55	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	2,6-Dinitrotoluene	0.68	U H	0.68	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	2-Chloronaphthalene	0.38	U H	0.38	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	2-Chlorophenol	0.59	U H	0.59	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	2-Methylnaphthalene	0.46	J H	0.064	0.7	mg/Kg	0.46	J-
SSR-ST-F03-211221	8270D	2-Methylphenol	0.56	U H	0.56	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	2-Nitroaniline	0.47	U H	0.47	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	2-Nitrophenol	0.82	U H	0.82	3.5	mg/Kg	3.5	UJ
SSR-ST-F03-211221	8270D	3 & 4 Methylphenol	0.58	U H	0.58	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	3,3'-Dichlorobenzidine	0.49	U H	0.49	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	3-Nitroaniline	1.1	U H	1.1	3.5	mg/Kg	3.5	UJ
SSR-ST-F03-211221	8270D	4,6-Dinitro-2-methylphenol	2.8	U H	2.8	7	mg/Kg	7.0	UJ
SSR-ST-F03-211221	8270D	4-Bromophenyl phenyl ether	0.46	U H	0.46	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	4-Chloro-3-methylphenol	1.2	U H	1.2	3.5	mg/Kg	3.5	UJ
SSR-ST-F03-211221	8270D	4-Chloroaniline	1.6	U H	1.6	7	mg/Kg	7.0	UJ
SSR-ST-F03-211221	8270D	4-Chlorophenyl phenyl ether	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	4-Nitroaniline	1.5	U H	1.5	3.5	mg/Kg	3.5	UJ
SSR-ST-F03-211221	8270D	4-Nitrophenol	3.3	U H	3.3	7	mg/Kg	7.0	UJ
SSR-ST-F03-211221	8270D	Acenaphthene	0.27	J H	0.063	0.35	mg/Kg	0.27	J-
SSR-ST-F03-211221	8270D	Acenaphthylene	0.046	J H	0.046	0.35	mg/Kg	0.046	J-
SSR-ST-F03-211221	8270D	Anthracene	0.64	H	0.058	0.35	mg/Kg	0.64	J-
SSR-ST-F03-211221	8270D	Benzo[a]anthracene	2	H	0.047	0.35	mg/Kg	2.0	J-
SSR-ST-F03-211221	8270D	Benzo[a]pyrene	2.1	H	0.067	0.35	mg/Kg	2.1	J-
SSR-ST-F03-211221	8270D	Benzo[b]fluoranthene	3.1	H	0.075	0.35	mg/Kg	3.1	J-
SSR-ST-F03-211221	8270D	Benzo[g,h,i]perylene	0.79	H	0.11	0.35	mg/Kg	0.79	J-
SSR-ST-F03-211221	8270D	Benzo[k]fluoranthene	1.2	H	0.1	0.35	mg/Kg	1.2	J-
SSR-ST-F03-211221	8270D	Bis(2-chloroethoxy)methane	0.36	U H	0.36	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Bis(2-chloroethyl)ether	0.52	U H	0.52	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Bis(2-ethylhexyl) phthalate	0.64	J H	0.64	1.8	mg/Kg	0.64	J-
SSR-ST-F03-211221	8270D	Butyl benzyl phthalate	0.66	U H	0.66	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Carbazole	0.87	U H	0.87	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Chrysene	2.3	H	0.095	0.35	mg/Kg	2.3	J-
SSR-ST-F03-211221	8270D	Dibenz(a,h)anthracene	0.26	J H	0.067	0.35	mg/Kg	0.26	J-
SSR-ST-F03-211221	8270D	Dibenzofuran	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Diethyl phthalate	0.59	U H	0.59	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Dimethyl phthalate	0.46	U H	0.46	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Di-n-butyl phthalate	0.53	U H	0.53	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Di-n-octyl phthalate	0.57	U H	0.57	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Fluoranthene	3.9	H	0.065	0.35	mg/Kg	3.9	J-
SSR-ST-F03-211221	8270D	Fluorene	0.31	J H	0.049	0.35	mg/Kg	0.31	J-
SSR-ST-F03-211221	8270D	Hexachlorobenzene	0.081	U H	0.081	0.7	mg/Kg	0.70	UJ
SSR-ST-F03-211221	8270D	Hexachlorobutadiene	0.55	U H	0.55	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Hexachlorocyclopentadiene	2	U H	2	7	mg/Kg	7.0	UJ
SSR-ST-F03-211221	8270D	Hexachloroethane	0.53	U H	0.53	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Indeno[1,2,3-cd]pyrene	0.85	H	0.09	0.35	mg/Kg	0.85	J-
SSR-ST-F03-211221	8270D	Isophorone	0.39	U H	0.39	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Naphthalene	0.32	J H	0.054	0.35	mg/Kg	0.32	J-
SSR-ST-F03-211221	8270D	Nitrobenzene	0.087	U H	0.087	0.35	mg/Kg	0.35	UJ
SSR-ST-F03-211221	8270D	N-Nitrosodi-n-propylamine	0.43	U H	0.43	0.7	mg/Kg	0.70	UJ
SSR-ST-F03-211221	8270D	N-Nitrosodiphenylamine	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Pentachlorophenol	5.6	U H	5.6	7	mg/Kg	7.0	UJ
SSR-ST-F03-211221	8270D	Phenanthrene	2.5	H	0.049	0.35	mg/Kg	2.5	J-
SSR-ST-F03-211221	8270D	Phenol	0.77	U H	0.77	1.8	mg/Kg	1.8	UJ
SSR-ST-F03-211221	8270D	Pyrene	3.6	H	0.069	0.35	mg/Kg	3.6	J-
SSR-ST-G02-211221	8270D	1,2,4-Trichlorobenzene	0.19	U H	0.19	0.89	mg/Kg	0.89	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-G02-211221	8270D	1,2-Dichlorobenzene	0.21	U H	0.21	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	1,3-Dichlorobenzene	0.2	U H	0.2	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	1,4-Dichlorobenzene	0.23	U H	0.23	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	2,2'-oxybis[1-chloropropane]	0.21	U H	0.21	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	2,4,5-Trichlorophenol	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221	8270D	2,4,6-Trichlorophenol	0.61	U H	0.61	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221	8270D	2,4-Dichlorophenol	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221	8270D	2,4-Dimethylphenol	0.67	U H	0.67	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221	8270D	2,4-Dinitrophenol	3.1	U H	3.1	3.6	mg/Kg	3.6	UJ
SSR-ST-G02-211221	8270D	2,4-Dinitrotoluene	0.28	U H	0.28	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	2,6-Dinitrotoluene	0.35	U H	0.35	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	2-Chloronaphthalene	0.2	U H	0.2	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	2-Chlorophenol	0.3	U H	0.3	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	2-Methylnaphthalene	0.27	J H	0.033	0.36	mg/Kg	0.27	J-
SSR-ST-G02-211221	8270D	2-Methylphenol	0.29	U H	0.29	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	2-Nitroaniline	0.24	U H	0.24	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	2-Nitrophenol	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221	8270D	3 & 4 Methylphenol	0.3	U H	0.3	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	3,3'-Dichlorobenzidine	0.25	U H	0.25	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	3-Nitroaniline	0.55	U H	0.55	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221	8270D	4,6-Dinitro-2-methylphenol	1.4	U H	1.4	3.6	mg/Kg	3.6	UJ
SSR-ST-G02-211221	8270D	4-Bromophenyl phenyl ether	0.23	U H	0.23	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	4-Chloro-3-methylphenol	0.6	U H	0.6	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221	8270D	4-Chloroaniline	0.83	U H	0.83	3.6	mg/Kg	3.6	UJ
SSR-ST-G02-211221	8270D	4-Chlorophenyl phenyl ether	0.21	U H	0.21	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	4-Nitroaniline	0.74	U H	0.74	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221	8270D	4-Nitrophenol	1.7	U H	1.7	3.6	mg/Kg	3.6	UJ
SSR-ST-G02-211221	8270D	Acenaphthene	0.041	J H	0.032	0.18	mg/Kg	0.041	J-
SSR-ST-G02-211221	8270D	Acenaphthylene	0.023	U H	0.023	0.18	mg/Kg	0.18	UJ
SSR-ST-G02-211221	8270D	Anthracene	0.071	J H	0.03	0.18	mg/Kg	0.071	J-
SSR-ST-G02-211221	8270D	Benzo[a]anthracene	0.17	J H	0.024	0.18	mg/Kg	0.17	J-
SSR-ST-G02-211221	8270D	Benzo[a]pyrene	0.2	H	0.034	0.18	mg/Kg	0.20	J-
SSR-ST-G02-211221	8270D	Benzo[b]fluoranthene	0.37	H	0.038	0.18	mg/Kg	0.37	J-
SSR-ST-G02-211221	8270D	Benzo[g,h,i]perylene	0.12	J H	0.057	0.18	mg/Kg	0.12	J-
SSR-ST-G02-211221	8270D	Benzo[k]fluoranthene	0.16	J H	0.052	0.18	mg/Kg	0.16	J-
SSR-ST-G02-211221	8270D	Bis(2-chloroethoxy)methane	0.18	U H	0.18	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Bis(2-chloroethyl)ether	0.27	U H	0.27	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Bis(2-ethylhexyl) phthalate	0.32	U H	0.32	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Butyl benzyl phthalate	0.34	U H	0.34	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Carbazole	0.44	U H	0.44	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Chrysene	0.25	H	0.048	0.18	mg/Kg	0.25	J-
SSR-ST-G02-211221	8270D	Dibenz(a,h)anthracene	0.034	U H	0.034	0.18	mg/Kg	0.18	UJ
SSR-ST-G02-211221	8270D	Dibenzofuran	0.21	U H	0.21	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Diethyl phthalate	0.3	U H	0.3	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Dimethyl phthalate	0.23	U H	0.23	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Di-n-butyl phthalate	0.27	U H	0.27	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Di-n-octyl phthalate	0.29	U H	0.29	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Fluoranthene	0.35	H	0.033	0.18	mg/Kg	0.35	J-
SSR-ST-G02-211221	8270D	Fluorene	0.025	U H	0.025	0.18	mg/Kg	0.18	UJ
SSR-ST-G02-211221	8270D	Hexachlorobenzene	0.041	U H	0.041	0.36	mg/Kg	0.36	UJ
SSR-ST-G02-211221	8270D	Hexachlorobutadiene	0.28	U H	0.28	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Hexachlorocyclopentadiene	1	U H	1	3.6	mg/Kg	3.6	UJ
SSR-ST-G02-211221	8270D	Hexachloroethane	0.27	U H	0.27	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Indeno[1,2,3-cd]pyrene	0.11	J H	0.046	0.18	mg/Kg	0.11	J-
SSR-ST-G02-211221	8270D	Isophorone	0.2	U H	0.2	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Naphthalene	0.19	H	0.027	0.18	mg/Kg	0.19	J-
SSR-ST-G02-211221	8270D	Nitrobenzene	0.044	U H	0.044	0.18	mg/Kg	0.18	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-G02-211221	8270D	N-Nitrosodi-n-propylamine	0.22	U H	0.22	0.36	mg/Kg	0.36	UJ
SSR-ST-G02-211221	8270D	N-Nitrosodiphenylamine	0.21	U H	0.21	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Pentachlorophenol	2.9	U H	2.9	3.6	mg/Kg	3.6	UJ
SSR-ST-G02-211221	8270D	Phenanthrene	0.27	H	0.025	0.18	mg/Kg	0.27	J-
SSR-ST-G02-211221	8270D	Phenol	0.39	U H	0.39	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221	8270D	Pyrene	0.35	H	0.035	0.18	mg/Kg	0.35	J-
SSR-ST-G02-211221-D	8270D	1,2,4-Trichlorobenzene	0.19	U H	0.19	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	1,2-Dichlorobenzene	0.21	U H	0.21	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	1,3-Dichlorobenzene	0.2	U H	0.2	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	1,4-Dichlorobenzene	0.23	U H	0.23	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	2,2'-oxybis[1-chloropropane]	0.2	U H	0.2	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	2,4,5-Trichlorophenol	0.4	U H	0.4	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221-D	8270D	2,4,6-Trichlorophenol	0.61	U H	0.61	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221-D	8270D	2,4-Dichlorophenol	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221-D	8270D	2,4-Dimethylphenol	0.67	U H	0.67	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221-D	8270D	2,4-Dinitrophenol	3.1	U H	3.1	3.6	mg/Kg	3.6	UJ
SSR-ST-G02-211221-D	8270D	2,4-Dinitrotoluene	0.28	U H	0.28	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	2,6-Dinitrotoluene	0.35	U H	0.35	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	2-Chloronaphthalene	0.2	U H	0.2	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	2-Chlorophenol	0.3	U H	0.3	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	2-Methylnaphthalene	0.063	J H	0.033	0.36	mg/Kg	0.063	J-
SSR-ST-G02-211221-D	8270D	2-Methylphenol	0.28	U H	0.28	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	2-Nitroaniline	0.24	U H	0.24	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	2-Nitrophenol	0.42	U H	0.42	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221-D	8270D	3 & 4 Methylphenol	0.29	U H	0.29	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	3,3'-Dichlorobenzidine	0.25	U H ^1+	0.25	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	3-Nitroaniline	0.55	U H	0.55	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221-D	8270D	4,6-Dinitro-2-methylphenol	1.4	U H	1.4	3.6	mg/Kg	3.6	UJ
SSR-ST-G02-211221-D	8270D	4-Bromophenyl phenyl ether	0.23	U H	0.23	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	4-Chloro-3-methylphenol	0.6	U H	0.6	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221-D	8270D	4-Chloroaniline	0.83	U H	0.83	3.6	mg/Kg	3.6	UJ
SSR-ST-G02-211221-D	8270D	4-Chlorophenyl phenyl ether	0.21	U H	0.21	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	4-Nitroaniline	0.74	U H	0.74	1.8	mg/Kg	1.8	UJ
SSR-ST-G02-211221-D	8270D	4-Nitrophenol	1.7	U H	1.7	3.6	mg/Kg	3.6	UJ
SSR-ST-G02-211221-D	8270D	Acenaphthene	0.032	U H	0.032	0.18	mg/Kg	0.18	UJ
SSR-ST-G02-211221-D	8270D	Acenaphthylene	0.023	U H	0.023	0.18	mg/Kg	0.18	UJ
SSR-ST-G02-211221-D	8270D	Anthracene	0.096	J H	0.03	0.18	mg/Kg	0.096	J-
SSR-ST-G02-211221-D	8270D	Benzo[a]anthracene	0.51	H	0.024	0.18	mg/Kg	0.51	J-
SSR-ST-G02-211221-D	8270D	Benzo[a]pyrene	0.74	H *3	0.034	0.18	mg/Kg	0.74	J
SSR-ST-G02-211221-D	8270D	Benzo[b]fluoranthene	1.3	H *3	0.038	0.18	mg/Kg	1.3	J
SSR-ST-G02-211221-D	8270D	Benzo[g,h,i]perylene	0.23	H *3	0.057	0.18	mg/Kg	0.23	J
SSR-ST-G02-211221-D	8270D	Benzo[k]fluoranthene	0.53	H *3	0.052	0.18	mg/Kg	0.53	J
SSR-ST-G02-211221-D	8270D	Bis(2-chloroethoxy)methane	0.18	U H	0.18	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	Bis(2-chloroethyl)ether	0.26	U H	0.26	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	Bis(2-ethylhexyl) phthalate	7.1	H	0.32	0.89	mg/Kg	7.1	J-
SSR-ST-G02-211221-D	8270D	Butyl benzyl phthalate	0.62	J H	0.34	0.89	mg/Kg	0.62	J-
SSR-ST-G02-211221-D	8270D	Carbazole	0.44	U H ^1+	0.44	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	Chrysene	0.62	H	0.048	0.18	mg/Kg	0.62	J-
SSR-ST-G02-211221-D	8270D	Dibenz(a,h)anthracene	0.034	U H *3	0.034	0.18	mg/Kg	0.18	UJ
SSR-ST-G02-211221-D	8270D	Dibenzofuran	0.21	U H	0.21	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	Diethyl phthalate	0.3	U H	0.3	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	Dimethyl phthalate	0.33	J H	0.23	0.89	mg/Kg	0.33	J-
SSR-ST-G02-211221-D	8270D	Di-n-butyl phthalate	0.27	U H	0.27	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	Di-n-octyl phthalate	0.29	U H	0.29	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	Fluoranthene	0.72	H	0.033	0.18	mg/Kg	0.72	J-
SSR-ST-G02-211221-D	8270D	Fluorene	0.035	J H	0.025	0.18	mg/Kg	0.035	J-
SSR-ST-G02-211221-D	8270D	Hexachlorobenzene	0.041	U H	0.041	0.36	mg/Kg	0.36	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-G02-211221-D	8270D	Hexachlorobutadiene	0.28	U H	0.28	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	Hexachlorocyclopentadiene	1	U H	1	3.6	mg/Kg	3.6	UJ
SSR-ST-G02-211221-D	8270D	Hexachloroethane	0.27	U H	0.27	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	Indeno[1,2,3-cd]pyrene	0.046	U H *3	0.046	0.18	mg/Kg	0.18	UJ
SSR-ST-G02-211221-D	8270D	Isophorone	0.2	U H	0.2	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	Naphthalene	0.044	J H	0.027	0.18	mg/Kg	0.044	J-
SSR-ST-G02-211221-D	8270D	Nitrobenzene	0.044	U H	0.044	0.18	mg/Kg	0.18	UJ
SSR-ST-G02-211221-D	8270D	N-Nitrosodi-n-propylamine	0.22	U H	0.22	0.36	mg/Kg	0.36	UJ
SSR-ST-G02-211221-D	8270D	N-Nitrosodiphenylamine	0.21	U H	0.21	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	Pentachlorophenol	2.8	U H	2.8	3.6	mg/Kg	3.6	UJ
SSR-ST-G02-211221-D	8270D	Phenanthrene	0.35	H	0.025	0.18	mg/Kg	0.35	J-
SSR-ST-G02-211221-D	8270D	Phenol	0.39	U H	0.39	0.89	mg/Kg	0.89	UJ
SSR-ST-G02-211221-D	8270D	Pyrene	1.3	H	0.035	0.18	mg/Kg	1.3	J-
SSR-ST-G03-211221	8270D	1,2,4-Trichlorobenzene	0.19	U H	0.19	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	1,2-Dichlorobenzene	0.22	U H	0.22	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	1,3-Dichlorobenzene	0.2	U H	0.2	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	1,4-Dichlorobenzene	0.23	U H	0.23	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	2,2'-oxybis[1-chloropropane]	0.21	U H	0.21	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	2,4,5-Trichlorophenol	0.41	U H	0.41	1.8	mg/Kg	1.8	UJ
SSR-ST-G03-211221	8270D	2,4,6-Trichlorophenol	0.62	U H	0.62	1.8	mg/Kg	1.8	UJ
SSR-ST-G03-211221	8270D	2,4-Dichlorophenol	0.43	U H	0.43	1.8	mg/Kg	1.8	UJ
SSR-ST-G03-211221	8270D	2,4-Dimethylphenol	0.68	U H	0.68	1.8	mg/Kg	1.8	UJ
SSR-ST-G03-211221	8270D	2,4-Dinitrophenol	3.2	U H	3.2	3.6	mg/Kg	3.6	UJ
SSR-ST-G03-211221	8270D	2,4-Dinitrotoluene	0.29	U H	0.29	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	2,6-Dinitrotoluene	0.35	U H	0.35	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	2-Chloronaphthalene	0.2	U H	0.2	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	2-Chlorophenol	0.31	U H	0.31	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	2-Methylnaphthalene	0.074	J H	0.033	0.36	mg/Kg	0.074	J-
SSR-ST-G03-211221	8270D	2-Methylphenol	0.29	U H	0.29	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	2-Nitroaniline	0.24	U H	0.24	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	2-Nitrophenol	0.43	U H	0.43	1.8	mg/Kg	1.8	UJ
SSR-ST-G03-211221	8270D	3 & 4 Methylphenol	0.3	U H	0.3	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	3,3'-Dichlorobenzidine	0.25	U H	0.25	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	3-Nitroaniline	0.56	U H	0.56	1.8	mg/Kg	1.8	UJ
SSR-ST-G03-211221	8270D	4,6-Dinitro-2-methylphenol	1.4	U H	1.4	3.6	mg/Kg	3.6	UJ
SSR-ST-G03-211221	8270D	4-Bromophenyl phenyl ether	0.24	U H	0.24	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	4-Chloro-3-methylphenol	0.61	U H	0.61	1.8	mg/Kg	1.8	UJ
SSR-ST-G03-211221	8270D	4-Chloroaniline	0.85	U H	0.85	3.6	mg/Kg	3.6	UJ
SSR-ST-G03-211221	8270D	4-Chlorophenyl phenyl ether	0.21	U H	0.21	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	4-Nitroaniline	0.75	U H	0.75	1.8	mg/Kg	1.8	UJ
SSR-ST-G03-211221	8270D	4-Nitrophenol	1.7	U H	1.7	3.6	mg/Kg	3.6	UJ
SSR-ST-G03-211221	8270D	Acenaphthene	0.44	H	0.032	0.18	mg/Kg	0.44	J-
SSR-ST-G03-211221	8270D	Acenaphthylene	0.044	J H	0.024	0.18	mg/Kg	0.044	J-
SSR-ST-G03-211221	8270D	Anthracene	0.37	H	0.03	0.18	mg/Kg	0.37	J-
SSR-ST-G03-211221	8270D	Benzo[a]anthracene	0.72	H	0.024	0.18	mg/Kg	0.72	J-
SSR-ST-G03-211221	8270D	Benzo[a]pyrene	0.035	U H *3	0.035	0.18	mg/Kg	0.18	UJ
SSR-ST-G03-211221	8270D	Benzo[b]fluoranthene	1.1	H *3	0.039	0.18	mg/Kg	1.1	J
SSR-ST-G03-211221	8270D	Benzo[g,h,i]perylene	0.17	J H *3	0.058	0.18	mg/Kg	0.17	J
SSR-ST-G03-211221	8270D	Benzo[k]fluoranthene	0.4	H *3	0.053	0.18	mg/Kg	0.40	J
SSR-ST-G03-211221	8270D	Bis(2-chloroethoxy)methane	0.18	U H	0.18	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Bis(2-chloroethyl)ether	0.27	U H	0.27	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Bis(2-ethylhexyl) phthalate	1.1	H	0.33	0.91	mg/Kg	1.1	J-
SSR-ST-G03-211221	8270D	Butyl benzyl phthalate	0.34	U H	0.34	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Carbazole	0.45	U H	0.45	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Chrysene	0.81	H	0.049	0.18	mg/Kg	0.81	J-
SSR-ST-G03-211221	8270D	Dibenz(a,h)anthracene	0.035	U H *3	0.035	0.18	mg/Kg	0.18	UJ
SSR-ST-G03-211221	8270D	Dibenzofuran	0.21	J H	0.21	0.91	mg/Kg	0.21	J-

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
SSR-ST-G03-211221	8270D	Diethyl phthalate	0.31	U H	0.31	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Dimethyl phthalate	0.24	U H	0.24	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Di-n-butyl phthalate	0.27	U H	0.27	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Di-n-octyl phthalate	0.29	U H	0.29	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Fluoranthene	2.1	H	0.033	0.18	mg/Kg	2.1	J-
SSR-ST-G03-211221	8270D	Fluorene	0.25	H	0.025	0.18	mg/Kg	0.25	J-
SSR-ST-G03-211221	8270D	Hexachlorobenzene	0.042	U H	0.042	0.36	mg/Kg	0.36	UJ
SSR-ST-G03-211221	8270D	Hexachlorobutadiene	0.28	U H	0.28	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Hexachlorocyclopentadiene	1	U H	1	3.6	mg/Kg	3.6	UJ
SSR-ST-G03-211221	8270D	Hexachloroethane	0.27	U H	0.27	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Indeno[1,2,3-cd]pyrene	0.047	U H *3	0.047	0.18	mg/Kg	0.18	UJ
SSR-ST-G03-211221	8270D	Isophorone	0.2	U H	0.2	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Naphthalene	0.091	J H	0.028	0.18	mg/Kg	0.091	J-
SSR-ST-G03-211221	8270D	Nitrobenzene	0.045	U H	0.045	0.18	mg/Kg	0.18	UJ
SSR-ST-G03-211221	8270D	N-Nitrosodi-n-propylamine	0.22	U H	0.22	0.36	mg/Kg	0.36	UJ
SSR-ST-G03-211221	8270D	N-Nitrosodiphenylamine	0.21	U H	0.21	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Pentachlorophenol	2.9	U H	2.9	3.6	mg/Kg	3.6	UJ
SSR-ST-G03-211221	8270D	Phenanthrene	0.67	H	0.025	0.18	mg/Kg	0.67	J-
SSR-ST-G03-211221	8270D	Phenol	0.4	U H	0.4	0.91	mg/Kg	0.91	UJ
SSR-ST-G03-211221	8270D	Pyrene	3.1	H	0.036	0.18	mg/Kg	3.1	J-

Table B-2
VALIDATED Analytical Results Summary for Soil Samples
RMG Site

		Screening Levels		Area:	Area A			
		EPA Residential Soil RSL	EPA Residential Soil RML	Sample ID:	SSR-SS-A01-211221	SSR-SS-A02-211221	SSR-ST-A03-211221	SSR-RD-A04-211221
				Sample Date/Time:	12/21/2021 09:22	12/21/2021 09:20	12/21/2021 09:30	12/21/2021 12:50
Metals (Method 6010D)	**CAS Number**			**Units**				
Arsenic	7440-38-2	1	68	mg/kg	9.8 J+	12	21	7.1
Cadmium	7440-43-9	7	21	mg/kg	7.1 J+	2.4	5	3.5
Calcium	7440-70-2	NE	NE	mg/kg	--	--	--	--
Chromium	7440-47-3	120,000	350,000	mg/kg	150 J-	290	440	200
Cobalt	7440-48-4	23	70	mg/kg	14	8.4	16	6.4
Iron	7439-89-6	55,000	160,000	mg/kg	160000	190000	230000	75000
Lead	7439-92-1	400	400	mg/kg	58000 J	210	430	270
Magnesium	7439-95-4	NE	NE	mg/kg	--	--	--	--
Manganese	7439-96-5	1,800	5,500	mg/kg	3600	3700	4000	3100
Nickel	7440-02-0	1,500	4,600	mg/kg	190 J+	82	310	73
Mercury (Method 7470A)								
Mercury	7439-97-6	11	33	mg/kg	0.64	0.28	0.9	0.0058 U
Polychlorinated Biphenyls (Method 8082A)								
PCB-1016	12674-11-2	4.1	12	mg/kg	0.38 U	0.38 U	0.37 U	0.35 U
PCB-1221	11104-28-2	0.2	20	mg/kg	0.38 U	0.38 U	0.37 U	0.35 U
PCB-1232	11141-16-5	0.17	17	mg/kg	0.38 U	0.38 U	0.37 U	0.35 U
PCB-1242	53469-21-9	0.23	23	mg/kg	0.38 U	0.38 U	0.37 U	0.35 U
PCB-1248	12672-29-6	0.23	23	mg/kg	2.1 J+	1 J+	1.1 J+	0.87 J+
PCB-1254	11097-69-1	0.24	3.5	mg/kg	0.38 U	0.38 U	0.37 U	0.35 U
PCB-1260	11096-82-5	0.24	24	mg/kg	0.38 U	0.38 U	0.37 U	0.35 U
Total PCBs	1336-36-3	0.23	23	mg/kg	2.1 J	1 J	1.1 J	0.87 J
Semivolatile Organic Compounds (Method 8270D)								
2,2'-oxybis[1-chloropropane]	108-60-1	3,100	9,400	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
2,4,5-Trichlorophenol	95-95-4	6,300	19,000	mg/kg	3.5 UJ	3.8 UJ	3.5 UJ	3.5 UJ
2,4,6-Trichlorophenol	88-06-2	49	190	mg/kg	3.5 UJ	3.8 UJ	3.5 UJ	3.5 UJ
2,4-Dichlorophenol	120-83-2	190	570	mg/kg	3.5 UJ	3.8 UJ	3.5 UJ	3.5 UJ
2,4-Dimethylphenol	105-67-9	1,300	3,800	mg/kg	3.5 UJ	3.8 UJ	3.5 UJ	3.5 UJ
2,4-Dinitrophenol	51-28-5	130	380	mg/kg	7.2 UJ	7.7 UJ	7.1 UJ	7.2 UJ
2,4-Dinitrotoluene	121-14-2	1.7	170	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
2,6-Dinitrotoluene	606-20-2	0.36	36	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
2-Chloronaphthalene	91-58-7	4,800	14,000	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
2-Chlorophenol	95-57-8	390	1,200	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
2-Methylnaphthalene	91-57-6	240	720	mg/kg	0.12 J-	0.28 J-	0.22 J-	0.11 J-
2-Methylphenol	95-48-7	3,200	9,500	mg/kg	1.8 UJ	1.9 UJ	6.8 J-	3.6 J-
2-Nitroaniline	88-74-4	630	1,900	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
2-Nitrophenol	88-75-5	NE	NE	mg/kg	3.5 UJ	3.8 UJ	3.5 UJ	3.5 UJ
3 & 4 Methylphenol	15831-10-4	NE	NE	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
3,3'-Dichlorobenzidine	91-94-1	1.2	120	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
3-Nitroaniline	99-09-2	NE	NE	mg/kg	3.5 UJ	3.8 UJ	3.5 UJ	3.5 UJ
4,6-Dinitro-2-methylphenol	534-52-1	5.1	15	mg/kg	7.2 UJ	7.7 UJ	7.1 UJ	7.2 UJ
4-Bromophenyl phenyl ether	101-55-3	NE	NE	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
4-Chloro-3-methylphenol	59-50-7	6,300	19,000	mg/kg	3.5 UJ	3.8 UJ	3.5 UJ	3.5 UJ
4-Chloroaniline	106-47-8	2.7	95	mg/kg	7.2 UJ	7.7 UJ	7.1 UJ	7.2 UJ
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
4-Nitroaniline	100-01-6	27	760	mg/kg	3.5 UJ	3.8 UJ	3.5 UJ	3.5 UJ
4-Nitrophenol	100-02-7	NE	NE	mg/kg	7.2 UJ	7.7 UJ	7.1 UJ	7.2 UJ
Acenaphthene	83-32-9	3,600	11,000	mg/kg	0.34 J-	0.65 J-	0.13 J-	0.076 J-
Acenaphthylene	208-96-8	NE	NE	mg/kg	0.061 J-	0.38 UJ	0.063 J-	0.35 UJ
Anthracene	120-12-7	18,000	54,000	mg/kg	0.76 J-	3.7 J-	0.31 J-	0.27 J-
Benzo[a]anthracene	56-55-3	1.1	110	mg/kg	2.6 J-	2.7 J-	1 J-	1.1 J-
Benzo[a]pyrene	50-32-8	0.11	11	mg/kg	2.8 J	2.9 J	1.3 J	1.2 U
Benzo[b]fluoranthene	205-99-2	1.1	110	mg/kg	4.2 J	4.4 J	2.4 J	2.4 J
Benzo[g,h,i]perylene	191-24-2	NE	NE	mg/kg	0.95 J	0.84 J	0.44 J	0.32 J
Benzo[k]fluoranthene	207-08-9	11	1,100	mg/kg	1.8 J	1.7 J	0.95 J	0.67 J
Bis(2-chloroethoxy)methane	111-91-1	190	570	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
Bis(2-chloroethyl)ether	111-44-4	0.23	23	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
Bis(2-ethylhexyl) phthalate	117-81-7	39	3,800	mg/kg	6.2 J-	3.5 J-	5.5 J-	3.9 J-
Butyl benzyl phthalate	85-68-7	290	29,000	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
Carbazole	86-74-8	NE	NE	mg/kg	1.8 UJ	1.5 J	1.8 UJ	1.8 UJ
Chrysene	218-01-9	110	11,000	mg/kg	2.8 J-	3.1 J-	1.3 J-	1.4 J-
Dibenz(a,h)anthracene	53-70-3	0.11	11	mg/kg	0.27 J	0.38 U	0.35 U	0.35 U
Dibenzofuran	132-64-9	78	230	mg/kg	1.8 UJ	0.47 J-	1.8 UJ	1.8 UJ
Diethyl phthalate	84-66-2	51,000	150,000	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
Dimethyl phthalate	131-11-3	NE	NE	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
Di-n-butyl phthalate	84-74-2	6,300	19,000	mg/kg	1.8 UJ	1.9 UJ	2 J-	1.8 UJ
Di-n-octyl phthalate	117-84-0	630	1,900	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
Fluoranthene	206-44-0	2,400	7,200	mg/kg	5.9 J-	7.9 J-	2.3 J-	2.3 J-
Fluorene	86-73-7	2,400	7,200	mg/kg	0.29 J-	0.9 J-	0.13 J-	0.11 J-
Hexachlorobenzene	118-74-1	0.21	2.3	mg/kg	0.72 UJ	0.77 UJ	0.71 UJ	0.72 UJ
Hexachlorobutadiene	87-68-3	1.2	120	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
Hexachlorocyclopentadiene	77-47-4	1.8	5.3	mg/kg	7.2 UJ	7.7 UJ	7.1 UJ	7.2 UJ
Hexachloroethane	67-72-1	1.8	130	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
Indeno[1,2,3-cd]pyrene	193-39-5	1.1	110	mg/kg	0.94 J	0.8 J	0.4 J	0.36 J
Isophorone	78-59-1	570	38,000	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
Naphthalene	91-20-3	2	200	mg/kg	0.18 J-	0.31 J-	0.19 J-	0.1 J-
Nitrobenzene	98-95-3	5.1	380	mg/kg	0.35 UJ	0.38 UJ	0.35 UJ	0.35 UJ
N-Nitrosodi-n-propylamine	621-64-7	0.078	7.8	mg/kg	0.72 UJ	0.77 UJ	0.71 UJ	0.72 UJ
N-Nitrosodiphenylamine	86-30-6	110	11,000	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
Pentachlorophenol	87-86-5	1	100	mg/kg	7.2 UJ	7.7 UJ	7.1 UJ	7.2 UJ
Phenanthrene	85-01-8	NE	NE	mg/kg	3 J-	6.7 J-	1.3 J-	0.78 J-
Phenol	108-95-2	19,000	57,000	mg/kg	1.8 UJ	1.9 UJ	1.8 UJ	1.8 UJ
Pyrene	129-00-0	1,800	5,400	mg/kg	6 J-	9 J-	3 J-	3.5 J-
Dioxins and Furans (Method 8290A)								
1,2,3,4,6,7,8-HpCDD	35822-46-9	NE	NE	pg/g	330	120 J-	270	190
1,2,3,4,6,7,8-HpCDF	67562-39-4	NE	NE	pg/g	84 J	18 J	100	30
1,2,3,4,7,8,9-HpCDF	55673-89-7	NE	NE	pg/g	8.2 J	5.9 U	9.9	5.4 U
1,2,3,4,7,8-HxCDD	39227-28-6	NE	NE	pg/g	5.6 J	5.9 U	5.7 U	5.4 U
1,2,3,4,7,8-HxCDF	70648-26-9	NE	NE	pg/g	16	4.6 J	27	7.5
1,2,3,6,7,8-HxCDD	57653-85-7	NE	NE	pg/g	17	6 J	14	9.3
1,2,3,6,7,8-HxCDF	57117-44-9	NE	NE	pg/g	10	2.6 J	14	3.5 J
1,2,3,7,8,9-HxCDD	19408-74-3	NE	NE	pg/g	8.9	4.4 J	8.2	4.1 J
1,2,3,7,8,9-HxCDF	72918-21-9	NE	NE	pg/g	5.6 U	5.9 U	5.7 U	5.4 U
1,2,3,7,8-PeCDD	40321-76-4	NE	NE	pg/g	2.8 J	0.78 J	3.8 J	1 J
1,2,3,7,8-PeCDF	57117-41-6	NE	NE	pg/g	7.9	2.2 J	9.9	3 J
2,3,4,6,7,8-HxCDF	60851-34-5	NE	NE	pg/g	8.2	1.5 J	9.9	2.5 J
2,3,4,7,8-PeCDF	57117-31-4	NE	NE	pg/g	12	3.1 J	16	4.2 J
2,3,7,8-TCDD	1746-01-6	0.0000048	0.00015	pg/g	0.96 J	0.35 J	1.2	0.39 J
2,3,7,8-TCDF	51207-31-9	NE	NE	pg/g	9.3 J	3.1 J	15 J	4.6
OCDD	3268-87-9	NE	NE	pg/g	2400	790 J-	2400 J-	1300 J-
OCDF	39001-02-0	NE	NE	pg/g	130	45	120	71
Total Dioxin/Furan TEQ	STL01992	NE	NE	pg/g	20	6.4	24	9
Total HpCDD	37871-00-4	NE	NE	pg/g	750	260 J-	570	430
Total HpCDF	38998-75-3	NE	NE	pg/g	190 J	41 J	190	80
Total HxCDD	34465-46-8	0.0001	0.01	pg/g	150 J	71 J	170	110
Total HxCDF	55684-94-1	NE	NE	pg/g	120 J	34 J	150 J	53
Total PeCDD	36088-22-9	NE	NE	pg/g	33 J	6.3 J	32 J	7.6 J
Total PeCDF	30402-15-4	NE	NE	pg/g	100	23 J	120	36 J
Total TCDD	41903-57-5	NE	NE	pg/g	19 J	6.4 J	24 J	7.2 J
Total TCDF	30402-14-3	NE	NE	pg/g	110 J	35	130 J	41

Notes: See last page.

Table B-2
VALIDATED Analytical Results Summary for Soil Samples
RMG Site

		Screening Levels		Area B					
		EPA Residential Soil RSL	EPA Residential Soil RML	SSR-ST-B00-211221	SSR-SS-B01-211221	SSR-SS-B02-211221	SSR-ST-B03-211221	SSR-ST-B04-211221	SSR-ST-B04-211221-D
				12/21/2021 12:46	12/21/2021 10:25	12/21/2021 10:45	12/21/2021 10:30	12/21/2021 11:00	12/21/2021 11:15
Metals (Method 6010D)	**CAS Number**								
Arsenic	7440-38-2	1	68	0.59 J	11	6.8	7.1	31	26
Cadmium	7440-43-9	7	21	0.21 U	3.7	4.1 J+	4.5	8	8.9
Calcium	7440-70-2	NE	NE	--	--	--	--	--	--
Chromium	7440-47-3	120,000	350,000	140	770	180	230	590	550
Cobalt	7440-48-4	23	70	2.6 U	7.7	7.8	7 J+	45	44
Iron	7439-89-6	55,000	160,000	13000	130000	78000	65000	210000	260000
Lead	7439-92-1	400	400	11 J+	400	460	370 J+	1200	710
Magnesium	7439-95-4	NE	NE	--	--	--	--	--	--
Manganese	7439-96-5	1,800	5,500	2900	6800	2700	3400	4000	5300
Nickel	7440-02-0	1,500	4,600	7.5 J+	76	69	50 J+	2000 J	420 J
Mercury (Method 7470A)									
Mercury	7439-97-6	11	33	0.016 U	1.1	0.035 J+	0.46	0.29 J	0.25
Polychlorinated Biphenyls (Method 8082A)									
PCB-1016	12674-11-2	4.1	12	0.017 U	0.38 U	0.39 U	0.36 U	0.34 U	0.35 U
PCB-1221	11104-28-2	0.2	20	0.017 U	0.38 U	0.39 U	0.36 U	0.34 U	0.35 U
PCB-1232	11141-16-5	0.17	17	0.017 U	0.38 U	0.39 U	0.36 U	0.34 U	0.35 U
PCB-1242	53469-21-9	0.23	23	0.017 U	0.38 U	0.39 U	0.36 U	0.34 U	0.35 U
PCB-1248	12672-29-6	0.23	23	0.017 U	0.69 J+	0.71 J+	1.4 J+	1.7 J+	1.6 J+
PCB-1254	11097-69-1	0.24	3.5	0.017 U	0.38 U	0.39 U	0.36 U	0.34 U	0.35 U
PCB-1260	11096-82-5	0.24	24	0.017 U	0.38 U	0.39 U	0.36 U	0.34 U	0.35 U
Total PCBs	1336-36-3	0.23	23	0.017 U	0.69 J	0.71 J	1.4 J	1.7 J	1.6 J
Semivolatile Organic Compounds (Method 8270D)									
2,2'-oxybis[1-chloropropane]	108-60-1	3,100	9,400	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
2,4,5-Trichlorophenol	95-95-4	6,300	19,000	0.67 UJ	7.5 UJ	7.7 UJ	6.9 UJ	6.8 UJ	6.8 UJ
2,4,6-Trichlorophenol	88-06-2	49	190	0.67 UJ	7.5 UJ	7.7 UJ	6.9 UJ	6.8 UJ	6.8 UJ
2,4-Dichlorophenol	120-83-2	190	570	0.67 UJ	7.5 UJ	7.7 UJ	6.9 UJ	6.8 UJ	6.8 UJ
2,4-Dimethylphenol	105-67-9	1,300	3,800	0.67 UJ	7.5 UJ	7.7 UJ	6.9 UJ	6.8 UJ	6.8 UJ
2,4-Dinitrophenol	51-28-5	130	380	1.4 UJ	15 UJ	16 UJ	14 UJ	14 UJ	14 UJ
2,4-Dinitrotoluene	121-14-2	1.7	170	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
2,6-Dinitrotoluene	606-20-2	0.36	36	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
2-Chloronaphthalene	91-58-7	4,800	14,000	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
2-Chlorophenol	95-57-8	390	1,200	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
2-Methylnaphthalene	91-57-6	240	720	0.14 UJ	1.5 UJ	1.6 UJ	0.35 J-	1.4 UJ	1.4 UJ
2-Methylphenol	95-48-7	3,200	9,500	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
2-Nitroaniline	88-74-4	630	1,900	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
2-Nitrophenol	88-75-5	NE	NE	0.67 UJ	7.5 UJ	7.7 UJ	6.9 UJ	6.8 UJ	6.8 UJ
3 & 4 Methylphenol	15831-10-4	NE	NE	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
3,3'-Dichlorobenzidine	91-94-1	1.2	120	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
3-Nitroaniline	99-09-2	NE	NE	0.67 UJ	7.5 UJ	7.7 UJ	6.9 UJ	6.8 UJ	6.8 UJ
4,6-Dinitro-2-methylphenol	534-52-1	5.1	15	1.4 UJ	15 UJ	16 UJ	14 UJ	14 UJ	14 UJ
4-Bromophenyl phenyl ether	101-55-3	NE	NE	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
4-Chloro-3-methylphenol	59-50-7	6,300	19,000	0.67 UJ	7.5 UJ	7.7 UJ	6.9 UJ	6.8 UJ	6.8 UJ
4-Chloroaniline	106-47-8	2.7	95	1.4 UJ	15 UJ	16 UJ	14 UJ	14 UJ	14 UJ
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
4-Nitroaniline	100-01-6	27	760	0.67 UJ	7.5 UJ	7.7 UJ	6.9 UJ	6.8 UJ	6.8 UJ
4-Nitrophenol	100-02-7	NE	NE	1.4 UJ	15 UJ	16 UJ	14 UJ	14 UJ	14 UJ
Acenaphthene	83-32-9	3,600	11,000	0.015 J-	0.75 UJ	0.77 UJ	0.3 J-	0.68 UJ	0.13 J-
Acenaphthylene	208-96-8	NE	NE	0.067 UJ	0.75 UJ	0.77 UJ	0.27 J-	0.68 UJ	0.68 UJ
Anthracene	120-12-7	18,000	54,000	0.065 J-	0.27 J-	0.34 J-	0.78 J-	0.29 J-	0.33 J-
Benzo[a]anthracene	56-55-3	1.1	110	0.41 J-	0.79 J-	1.3 J-	2 J	0.9 J	1.2 J-
Benzo[a]pyrene	50-32-8	0.11	11	0.46 J	0.89 U	1.3 U	1.8 U	1.7 U	1.2 U
Benzo[b]fluoranthene	205-99-2	1.1	110	0.78 J	1.7 J	3 J	3 UJ	1.7 UJ	2 U
Benzo[g,h,i]perylene	191-24-2	NE	NE	0.15 J	0.4 J	0.41 J	0.78 J	1.7 UJ	0.37 J
Benzo[k]fluoranthene	207-08-9	11	1,100	0.29 J	0.51 J	1.1 J	1.7 UJ	1.7 UJ	0.99 U
Bis(2-chloroethoxy)methane	111-91-1	190	570	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
Bis(2-chloroethyl)ether	111-44-4	0.23	23	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
Bis(2-ethylhexyl) phthalate	117-81-7	39	3,800	0.34 UJ	2.6 J-	6.3 J-	10 J	24 J	25 J-
Butyl benzyl phthalate	85-68-7	290	29,000	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
Carbazole	86-74-8	NE	NE	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
Chrysene	218-01-9	110	11,000	0.46 J-	0.97 J-	1.9 J-	2.3 J	1.1 J	1.5 J-
Dibenz(a,h)anthracene	53-70-3	0.11	11	0.041 J	0.75 UJ	0.77 UJ	1.7 UJ	1.7 UJ	0.68 UJ
Dibenzofuran	132-64-9	78	230	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
Diethyl phthalate	84-66-2	51,000	150,000	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
Dimethyl phthalate	131-11-3	NE	NE	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	4.6 J-	3.4 UJ
Di-n-butyl phthalate	84-74-2	6,300	19,000	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	2 J-	1.6 J-
Di-n-octyl phthalate	117-84-0	630	1,900	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
Fluoranthene	206-44-0	2,400	7,200	0.6 J-	1.5 J-	2.8 J-	4.1 J-	1.8 J-	2.3 J-
Fluorene	86-73-7	2,400	7,200	0.03 J-	0.75 UJ	0.77 UJ	0.34 J-	0.17 J-	0.18 J-
Hexachlorobenzene	118-74-1	0.21	2.3	0.14 UJ	1.5 UJ	1.6 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Hexachlorobutadiene	87-68-3	1.2	120	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
Hexachlorocyclopentadiene	77-47-4	1.8	5.3	1.4 UJ	15 UJ	16 UJ	14 UJ	14 UJ	14 UJ
Hexachloroethane	67-72-1	1.8	130	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
Indeno[1,2,3-cd]pyrene	193-39-5	1.1	110	0.15 J	0.42 J	0.44 J	1.7 UJ	1.7 UJ	0.38 J
Isophorone	78-59-1	570	38,000	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
Naphthalene	91-20-3	2	200	0.013 J-	0.75 UJ	0.77 UJ	0.17 J-	0.14 J-	0.21 J-
Nitrobenzene	98-95-3	5.1	380	0.067 UJ	0.75 UJ	0.77 UJ	0.69 UJ	0.68 UJ	0.68 UJ
N-Nitrosodi-n-propylamine	621-64-7	0.078	7.8	0.14 UJ	1.5 UJ	1.6 UJ	1.4 UJ	1.4 UJ	1.4 UJ
N-Nitrosodiphenylamine	86-30-6	110	11,000	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
Pentachlorophenol	87-86-5	1	100	1.4 UJ	15 UJ	16 UJ	14 UJ	14 UJ	14 UJ
Phenanthrene	85-01-8	NE	NE	0.32 J-	0.75 J-	0.92 J-	1.7 J-	0.86 J-	0.96 J-
Phenol	108-95-2	19,000	57,000	0.34 UJ	3.8 UJ	3.9 UJ	3.5 UJ	3.4 UJ	3.4 UJ
Pyrene	129-00-0	1,800	5,400	0.74 J-	2.1 J-	4.7 J-	8.5 J	3.4 J	3.6 J-
Dioxins and Furans (Method 8290A)									
1,2,3,4,6,7,8-HpCDD	35822-46-9	NE	NE	5.2 U	170	230	190	440	660
1,2,3,4,6,7,8-HpCDF	67562-39-4	NE	NE	5.2 U	31 J	48	43	91	88 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	NE	NE	5.2 U	5.8 U	6 U	5.4 U	7.6	5.3 U
1,2,3,4,7,8-HxCDD	39227-28-6	NE	NE	5.2 U	5.8 U	6 U	5.4 U	5.2 U	5.3 U
1,2,3,4,7,8-HxCDF	70648-26-9	NE	NE	5.2 U	8.6	9.1 J+	7.6	15 J+	18
1,2,3,6,7,8-HxCDD	57653-85-7	NE	NE	0.24 J	9.5	12	12	40	48
1,2,3,6,7,8-HxCDF	57117-44-9	NE	NE	5.2 U	4.9 J	4.5 J+	5.1 J	7.9 J+	12
1,2,3,7,8,9-HxCDD	19408-74-3	NE	NE	0.44 J	4.1 J	6.3	4.8 J	17	19
1,2,3,7,8,9-HxCDF	72918-21-9	NE	NE	5.2 U	5.8 U	6 U	5.4 U	5.2 U	5.3 U
1,2,3,7,8-PeCDD	40321-76-4	NE	NE	5.2 U	5.8 U	6 U	5.4 U	4 J	5.3 U
1,2,3,7,8-PeCDF	57117-41-6	NE	NE	5.2 U	4.3 J	4.8 J	3 J	7.2	9.7
2,3,4,6,7,8-HxCDF	60851-34-5	NE	NE	5.2 U	3.4 J	2.7 J+	4.6 J	5.6 J+	7.4
2,3,4,7,8-PeCDF	57117-31-4	NE	NE	5.2 U	6.7	5 J	5.8	11	13
2,3,7,8-TCDD	1746-01-6	0.0000048	0.00015	1 U	0.57 J	1.5	0.88 J	1.5	2
2,3,7,8-TCDF	51207-31-9	NE	NE	1 U	6.4	6.5 J	3.7 J	9.7 J	12 J
OCDD	3268-87-9	NE	NE	32	1600 J-	2300 J-	1600 J-	4200 J	6300 J-
OCDF	39001-02-0	NE	NE	10 U	100	140	71	140	220
Total Dioxin/Furan TEQ	STL01992	NE	NE	5.2	12	14	12	26	31
Total HpCDD	37871-00-4	NE	NE	5.6	400	530	400	880	1400
Total HpCDF	38998-75-3	NE	NE	5.2 U	100 J	130	89	220 J	250 J
Total HxCDD	34465-46-8	0.0001	0.01	5.2 U	100	130 J	110 J	340 J	400 J
Total HxCDF	55684-94-1	NE	NE	5.2 U	71	79 J+	88 J	160 J+	180 J
Total PeCDD	36088-22-9	NE	NE	5.2 U	9.7 J	7.7 J	4.2 J	17	19 J
Total PeCDF	30402-15-4	NE	NE	5.2 U	61	37 J	45 J	120	120 J
Total TCDD	41903-57-5	NE	NE	0.22 J	11 J	15 J	13 J	19 J	15 J
Total TCDF	30402-14-3	NE	NE	1 U	67	55 J	38	91	100

Notes: See last page.

Table B-2
VALIDATED Analytical Results Summary for Soil Samples
RMG Site

		Screening Levels		Area C			
		EPA Residential Soil RSL	EPA Residential Soil RML	SSR-SS-C01-211221	SSR-ST-C02-211221	SSR-ST-C03-211221	SSR-ST-C03-211221-D
				12/21/2021 10:50	12/21/2021 11:05	12/21/2021 11:06	12/21/2021 11:08
Metals (Method 6010D)	**CAS Number**						
Arsenic	7440-38-2	1	68	12	24	15	16
Cadmium	7440-43-9	7	21	1.6 J+	1 J+	2	2.3
Calcium	7440-70-2	NE	NE	--	--	--	--
Chromium	7440-47-3	120,000	350,000	330	1300	390 J	120 J
Cobalt	7440-48-4	23	70	3.8	24 U	3.4	4.6
Iron	7439-89-6	55,000	160,000	160000	390000	210000	220000
Lead	7439-92-1	400	400	160	58 J+	130 J	1100 J
Magnesium	7439-95-4	NE	NE	--	--	--	--
Manganese	7439-96-5	1,800	5,500	6700	24000	8100 J	3200 J
Nickel	7440-02-0	1,500	4,600	26	28 J+	18	27
Mercury (Method 7470A)							
Mercury	7439-97-6	11	33	0.28	0.028	0.091	0.083
Polychlorinated Biphenyls (Method 8082A)							
PCB-1016	12674-11-2	4.1	12	0.4 U	0.018 U	0.018 U	0.018 U
PCB-1221	11104-28-2	0.2	20	0.4 U	0.018 U	0.018 U	0.018 U
PCB-1232	11141-16-5	0.17	17	0.4 U	0.018 U	0.018 U	0.018 U
PCB-1242	53469-21-9	0.23	23	0.4 U	0.018 U	0.018 U	0.018 U
PCB-1248	12672-29-6	0.23	23	0.43 J+	0.046 J+	0.076 J+	0.076 J+
PCB-1254	11097-69-1	0.24	3.5	0.4 U	0.018 U	0.018 U	0.018 U
PCB-1260	11096-82-5	0.24	24	0.4 U	0.018 U	0.018 U	0.018 U
Total PCBs	1336-36-3	0.23	23	0.43 J	0.046 J	0.076 J	0.076 J
Semivolatile Organic Compounds (Method 8270D)							
2,2'-oxybis[1-chloropropane]	108-60-1	3,100	9,400	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
2,4,5-Trichlorophenol	95-95-4	6,300	19,000	7.6 UJ	1.8 UJ	7.3 UJ	7.3 UJ
2,4,6-Trichlorophenol	88-06-2	49	190	7.6 UJ	1.8 UJ	7.3 UJ	7.3 UJ
2,4-Dichlorophenol	120-83-2	190	570	7.6 UJ	1.8 UJ	7.3 UJ	7.3 UJ
2,4-Dimethylphenol	105-67-9	1,300	3,800	7.6 UJ	1.8 UJ	7.3 UJ	7.3 UJ
2,4-Dinitrophenol	51-28-5	130	380	16 UJ	3.6 UJ	15 UJ	15 UJ
2,4-Dinitrotoluene	121-14-2	1.7	170	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
2,6-Dinitrotoluene	606-20-2	0.36	36	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
2-Chloronaphthalene	91-58-7	4,800	14,000	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
2-Chlorophenol	95-57-8	390	1,200	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
2-Methylnaphthalene	91-57-6	240	720	1.6 UJ	0.36 UJ	1.5 UJ	1.5 UJ
2-Methylphenol	95-48-7	3,200	9,500	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
2-Nitroaniline	88-74-4	630	1,900	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
2-Nitrophenol	88-75-5	NE	NE	7.6 UJ	1.8 UJ	7.3 UJ	7.3 UJ
3 & 4 Methylphenol	15831-10-4	NE	NE	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
3,3'-Dichlorobenzidine	91-94-1	1.2	120	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
3-Nitroaniline	99-09-2	NE	NE	7.6 UJ	1.8 UJ	7.3 UJ	7.3 UJ
4,6-Dinitro-2-methylphenol	534-52-1	5.1	15	16 UJ	3.6 UJ	15 UJ	15 UJ
4-Bromophenyl phenyl ether	101-55-3	NE	NE	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
4-Chloro-3-methylphenol	59-50-7	6,300	19,000	7.6 UJ	1.8 UJ	7.3 UJ	7.3 UJ
4-Chloroaniline	106-47-8	2.7	95	16 UJ	3.6 UJ	15 UJ	15 UJ
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
4-Nitroaniline	100-01-6	27	760	7.6 UJ	1.8 UJ	7.3 UJ	7.3 UJ
4-Nitrophenol	100-02-7	NE	NE	16 UJ	3.6 UJ	15 UJ	15 UJ
Acenaphthene	83-32-9	3,600	11,000	0.76 UJ	0.18 UJ	0.73 UJ	0.13 J-
Acenaphthylene	208-96-8	NE	NE	0.76 UJ	0.18 UJ	0.73 UJ	0.73 UJ
Anthracene	120-12-7	18,000	54,000	0.4 J-	0.038 J-	0.17 J-	0.13 J-
Benzo[a]anthracene	56-55-3	1.1	110	1.7 J-	0.08 J-	0.52 J-	0.44 J-
Benzo[a]pyrene	50-32-8	0.11	11	1.7 J	0.18 UJ	0.65 J	0.61 J
Benzo[b]fluoranthene	205-99-2	1.1	110	3.9 J	0.18 UJ	1.1 J	1.1 J
Benzo[g,h,i]perylene	191-24-2	NE	NE	0.51 J	0.18 UJ	0.73 UJ	0.27 J
Benzo[k]fluoranthene	207-08-9	11	1,100	1.1 J	0.18 UJ	0.36 J	0.48 J
Bis(2-chloroethoxy)methane	111-91-1	190	570	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Bis(2-chloroethyl)ether	111-44-4	0.23	23	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Bis(2-ethylhexyl) phthalate	117-81-7	39	3,800	10 J-	0.91 UJ	3.7 UJ	3.7 UJ
Butyl benzyl phthalate	85-68-7	290	29,000	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Carbazole	86-74-8	NE	NE	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Chrysene	218-01-9	110	11,000	2.3 J-	0.11 J-	0.74 J-	0.63 J-
Dibenz(a,h)anthracene	53-70-3	0.11	11	0.76 UJ	0.18 UJ	0.73 UJ	0.73 UJ
Dibenzofuran	132-64-9	78	230	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Diethyl phthalate	84-66-2	51,000	150,000	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Dimethyl phthalate	131-11-3	NE	NE	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Di-n-butyl phthalate	84-74-2	6,300	19,000	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Di-n-octyl phthalate	117-84-0	630	1,900	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Fluoranthene	206-44-0	2,400	7,200	2.8 J-	0.2 J-	0.86 J-	0.79 J-
Fluorene	86-73-7	2,400	7,200	0.12 J-	0.18 UJ	0.73 UJ	0.73 UJ
Hexachlorobenzene	118-74-1	0.21	2.3	1.6 UJ	0.36 UJ	1.5 UJ	1.5 UJ
Hexachlorobutadiene	87-68-3	1.2	120	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Hexachlorocyclopentadiene	77-47-4	1.8	5.3	16 UJ	3.6 UJ	15 UJ	15 UJ
Hexachloroethane	67-72-1	1.8	130	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Indeno[1,2,3-cd]pyrene	193-39-5	1.1	110	0.51 J	0.18 UJ	0.3 J	0.22 J
Isophorone	78-59-1	570	38,000	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Naphthalene	91-20-3	2	200	0.76 UJ	0.18 UJ	0.73 UJ	0.73 UJ
Nitrobenzene	98-95-3	5.1	380	0.76 UJ	0.18 UJ	0.73 UJ	0.73 UJ
N-Nitrosodi-n-propylamine	621-64-7	0.078	7.8	1.6 UJ	0.36 UJ	1.5 UJ	1.5 UJ
N-Nitrosodiphenylamine	86-30-6	110	11,000	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Pentachlorophenol	87-86-5	1	100	16 UJ	3.6 UJ	15 UJ	15 UJ
Phenanthrene	85-01-8	NE	NE	1.2 J-	0.15 J-	0.54 J-	0.49 J-
Phenol	108-95-2	19,000	57,000	3.9 UJ	0.91 UJ	3.7 UJ	3.7 UJ
Pyrene	129-00-0	1,800	5,400	4.1 J-	0.27 J-	1 J-	0.96 J-
Dioxins and Furans (Method 8290A)							
1,2,3,4,6,7,8-HpCDD	35822-46-9	NE	NE	99	17	500 J	130 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	NE	NE	18	5.6 U	25 J	11 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	NE	NE	6.2 U	5.6 U	5.4 U	5.5 U
1,2,3,4,7,8-HxCDD	39227-28-6	NE	NE	6.2 U	5.6 U	5.4 U	5.5 U
1,2,3,4,7,8-HxCDF	70648-26-9	NE	NE	4.7 J+	0.89 J	2.5 J	2.1 J
1,2,3,6,7,8-HxCDD	57653-85-7	NE	NE	6.3	1 J	5 J	2.2 J
1,2,3,6,7,8-HxCDF	57117-44-9	NE	NE	2 J+	0.39 J	1.1 J	0.87 J
1,2,3,7,8,9-HxCDD	19408-74-3	NE	NE	4.4 J	0.71 J	2.5 J	2.6 J
1,2,3,7,8,9-HxCDF	72918-21-9	NE	NE	6.2 U	5.6 U	5.4 U	5.5 U
1,2,3,7,8-PeCDD	40321-76-4	NE	NE	6.2 U	0.21 J	0.58 J	0.35 J
1,2,3,7,8-PeCDF	57117-41-6	NE	NE	1.4 J	0.34 J	0.88 J	0.77 J
2,3,4,6,7,8-HxCDF	60851-34-5	NE	NE	1.4 J+	0.29 J	0.71 J	0.63 J
2,3,4,7,8-PeCDF	57117-31-4	NE	NE	2.5 J	0.5 J	1.2 J	1.1 J
2,3,7,8-TCDD	1746-01-6	0.0000048	0.00015	0.39 J	0.29 J	0.24 J	0.28 J
2,3,7,8-TCDF	51207-31-9	NE	NE	3.1	1.1 U	1.3	1.3
OCDD	3268-87-9	NE	NE	970 J-	140	6900 J	1700 J
OCDF	39001-02-0	NE	NE	34	11 U	140 J	37 J
Total Dioxin/Furan TEQ	STL01992	NE	NE	8.4	1.4	10 J	4.3 J
Total HpCDD	37871-00-4	NE	NE	360	40	3800 J	850 J
Total HpCDF	38998-75-3	NE	NE	40	5.8 J	110 J	35 J
Total HxCDD	34465-46-8	0.0001	0.01	68 J	8.9 J	170 J	48 J
Total HxCDF	55684-94-1	NE	NE	29 J+	5.6 U	22	14 J
Total PeCDD	36088-22-9	NE	NE	5 J	1.2 J	5.9 J	3.3 J
Total PeCDF	30402-15-4	NE	NE	20 J	4.5 J	12 J	11
Total TCDD	41903-57-5	NE	NE	5.8 J	1.1 J	3.4 J	2.5 J
Total TCDF	30402-14-3	NE	NE	29	5.2 J	17 J	12 J

Notes: See last page.

Table B-2
VALIDATED Analytical Results Summary for Soil Samples
RMG Site

		Screening Levels		Area D			
		EPA Residential Soil RSL	EPA Residential Soil RML	SSR-SS-D01-211221	SSR-ST-D02-211221	SSR-ST-D03-211221	SSR-ST-D04-211221
				12/21/2021 12:20	12/21/2021 11:35	12/21/2021 11:54	12/21/2021 12:03
Metals (Method 6010D)	**CAS Number**						
Arsenic	7440-38-2	1	68	16	15 J	16	20
Cadmium	7440-43-9	7	21	21	4.6 J-	3.4	2.2
Calcium	7440-70-2	NE	NE	--	--	--	--
Chromium	7440-47-3	120,000	350,000	550	330 J	380	790
Cobalt	7440-48-4	23	70	10	4.6 J-	12	12
Iron	7439-89-6	55,000	160,000	180000	250000	220000	260000
Lead	7439-92-1	400	400	1800	280	340	260
Magnesium	7439-95-4	NE	NE	--	--	--	--
Manganese	7439-96-5	1,800	5,500	10000	8200 J	7200	9100
Nickel	7440-02-0	1,500	4,600	130	24 J-	87	67
Mercury (Method 7470A)							
Mercury	7439-97-6	11	33	1.3	0.066	0.32	0.11
Polychlorinated Biphenyls (Method 8082A)							
PCB-1016	12674-11-2	4.1	12	0.4 U	0.018 U	1.8 U	0.096 U
PCB-1221	11104-28-2	0.2	20	0.4 U	0.018 U	1.8 U	0.096 U
PCB-1232	11141-16-5	0.17	17	0.4 U	0.018 U	1.8 U	0.096 U
PCB-1242	53469-21-9	0.23	23	0.4 U	0.018 U	1.8 U	0.096 U
PCB-1248	12672-29-6	0.23	23	1.1 J+	0.077 J+	21 J+	1.4 J+
PCB-1254	11097-69-1	0.24	3.5	0.4 U	0.018 U	1.8 U	0.096 U
PCB-1260	11096-82-5	0.24	24	0.4 U	0.018 U	1.8 U	0.096 U
Total PCBs	1336-36-3	0.23	23	1.1 J	0.077 J	21 J	1.4 J
Semivolatile Organic Compounds (Method 8270D)							
2,2'-oxybis[1-chloropropane]	108-60-1	3,100	9,400	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
2,4,5-Trichlorophenol	95-95-4	6,300	19,000	1.9 UJ	1.8 UJ	3.7 UJ	1.9 UJ
2,4,6-Trichlorophenol	88-06-2	49	190	1.9 UJ	1.8 UJ	3.7 UJ	1.9 UJ
2,4-Dichlorophenol	120-83-2	190	570	1.9 UJ	1.8 UJ	3.7 UJ	1.9 UJ
2,4-Dimethylphenol	105-67-9	1,300	3,800	1.9 UJ	1.8 UJ	3.7 UJ	1.9 UJ
2,4-Dinitrophenol	51-28-5	130	380	3.9 UJ	3.6 UJ	7.4 UJ	3.8 UJ
2,4-Dinitrotoluene	121-14-2	1.7	170	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
2,6-Dinitrotoluene	606-20-2	0.36	36	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
2-Chloronaphthalene	91-58-7	4,800	14,000	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
2-Chlorophenol	95-57-8	390	1,200	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
2-Methylnaphthalene	91-57-6	240	720	0.13 J-	0.033 J-	0.24 J-	0.072 J-
2-Methylphenol	95-48-7	3,200	9,500	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
2-Nitroaniline	88-74-4	630	1,900	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
2-Nitrophenol	88-75-5	NE	NE	1.9 UJ	1.8 UJ	3.7 UJ	1.9 UJ
3 & 4 Methylphenol	15831-10-4	NE	NE	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
3,3'-Dichlorobenzidine	91-94-1	1.2	120	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
3-Nitroaniline	99-09-2	NE	NE	1.9 UJ	1.8 UJ	3.7 UJ	1.9 UJ
4,6-Dinitro-2-methylphenol	534-52-1	5.1	15	3.9 UJ	3.6 UJ	7.4 UJ	3.8 UJ
4-Bromophenyl phenyl ether	101-55-3	NE	NE	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
4-Chloro-3-methylphenol	59-50-7	6,300	19,000	1.9 UJ	1.8 UJ	3.7 UJ	1.9 UJ
4-Chloroaniline	106-47-8	2.7	95	3.9 UJ	3.6 UJ	7.4 UJ	3.8 UJ
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
4-Nitroaniline	100-01-6	27	760	1.9 UJ	1.8 UJ	3.7 UJ	1.9 UJ
4-Nitrophenol	100-02-7	NE	NE	3.9 UJ	3.6 UJ	7.4 UJ	3.8 UJ
Acenaphthene	83-32-9	3,600	11,000	0.49 J-	0.18 UJ	2.5 J-	0.48 J-
Acenaphthylene	208-96-8	NE	NE	0.052 J-	0.18 UJ	0.1 J-	0.057 J-
Anthracene	120-12-7	18,000	54,000	0.33 J-	0.081 J-	1.4 J-	0.44 J-
Benzo[a]anthracene	56-55-3	1.1	110	0.87 J-	0.21 J-	2.1 J-	0.66 J-
Benzo[a]pyrene	50-32-8	0.11	11	0.58 J-	0.28 J-	1.3 J-	0.46 J-
Benzo[b]fluoranthene	205-99-2	1.1	110	1.5 J-	0.58 J-	2.8 J-	0.82 J-
Benzo[g,h,i]perylene	191-24-2	NE	NE	0.23 J-	0.12 J-	0.3 J-	0.22 J-
Benzo[k]fluoranthene	207-08-9	11	1,100	0.48 J-	0.17 J-	0.97 J-	0.38 J-
Bis(2-chloroethoxy)methane	111-91-1	190	570	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Bis(2-chloroethyl)ether	111-44-4	0.23	23	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Bis(2-ethylhexyl) phthalate	117-81-7	39	3,800	1.4 J-	0.9 UJ	5.5 J-	0.63 J-
Butyl benzyl phthalate	85-68-7	290	29,000	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Carbazole	86-74-8	NE	NE	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Chrysene	218-01-9	110	11,000	1.2 J-	0.3 J-	2.4 J-	0.77 J-
Dibenz(a,h)anthracene	53-70-3	0.11	11	0.064 J-	0.18 U	0.37 U	0.19 U
Dibenzofuran	132-64-9	78	230	0.98 UJ	0.9 UJ	1 J-	0.94 UJ
Diethyl phthalate	84-66-2	51,000	150,000	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Dimethyl phthalate	131-11-3	NE	NE	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Di-n-butyl phthalate	84-74-2	6,300	19,000	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Di-n-octyl phthalate	117-84-0	630	1,900	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Fluoranthene	206-44-0	2,400	7,200	3.8 J-	0.49 J-	9.6 J-	2.4 J-
Fluorene	86-73-7	2,400	7,200	0.24 J-	0.06 J-	1.6 J-	0.29 J-
Hexachlorobenzene	118-74-1	0.21	2.3	0.39 UJ	0.36 UJ	0.74 UJ	0.38 UJ
Hexachlorobutadiene	87-68-3	1.2	120	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Hexachlorocyclopentadiene	77-47-4	1.8	5.3	3.9 UJ	3.6 UJ	7.4 UJ	3.8 UJ
Hexachloroethane	67-72-1	1.8	130	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Indeno[1,2,3-cd]pyrene	193-39-5	1.1	110	0.2 J-	0.13 J-	0.34 J-	0.23 J-
Isophorone	78-59-1	570	38,000	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Naphthalene	91-20-3	2	200	0.14 J-	0.03 J-	0.31 J-	0.087 J-
Nitrobenzene	98-95-3	5.1	380	0.19 UJ	0.18 UJ	0.37 UJ	0.19 UJ
N-Nitrosodi-n-propylamine	621-64-7	0.078	7.8	0.39 UJ	0.36 UJ	0.74 UJ	0.38 UJ
N-Nitrosodiphenylamine	86-30-6	110	11,000	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Pentachlorophenol	87-86-5	1	100	3.9 UJ	3.6 UJ	7.4 UJ	3.8 UJ
Phenanthrene	85-01-8	NE	NE	0.86 J-	0.2 J-	4.8 J-	0.73 J-
Phenol	108-95-2	19,000	57,000	0.98 UJ	0.9 UJ	1.8 UJ	0.94 UJ
Pyrene	129-00-0	1,800	5,400	2.2 J-	0.29 J-	6.9 J-	1.9 J-
Dioxins and Furans (Method 8290A)							
1,2,3,4,6,7,8-HpCDD	35822-46-9	NE	NE	160	95	350	77
1,2,3,4,6,7,8-HpCDF	67562-39-4	NE	NE	42 J	11 J	51	15 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	NE	NE	5.9 U	1.5 J	5.2 J	5.8 U
1,2,3,4,7,8-HxCDD	39227-28-6	NE	NE	5.9 U	5.6 U	5.6 U	5.8 U
1,2,3,4,7,8-HxCDF	70648-26-9	NE	NE	27 J+	3.9 J	15	4.7 J+
1,2,3,6,7,8-HxCDD	57653-85-7	NE	NE	12	2.5 J	20	4.3 J
1,2,3,6,7,8-HxCDF	57117-44-9	NE	NE	11 J	1.7 J	6.1	1.8 J
1,2,3,7,8,9-HxCDD	19408-74-3	NE	NE	9.2	2.8 J	15	3.4 J
1,2,3,7,8,9-HxCDF	72918-21-9	NE	NE	5.9 U	5.6 U	5.6 U	5.8 U
1,2,3,7,8-PeCDD	40321-76-4	NE	NE	5.9 U	0.64 J	5.6 U	5.8 U
1,2,3,7,8-PeCDF	57117-41-6	NE	NE	24	1.5 J	5.6 U	1.2 J
2,3,4,6,7,8-HxCDF	60851-34-5	NE	NE	7.8	1.3 J	3.1 J	5.8 U
2,3,4,7,8-PeCDF	57117-31-4	NE	NE	40	1.8 J	5.6 U	2.6 J
2,3,7,8-TCDD	1746-01-6	0.0000048	0.00015	1.3	0.19 J	0.92 J	1.2 U
2,3,7,8-TCDF	51207-31-9	NE	NE	63 J	2.2	15 J	3.1
OCDD	3268-87-9	NE	NE	1400	1100	3300	700
OCDF	39001-02-0	NE	NE	66	27	130	34
Total Dioxin/Furan TEQ	STL01992	NE	NE	33	4.4	18	7.9
Total HpCDD	37871-00-4	NE	NE	370	500	730	190
Total HpCDF	38998-75-3	NE	NE	79 J	30 J	130	31 J
Total HxCDD	34465-46-8	0.0001	0.01	120	39	200 J	51 J
Total HxCDF	55684-94-1	NE	NE	91 J	18 J	85 J	20
Total PeCDD	36088-22-9	NE	NE	7.6 J	5.9 J	3.3 J	3.8 J
Total PeCDF	30402-15-4	NE	NE	220	15 J	49	13 J
Total TCDD	41903-57-5	NE	NE	14 J	4.2 J	11 J	2.1
Total TCDF	30402-14-3	NE	NE	460 J	16	170	21 J

Notes: See last page.

Table B-2
VALIDATED Analytical Results Summary for Soil Samples
RMG Site

		Screening Levels		Area E		Area F		
		EPA Residential Soil RSL	EPA Residential Soil RML	SSR-IS-E01-211221	SSR-IS-E02-211221	SSR-SS-F01-211221	SSR-ST-F02-211221	SSR-ST-F03-211221
				12/21/2021 14:35	12/21/2021 14:40	12/21/2021 14:45	12/21/2021 14:30	12/21/2021 14:39
Metals (Method 6010D)	**CAS Number**							
Arsenic	7440-38-2	1	68	19	15	15	7.4 J	11
Cadmium	7440-43-9	7	21	2.4	2	3.2	1.5 J+	1.9
Calcium	7440-70-2	NE	NE	--	--	--	--	--
Chromium	7440-47-3	120,000	350,000	390	490	800	340	860
Cobalt	7440-48-4	23	70	10	11	10	4.1 J	7.9
Iron	7439-89-6	55,000	160,000	270000	220000	200000	120000	130000
Lead	7439-92-1	400	400	300	160	290	66 J+	230
Magnesium	7439-95-4	NE	NE	--	--	--	--	--
Manganese	7439-96-5	1,800	5,500	3700	4900	6100	4700	9400
Nickel	7440-02-0	1,500	4,600	140	160	140	45	100
Mercury (Method 7470A)								
Mercury	7439-97-6	11	33	0.17	0.16	0.18	0.062	0.18
Polychlorinated Biphenyls (Method 8082A)								
PCB-1016	12674-11-2	4.1	12	--	--	0.19 U	0.018 U	0.18 U
PCB-1221	11104-28-2	0.2	20	--	--	0.19 U	0.018 U	0.18 U
PCB-1232	11141-16-5	0.17	17	--	--	0.19 U	0.018 U	0.18 U
PCB-1242	53469-21-9	0.23	23	--	--	0.19 U	0.018 U	0.18 U
PCB-1248	12672-29-6	0.23	23	--	--	0.86 J+	0.094 J+	0.52 J+
PCB-1254	11097-69-1	0.24	3.5	--	--	0.19 U	0.018 U	0.18 U
PCB-1260	11096-82-5	0.24	24	--	--	0.19 U	0.018 U	0.18 U
Total PCBs	1336-36-3	0.23	23	--	--	0.86 J	0.094 J	0.52 J
Semivolatile Organic Compounds (Method 8270D)								
2,2'-oxybis[1-chloropropane]	108-60-1	3,100	9,400	--	--	1.9 UJ	0.92 UJ	1.8 UJ
2,4,5-Trichlorophenol	95-95-4	6,300	19,000	--	--	3.8 UJ	1.8 UJ	3.5 UJ
2,4,6-Trichlorophenol	88-06-2	49	190	--	--	3.8 UJ	1.8 UJ	3.5 UJ
2,4-Dichlorophenol	120-83-2	190	570	--	--	3.8 UJ	1.8 UJ	3.5 UJ
2,4-Dimethylphenol	105-67-9	1,300	3,800	--	--	3.8 UJ	1.8 UJ	3.5 UJ
2,4-Dinitrophenol	51-28-5	130	380	--	--	7.7 UJ	3.7 UJ	7 UJ
2,4-Dinitrotoluene	121-14-2	1.7	170	--	--	1.9 UJ	0.92 UJ	1.8 UJ
2,6-Dinitrotoluene	606-20-2	0.36	36	--	--	1.9 UJ	0.92 UJ	1.8 UJ
2-Chloronaphthalene	91-58-7	4,800	14,000	--	--	1.9 UJ	0.92 UJ	1.8 UJ
2-Chlorophenol	95-57-8	390	1,200	--	--	1.9 UJ	0.92 UJ	1.8 UJ
2-Methylnaphthalene	91-57-6	240	720	--	--	0.32 J-	0.57 J-	0.46 J-
2-Methylphenol	95-48-7	3,200	9,500	--	--	1.9 UJ	0.92 UJ	1.8 UJ
2-Nitroaniline	88-74-4	630	1,900	--	--	1.9 UJ	0.92 UJ	1.8 UJ
2-Nitrophenol	88-75-5	NE	NE	--	--	3.8 UJ	1.8 UJ	3.5 UJ
3 & 4 Methylphenol	15831-10-4	NE	NE	--	--	1.9 UJ	0.92 UJ	1.8 UJ
3,3'-Dichlorobenzidine	91-94-1	1.2	120	--	--	1.9 UJ	0.92 UJ	1.8 UJ
3-Nitroaniline	99-09-2	NE	NE	--	--	3.8 UJ	1.8 UJ	3.5 UJ
4,6-Dinitro-2-methylphenol	534-52-1	5.1	15	--	--	7.7 UJ	3.7 UJ	7 UJ
4-Bromophenyl phenyl ether	101-55-3	NE	NE	--	--	1.9 UJ	0.92 UJ	1.8 UJ
4-Chloro-3-methylphenol	59-50-7	6,300	19,000	--	--	3.8 UJ	1.8 UJ	3.5 UJ
4-Chloroaniline	106-47-8	2.7	95	--	--	7.7 UJ	3.7 UJ	7 UJ
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	--	--	1.9 UJ	0.92 UJ	1.8 UJ
4-Nitroaniline	100-01-6	27	760	--	--	3.8 UJ	1.8 UJ	3.5 UJ
4-Nitrophenol	100-02-7	NE	NE	--	--	7.7 UJ	3.7 UJ	7 UJ
Acenaphthene	83-32-9	3,600	11,000	--	--	0.34 J-	0.071 J-	0.27 J-
Acenaphthylene	208-96-8	NE	NE	--	--	0.38 UJ	0.18 UJ	0.046 J-
Anthracene	120-12-7	18,000	54,000	--	--	1 J-	0.091 J-	0.64 J-
Benzo[a]anthracene	56-55-3	1.1	110	--	--	2.2 J-	0.29 J-	2 J-
Benzo[a]pyrene	50-32-8	0.11	11	--	--	2.4 J-	0.33 J-	2.1 J-
Benzo[b]fluoranthene	205-99-2	1.1	110	--	--	3.5 J-	0.48 J-	3.1 J-
Benzo[g,h,i]perylene	191-24-2	NE	NE	--	--	0.94 J-	0.16 J-	0.79 J-
Benzo[k]fluoranthene	207-08-9	11	1,100	--	--	1.5 J-	0.15 J-	1.2 J-
Bis(2-chloroethoxy)methane	111-91-1	190	570	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Bis(2-chloroethyl)ether	111-44-4	0.23	23	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Bis(2-ethylhexyl) phthalate	117-81-7	39	3,800	--	--	1.9 UJ	0.92 UJ	0.64 J-
Butyl benzyl phthalate	85-68-7	290	29,000	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Carbazole	86-74-8	NE	NE	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Chrysene	218-01-9	110	11,000	--	--	2.5 J-	0.51 J-	2.3 J-
Dibenz(a,h)anthracene	53-70-3	0.11	11	--	--	0.32 J-	0.18 U	0.26 J-
Dibenzofuran	132-64-9	78	230	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Diethyl phthalate	84-66-2	51,000	150,000	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Dimethyl phthalate	131-11-3	NE	NE	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Di-n-butyl phthalate	84-74-2	6,300	19,000	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Di-n-octyl phthalate	117-84-0	630	1,900	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Fluoranthene	206-44-0	2,400	7,200	--	--	4.9 J-	0.57 J-	3.9 J-
Fluorene	86-73-7	2,400	7,200	--	--	0.36 J-	0.18 UJ	0.31 J-
Hexachlorobenzene	118-74-1	0.21	2.3	--	--	0.77 UJ	0.37 UJ	0.7 UJ
Hexachlorobutadiene	87-68-3	1.2	120	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Hexachlorocyclopentadiene	77-47-4	1.8	5.3	--	--	7.7 UJ	3.7 UJ	7 UJ
Hexachloroethane	67-72-1	1.8	130	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Indeno[1,2,3-cd]pyrene	193-39-5	1.1	110	--	--	1.1 J-	0.13 J-	0.85 J-
Isophorone	78-59-1	570	38,000	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Naphthalene	91-20-3	2	200	--	--	0.28 J-	0.24 J-	0.32 J-
Nitrobenzene	98-95-3	5.1	380	--	--	0.38 UJ	0.18 UJ	0.35 UJ
N-Nitrosodi-n-propylamine	621-64-7	0.078	7.8	--	--	0.77 UJ	0.37 UJ	0.7 UJ
N-Nitrosodiphenylamine	86-30-6	110	11,000	--	--	1.9 UJ	0.92 UJ	1.8 UJ
Pentachlorophenol	87-86-5	1	100	--	--	7.7 UJ	3.7 UJ	7 UJ
Phenanthrene	85-01-8	NE	NE	--	--	3.3 J-	0.48 J-	2.5 J-
Phenol	108-95-2	19,000	57,000	--	--	1.9 UJ	0.47 J-	1.8 UJ
Pyrene	129-00-0	1,800	5,400	--	--	4.1 J-	0.066 J-	3.6 J-
Dioxins and Furans (Method 8290A)								
1,2,3,4,6,7,8-HpCDD	35822-46-9	NE	NE	--	--	110	39	100
1,2,3,4,6,7,8-HpCDF	67562-39-4	NE	NE	--	--	28 J	14	26
1,2,3,4,7,8,9-HpCDF	55673-89-7	NE	NE	--	--	5.7 U	5.3 U	5.5 U
1,2,3,4,7,8-HxCDD	39227-28-6	NE	NE	--	--	5.7 U	5.3 U	5.5 U
1,2,3,4,7,8-HxCDF	70648-26-9	NE	NE	--	--	6.5 J+	5.2 J	5.1 J+
1,2,3,6,7,8-HxCDD	57653-85-7	NE	NE	--	--	7.3	2.7 J	6
1,2,3,6,7,8-HxCDF	57117-44-9	NE	NE	--	--	2.5 J	1.6 J	2.6 J
1,2,3,7,8,9-HxCDD	19408-74-3	NE	NE	--	--	5.1 J	2.3 J	3.7 J
1,2,3,7,8,9-HxCDF	72918-21-9	NE	NE	--	--	5.7 U	5.3 U	5.5 U
1,2,3,7,8-PeCDD	40321-76-4	NE	NE	--	--	5.7 U	5.3 U	5.5 U
1,2,3,7,8-PeCDF	57117-41-6	NE	NE	--	--	2.1 J	5.3 U	5.5 U
2,3,4,6,7,8-HxCDF	60851-34-5	NE	NE	--	--	5.7 U	1.8 J	2.4 J
2,3,4,7,8-PeCDF	57117-31-4	NE	NE	--	--	4 J	3.3 J	5.5 U
2,3,7,8-TCDD	1746-01-6	0.0000048	0.00015	--	--	1.1 U	1.1 U	1.1 U
2,3,7,8-TCDF	51207-31-9	NE	NE	--	--	3.4 J	1.3	2.9 J
OCDD	3268-87-9	NE	NE	--	--	890	280	940
OCDF	39001-02-0	NE	NE	--	--	62	14	66
Total Dioxin/Furan TEQ	STL01992	NE	NE	--	--	9.7	7	8.6
Total HpCDD	37871-00-4	NE	NE	--	--	260	92	260
Total HpCDF	38998-75-3	NE	NE	--	--	62 J	21 J	65
Total HxCDD	34465-46-8	0.0001	0.01	--	--	89	28	59 J
Total HxCDF	55684-94-1	NE	NE	--	--	32	22 J	40
Total PeCDD	36088-22-9	NE	NE	--	--	2.6 J	5.3 U	1.6 J
Total PeCDF	30402-15-4	NE	NE	--	--	28 J	18 J	9.3 J
Total TCDD	41903-57-5	NE	NE	--	--	5.9	1.1 U	1.1 U
Total TCDF	30402-14-3	NE	NE	--	--	32	16 J	34

Notes: See last page.

Table B-2
VALIDATED Analytical Results Summary for Soil Samples
RMG Site

		Screening Levels		Area G			
		EPA Residential Soil RSL	EPA Residential Soil RML	SSR-SS-G01-211221	SSR-ST-G02-211221	SSR-ST-G02-211221-D	SSR-ST-G03-211221
				12/21/2021 14:05	12/21/2021 13:27	12/21/2021 13:29	12/21/2021 13:40
Metals (Method 6010D)	**CAS Number**						
Arsenic	7440-38-2	1	68	15	13	14	24
Cadmium	7440-43-9	7	21	1.7 J+	2	1.8	32
Calcium	7440-70-2	NE	NE	--	--	--	--
Chromium	7440-47-3	120,000	350,000	310	300	370	530
Cobalt	7440-48-4	23	70	9.6	6	9.1	44
Iron	7439-89-6	55,000	160,000	240000	150000	170000	310000
Lead	7439-92-1	400	400	94	220	260	410
Magnesium	7439-95-4	NE	NE	--	--	--	--
Manganese	7439-96-5	1,800	5,500	3000	5300	4900	5500
Nickel	7440-02-0	1,500	4,600	110	65 J	140 J	320
Mercury (Method 7470A)							
Mercury	7439-97-6	11	33	0.018 U	0.0063 J	0.16 J	1.3
Polychlorinated Biphenyls (Method 8082A)							
PCB-1016	12674-11-2	4.1	12	0.019 U	0.018 U	0.018 U	0.37 U
PCB-1221	11104-28-2	0.2	20	0.019 U	0.018 U	0.018 U	0.37 U
PCB-1232	11141-16-5	0.17	17	0.019 U	0.018 U	0.018 U	0.37 U
PCB-1242	53469-21-9	0.23	23	0.019 U	0.018 U	0.018 U	0.37 U
PCB-1248	12672-29-6	0.23	23	0.083 J+	0.2 J+	0.18 J+	2.8 J+
PCB-1254	11097-69-1	0.24	3.5	0.019 U	0.018 U	0.018 U	0.37 U
PCB-1260	11096-82-5	0.24	24	0.019 U	0.018 U	0.018 U	0.37 U
Total PCBs	1336-36-3	0.23	23	0.083 J	0.2 J	0.18 J	2.8 J
Semivolatile Organic Compounds (Method 8270D)							
2,2'-oxybis[1-chloropropane]	108-60-1	3,100	9,400	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
2,4,5-Trichlorophenol	95-95-4	6,300	19,000	3.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ
2,4,6-Trichlorophenol	88-06-2	49	190	3.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ
2,4-Dichlorophenol	120-83-2	190	570	3.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ
2,4-Dimethylphenol	105-67-9	1,300	3,800	3.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ
2,4-Dinitrophenol	51-28-5	130	380	7.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ
2,4-Dinitrotoluene	121-14-2	1.7	170	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
2,6-Dinitrotoluene	606-20-2	0.36	36	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
2-Chloronaphthalene	91-58-7	4,800	14,000	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
2-Chlorophenol	95-57-8	390	1,200	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
2-Methylnaphthalene	91-57-6	240	720	0.21 J-	0.27 J-	0.063 J-	0.074 J-
2-Methylphenol	95-48-7	3,200	9,500	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
2-Nitroaniline	88-74-4	630	1,900	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
2-Nitrophenol	88-75-5	NE	NE	3.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ
3 & 4 Methylphenol	15831-10-4	NE	NE	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
3,3'-Dichlorobenzidine	91-94-1	1.2	120	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
3-Nitroaniline	99-09-2	NE	NE	3.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ
4,6-Dinitro-2-methylphenol	534-52-1	5.1	15	7.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ
4-Bromophenyl phenyl ether	101-55-3	NE	NE	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
4-Chloro-3-methylphenol	59-50-7	6,300	19,000	3.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ
4-Chloroaniline	106-47-8	2.7	95	7.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
4-Nitroaniline	100-01-6	27	760	3.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ
4-Nitrophenol	100-02-7	NE	NE	7.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ
Acenaphthene	83-32-9	3,600	11,000	0.37 UJ	0.041 J-	0.18 UJ	0.44 J-
Acenaphthylene	208-96-8	NE	NE	0.37 UJ	0.18 UJ	0.18 UJ	0.044 J-
Anthracene	120-12-7	18,000	54,000	0.066 J-	0.071 J-	0.096 J-	0.37 J-
Benzo[a]anthracene	56-55-3	1.1	110	0.2 J-	0.17 J-	0.51 J-	0.72 J-
Benzo[a]pyrene	50-32-8	0.11	11	0.21 J-	0.2 J-	0.74 J	0.18 UJ
Benzo[b]fluoranthene	205-99-2	1.1	110	0.39 J-	0.37 J-	1.3 J	1.1 J
Benzo[g,h,i]perylene	191-24-2	NE	NE	0.37 UJ	0.12 J-	0.23 J	0.17 J
Benzo[k]fluoranthene	207-08-9	11	1,100	0.14 J-	0.16 J-	0.53 J	0.4 J
Bis(2-chloroethoxy)methane	111-91-1	190	570	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
Bis(2-chloroethyl)ether	111-44-4	0.23	23	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
Bis(2-ethylhexyl) phthalate	117-81-7	39	3,800	1.9 UJ	0.89 UJ	7.1 J-	1.1 J-
Butyl benzyl phthalate	85-68-7	290	29,000	1.9 UJ	0.89 UJ	0.62 J-	0.91 UJ
Carbazole	86-74-8	NE	NE	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
Chrysene	218-01-9	110	11,000	0.28 J-	0.25 J-	0.62 J-	0.81 J-
Dibenz(a,h)anthracene	53-70-3	0.11	11	0.37 UJ	0.18 UJ	0.18 UJ	0.18 UJ
Dibenzofuran	132-64-9	78	230	1.9 UJ	0.89 UJ	0.89 UJ	0.21 J-
Diethyl phthalate	84-66-2	51,000	150,000	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
Dimethyl phthalate	131-11-3	NE	NE	1.9 UJ	0.89 UJ	0.33 J-	0.91 UJ
Di-n-butyl phthalate	84-74-2	6,300	19,000	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
Di-n-octyl phthalate	117-84-0	630	1,900	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
Fluoranthene	206-44-0	2,400	7,200	0.46 J-	0.35 J-	0.72 J-	2.1 J-
Fluorene	86-73-7	2,400	7,200	0.37 UJ	0.18 UJ	0.035 J-	0.25 J-
Hexachlorobenzene	118-74-1	0.21	2.3	0.76 UJ	0.36 UJ	0.36 UJ	0.36 UJ
Hexachlorobutadiene	87-68-3	1.2	120	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
Hexachlorocyclopentadiene	77-47-4	1.8	5.3	7.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ
Hexachloroethane	67-72-1	1.8	130	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
Indeno[1,2,3-cd]pyrene	193-39-5	1.1	110	0.12 J-	0.11 J-	0.18 UJ	0.18 UJ
Isophorone	78-59-1	570	38,000	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
Naphthalene	91-20-3	2	200	0.098 J-	0.19 J-	0.044 J-	0.091 J-
Nitrobenzene	98-95-3	5.1	380	0.37 UJ	0.18 UJ	0.18 UJ	0.18 UJ
N-Nitrosodi-n-propylamine	621-64-7	0.078	7.8	0.76 UJ	0.36 UJ	0.36 UJ	0.36 UJ
N-Nitrosodiphenylamine	86-30-6	110	11,000	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
Pentachlorophenol	87-86-5	1	100	7.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ
Phenanthrene	85-01-8	NE	NE	0.27 J-	0.27 J-	0.35 J-	0.67 J-
Phenol	108-95-2	19,000	57,000	1.9 UJ	0.89 UJ	0.89 UJ	0.91 UJ
Pyrene	129-00-0	1,800	5,400	0.47 J-	0.35 J-	1.3 J-	3.1 J-
Dioxins and Furans (Method 8290A)							
1,2,3,4,6,7,8-HpCDD	35822-46-9	NE	NE	59	75	59	190
1,2,3,4,6,7,8-HpCDF	67562-39-4	NE	NE	16 J	15 J	14 J	77 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	NE	NE	5.7 U	5.5 U	5.5 U	28 U
1,2,3,4,7,8-HxCDD	39227-28-6	NE	NE	5.7 U	5.5 U	5.5 U	5.4 U
1,2,3,4,7,8-HxCDF	70648-26-9	NE	NE	4.6 J+	4 J	4.4 J	19
1,2,3,6,7,8-HxCDD	57653-85-7	NE	NE	3.7 J	3.9 J	3.7 J	11
1,2,3,6,7,8-HxCDF	57117-44-9	NE	NE	2.2 J	1.6 J	1.5 J	8.2
1,2,3,7,8,9-HxCDD	19408-74-3	NE	NE	5.7 U	3 J	2.8 J	6.4
1,2,3,7,8,9-HxCDF	72918-21-9	NE	NE	5.7 U	5.5 U	5.5 U	5.4 U
1,2,3,7,8-PeCDD	40321-76-4	NE	NE	5.7 U	5.5 U	5.5 U	5.4 U
1,2,3,7,8-PeCDF	57117-41-6	NE	NE	1.5 J	5.5 U	1.1 J	6.5
2,3,4,6,7,8-HxCDF	60851-34-5	NE	NE	5.7 U	5.5 U	5.5 U	8.8
2,3,4,7,8-PeCDF	57117-31-4	NE	NE	2.4 J	5.5 U	1.7 J	7
2,3,7,8-TCDD	1746-01-6	0.0000048	0.00015	1.1 U	1.1 U	0.41 J	1.1 U
2,3,7,8-TCDF	51207-31-9	NE	NE	2 U	2.1 U	2 J	7.8 J
OCDD	3268-87-9	NE	NE	420	540	430	1400
OCDF	39001-02-0	NE	NE	21	26	20	110
Total Dioxin/Furan TEQ	STL01992	NE	NE	7.4	7.4	6.9	15
Total HpCDD	37871-00-4	NE	NE	140	170	140	380
Total HpCDF	38998-75-3	NE	NE	28 J	28 J	24 J	77 J
Total HxCDD	34465-46-8	0.0001	0.01	37	48 J	37 J	110
Total HxCDF	55684-94-1	NE	NE	20 J	18	16	72
Total PeCDD	36088-22-9	NE	NE	3.3 J	5.5 U	3.7 J	6.9 J
Total PeCDF	30402-15-4	NE	NE	20 J	13 J	17 J	58 J
Total TCDD	41903-57-5	NE	NE	1.1 U	0.81 J	0.41 J	6.1 J
Total TCDF	30402-14-3	NE	NE	21 J	8.6 J	15 J	55

Notes: See last page.

Table B-2
VALIDATED Analytical Results Summary for Soil Samples
RMG Site

		Screening Levels		Area O		Area P		Not Applicable
		EPA Residential Soil RSL	EPA Residential Soil RML	SSR-IS-O01-211221	SSR-IS-O02-211221	SSR-IS-P01-211221	SSR-IS-P02-211221	SSR-RS-BLANK-211221
				12/21/2021 16:20	12/21/2021 16:00	12/21/2021 16:22	12/21/2021 15:31	12/21/2021 17:00
Metals (Method 6010D)	**CAS Number**							
Arsenic	7440-38-2	1	68	15	15	14	20	--
Cadmium	7440-43-9	7	21	24	25	11	19	--
Calcium	7440-70-2	NE	NE	--	--	--	--	--
Chromium	7440-47-3	120,000	350,000	320	290	300	370	--
Cobalt	7440-48-4	23	70	290	340	150	190	--
Iron	7439-89-6	55,000	160,000	51000	40000	49000	58000	--
Lead	7439-92-1	400	400	1100	1400	750	1000	--
Magnesium	7439-95-4	NE	NE	--	--	--	--	--
Manganese	7439-96-5	1,800	5,500	1900	1600	1300	1500	--
Nickel	7440-02-0	1,500	4,600	270	260	250	310	--
Mercury (Method 7470A)								
Mercury	7439-97-6	11	33	1.8	1.7	0.92	1.8	--
Polychlorinated Biphenyls (Method 8082A)								
PCB-1016	12674-11-2	4.1	12	--	--	--	--	--
PCB-1221	11104-28-2	0.2	20	--	--	--	--	--
PCB-1232	11141-16-5	0.17	17	--	--	--	--	--
PCB-1242	53469-21-9	0.23	23	--	--	--	--	--
PCB-1248	12672-29-6	0.23	23	--	--	--	--	--
PCB-1254	11097-69-1	0.24	3.5	--	--	--	--	--
PCB-1260	11096-82-5	0.24	24	--	--	--	--	--
Total PCBs	1336-36-3	0.23	23	--	--	--	--	--
Semivolatile Organic Compounds (Method 8270D)								
2,2'-oxybis[1-chloropropane]	108-60-1	3,100	9,400	--	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	6,300	19,000	--	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	49	190	--	--	--	--	--
2,4-Dichlorophenol	120-83-2	190	570	--	--	--	--	--
2,4-Dimethylphenol	105-67-9	1,300	3,800	--	--	--	--	--
2,4-Dinitrophenol	51-28-5	130	380	--	--	--	--	--
2,4-Dinitrotoluene	121-14-2	1.7	170	--	--	--	--	--
2,6-Dinitrotoluene	606-20-2	0.36	36	--	--	--	--	--
2-Chloronaphthalene	91-58-7	4,800	14,000	--	--	--	--	--
2-Chlorophenol	95-57-8	390	1,200	--	--	--	--	--
2-Methylnaphthalene	91-57-6	240	720	--	--	--	--	--
2-Methylphenol	95-48-7	3,200	9,500	--	--	--	--	--
2-Nitroaniline	88-74-4	630	1,900	--	--	--	--	--
2-Nitrophenol	88-75-5	NE	NE	--	--	--	--	--
3 & 4 Methylphenol	15831-10-4	NE	NE	--	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	1.2	120	--	--	--	--	--
3-Nitroaniline	99-09-2	NE	NE	--	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	5.1	15	--	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	NE	NE	--	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	6,300	19,000	--	--	--	--	--
4-Chloroaniline	106-47-8	2.7	95	--	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	NE	NE	--	--	--	--	--
4-Nitroaniline	100-01-6	27	760	--	--	--	--	--
4-Nitrophenol	100-02-7	NE	NE	--	--	--	--	--
Acenaphthene	83-32-9	3,600	11,000	--	--	--	--	--
Acenaphthylene	208-96-8	NE	NE	--	--	--	--	--
Anthracene	120-12-7	18,000	54,000	--	--	--	--	--
Benzo[a]anthracene	56-55-3	1.1	110	--	--	--	--	--
Benzo[a]pyrene	50-32-8	0.11	11	--	--	--	--	--
Benzo[b]fluoranthene	205-99-2	1.1	110	--	--	--	--	--
Benzo[g,h,i]perylene	191-24-2	NE	NE	--	--	--	--	--
Benzo[k]fluoranthene	207-08-9	11	1,100	--	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	190	570	--	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	0.23	23	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	117-81-7	39	3,800	--	--	--	--	--
Butyl benzyl phthalate	85-68-7	290	29,000	--	--	--	--	--
Carbazole	86-74-8	NE	NE	--	--	--	--	--
Chrysene	218-01-9	110	11,000	--	--	--	--	--
Dibenz(a,h)anthracene	53-70-3	0.11	11	--	--	--	--	--
Dibenzofuran	132-64-9	78	230	--	--	--	--	--
Diethyl phthalate	84-66-2	51,000	150,000	--	--	--	--	--
Dimethyl phthalate	131-11-3	NE	NE	--	--	--	--	--
Di-n-butyl phthalate	84-74-2	6,300	19,000	--	--	--	--	--
Di-n-octyl phthalate	117-84-0	630	1,900	--	--	--	--	--
Fluoranthene	206-44-0	2,400	7,200	--	--	--	--	--
Fluorene	86-73-7	2,400	7,200	--	--	--	--	--
Hexachlorobenzene	118-74-1	0.21	2.3	--	--	--	--	--
Hexachlorobutadiene	87-68-3	1.2	120	--	--	--	--	--
Hexachlorocyclopentadiene	77-47-4	1.8	5.3	--	--	--	--	--
Hexachloroethane	67-72-1	1.8	130	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	193-39-5	1.1	110	--	--	--	--	--
Isophorone	78-59-1	570	38,000	--	--	--	--	--
Naphthalene	91-20-3	2	200	--	--	--	--	--
Nitrobenzene	98-95-3	5.1	380	--	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	0.078	7.8	--	--	--	--	--
N-Nitrosodiphenylamine	86-30-6	110	11,000	--	--	--	--	--
Pentachlorophenol	87-86-5	1	100	--	--	--	--	--
Phenanthrene	85-01-8	NE	NE	--	--	--	--	--
Phenol	108-95-2	19,000	57,000	--	--	--	--	--
Pyrene	129-00-0	1,800	5,400	--	--	--	--	--
Dioxins and Furans (Method 8290A)								
1,2,3,4,6,7,8-HpCDD	35822-46-9	NE	NE	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	67562-39-4	NE	NE	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	55673-89-7	NE	NE	--	--	--	--	--
1,2,3,4,7,8-HxCDD	39227-28-6	NE	NE	--	--	--	--	--
1,2,3,4,7,8-HxCDF	70648-26-9	NE	NE	--	--	--	--	--
1,2,3,6,7,8-HxCDD	57653-85-7	NE	NE	--	--	--	--	--
1,2,3,6,7,8-HxCDF	57117-44-9	NE	NE	--	--	--	--	--
1,2,3,7,8,9-HxCDD	19408-74-3	NE	NE	--	--	--	--	--
1,2,3,7,8,9-HxCDF	72918-21-9	NE	NE	--	--	--	--	--
1,2,3,7,8-PeCDD	40321-76-4	NE	NE	--	--	--	--	--
1,2,3,7,8-PeCDF	57117-41-6	NE	NE	--	--	--	--	--
2,3,4,6,7,8-HxCDF	60851-34-5	NE	NE	--	--	--	--	--
2,3,4,7,8-PeCDF	57117-31-4	NE	NE	--	--	--	--	--
2,3,7,8-TCDD	1746-01-6	0.0000048	0.00015	--	--	--	--	--
2,3,7,8-TCDF	51207-31-9	NE	NE	--	--	--	--	--
OCDD	3268-87-9	NE	NE	--	--	--	--	--
OCDF	39001-02-0	NE	NE	--	--	--	--	--
Total Dioxin/Furan TEQ	STL01992	NE	NE	--	--	--	--	--
Total HpCDD	37871-00-4	NE	NE	--	--	--	--	--
Total HpCDF	38998-75-3	NE	NE	--	--	--	--	--
Total HxCDD	34465-46-8	0.0001	0.01	--	--	--	--	--
Total HxCDF	55684-94-1	NE	NE	--	--	--	--	--
Total PeCDD	36088-22-9	NE	NE	--	--	--	--	--
Total PeCDF	30402-15-4	NE	NE	--	--	--	--	--
Total TCDD	41903-57-5	NE	NE	--	--	--	--	--
Total TCDF	30402-14-3	NE	NE	--	--	--	--	--

Notes: See last page.

Notes:

	= result greater than the EPA RSL for Residential Soil
	= result greater than the EPA RML for the Residential Soil
	= result greater than the EPA RML and RSL for Residential Soil
	= analyte was not detected and result was reported at the MDL, but the MDL is greater than the EPA RSL or RML for Residential Soil

Result Qualifiers: All results and qualifiers have been validated and should be considered final.
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
J- = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value, biased low.
J+ = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value, biased high.
U = analyte was not detected.

-- = Not analyzed
EPA = U. S. Environmental Protection Agency
HQ = Hazard quotient
MDL = Method detection limit
mg/kg = milligram per kilogram
NE = Not established
pg/g = picogram per gram
RL = Reporting limit
RML = Removal management level
RSL = Regional screening level
TCR = Target cancer risk

EPA Regional Screening Levels (RSLs) TCR 1E-06 and HQ 1.0 Generic Tables as of November 2021:
https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
EPA Removel Management Levels (RMLs) TCR 1E-04 and HQ 3.0 Generic Tables as of November 2021:
https://www.epa.gov/risk/regional-removal-management-levels-chemicals-rmls

APPENDIX C

IRAP-h Receptor-Specific Exposure Factors

Date : 2/22/2022

EXPOSURE SCENARIO PARAMETERS

RECEPTOR: HSF1	UTM X: 454,778.60	UTM Y: 4,614,766.66

Resident Adult	Resident Child	Farmer Adult	Farmer Child	Fisher Adult	Fisher Child
Yes	Yes	No	No	Yes	Yes

DESCRIPTION							UNITS
Averaging time for carcinogens	70	70	--	--	70	70	yr
Averaging time for noncarcinogens	30	6	--	--	30	6	yr
Consumption rate of BEEF	0.0	0.0	--	--	--	--	kg/kg-day FW
Body weight	80	15	--	--	80	15	kg
Consumption rate of POULTRY	0.0	0.0	--	--	--	--	kg/kg-day FW
Consumption rate of ABOVEGROUND PRODUCE	0.00032	0.00077	--	--	--	--	kg/kg-day DW
Consumption rate of BELOWGROUND PRODUCE	0.00014	0.00023	--	--	--	--	kg/kg-day DW
Consumption rate of DRINKING WATER	0.0	0.0	--	--	--	--	L/day
Consumption rate of PROTECTED ABOVEGROUND P	0.00061	0.0015	--	--	--	--	kg/kg-day DW
Consumption rate of SOIL	0.0001	0.0002	--	--	--	--	kg/d
Exposure duration	30	6	--	--	30	6	yr
Exposure frequency	350	350	--	--	350	350	day/yr
Consumption rate of EGGS	0.0	0.0	--	--	--	--	kg/kg-day FW
Fraction of contaminated ABOVEGROUND PRODUCE	1.0	1.0	--	--	--	--	--
Fraction of contaminated DRINKING WATER	1.0	1.0	--	--	--	--	--
Fraction contaminated SOIL	1.0	1.0	--	--	--	--	--
Consumption rate of FISH	0.0	0.0	--	--	0.00125	0.00088	kg/kg-day FW
Fraction of contaminated FISH	0.25	0.25	--	--	0.25	0.25	--
Inhalation exposure duration	30	6	--	--	--	--	yr
Inhalation exposure frequency	350	350	--	--	--	--	day/yr
Inhalation exposure time	24	24	--	--	--	--	hr/day
Fraction of contaminated BEEF	1	1	--	--	--	--	--
Fraction of contaminated POULTRY	1	1	--	--	--	--	--
Fraction of contaminated EGGS	1	1	--	--	--	--	--
Fraction of contaminated MILK	1	1	--	--	--	--	--
Fraction of contaminated PORK	1	1	--	--	--	--	--
Inhalation rate	0.83	0.30	--	--	--	--	m^3/hr
Consumption rate of MILK	0.0	0.0	--	--	--	--	kg/kg-day FW
Consumption rate of PORK	0.0	0.0	--	--	--	--	kg/kg-day FW
Time period at the beginning of combustion	0	0	--	--	--	--	yr
Length of exposure duration	30	6	--	--	30	6	yr

Notes:
Highlighted exposure factors are not IRAP-h default values and have been updated according using the 2011 EPA Exposure Factor Handbook update or best professional judgment. All other exposure factors use IRAP-h default values.
-- Not Applicable

APPENDIX D

Toxicity Factor Summary Table

Appendix D
Toxicity Factor Summary Table
RMG Site, Chicago, Illinois

COPC	CAS Number	Acute Toxicity Factor[1]	Chronic Toxicity Factors[2]			
		AIEC mg/m^3	Oral CSF (mg/kg-day)$^{-1}$	RfD (mg/kg-day)	RfC (mg/m^3)	Inhalation URF (µg/m^3)
Arsenic	7440-38-2	1.5	1.5	0.0003	0.000015	0.0043
Benzo(a)anthracene	56-55-3	0.6	0.1	--	--	0.00006
Benzo(a)pyrene	50-32-8	0.6	1	0.0003	0.000002	0.0006
Benzo(b)fluoranthene	205-99-2	0.12	0.1	--	--	0.00006
Benzo(k)fluoranthene	207-08-9	0	0.01	--	--	0.000006
Cadmium	7440-43-9	0.1	--	0.0001	0.00001	0.0018
Chrysene	218-01-9	0.6	0.001	--	--	0.0000006
Dibenz(a,h)anthracene	53-70-3	0.093	1	--	--	0.0006
Indeno(1,2,3-cd) pyrene	193-39-5	1.2	0.1	--	--	0.00006
Lead	7439-92-1	0.15	--	--	--	--
Mercury	7439-97-6	0.15	--	--	0.0003	--
Nickel	7440-02-0	4.5	--	0.02	0.00009	0.00026
Total TEQ	1746-01-6	0.00013	130000	7E-10	0.00000004	38
Iron	7439-89-6	3.2	--	0.7	--	--
Manganese	7439-96-5	3	--	0.14	0.00005	--
PCB-1248	12672-29-6	1.5	2	--	--	0.00057
Cobalt	7440-48-4	0.18	--	0.0003	0.000006	0.009
Diesel Engine Exhaust	E17136615	300	--	--	0.005	0.0003
Mercuric chloride	7487-94-7	0.1	--	0.0003	0.0003	--
Methyl mercury	22967-92-6	0.032	--	0.0001	--	--

Notes:

[1]Acute toxicity factors obtained from the Department of Energy's Protective Action Criteria (PAC). https://edms.energy.gov/pac/TeelDocs
[2] Chronic Toxicity Factors obtained from the November 2021 US Environmental Protection Agency's Regional Screening Level (RSL) Summary Table. https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
AIEC = Acute Inhalation Exposure Criteria
CAS = Chemical Abstract Service
COPC = Compound of Potential Concern
CSF = Carcinogenic Chronic Oral Cancer Slope Factor
mg/kg-day = milligram per kilogram per day
mg/m^3 = milligram per cubic meter
PCB = Polychlorinated biphenyl
RfD = Reference Dose
RfC = Reference Concentrations
TEQ = Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin
URF = Inhalation Unit Risk Factor
µg/m^3 = microgram per cubic meter

APPENDIX E

IRAP-h Modeled Media Concentrations

Table E-1
IRAP-h Modeled Soil Concentrations
RMG Site, Chicago, Illinois

Receptor Location				Grid Receptor	Grid Receptor	Grid Receptor	Grid Receptor
COPC Name	**CAS Number**	**Rowan Park**	**Day Care**	**01GRP04**	**01GRP05**	**02GRP04**	**02GRP05**
Arsenic	7440-38-2	2.09E-09	1.17E-09	4.13E-09	2.88E-09	3.66E-09	2.61E-09
Benzo(a)anthracene	56-55-3	1.75E-07	1.07E-07	2.72E-07	2.13E-07	2.78E-07	2.13E-07
Benzo(a)pyrene	50-32-8	1.93E-07	1.20E-07	2.99E-07	2.35E-07	3.04E-07	2.35E-07
Benzo(b)fluoranthene	205-99-2	1.86E-08	1.13E-08	2.88E-08	2.25E-08	2.95E-08	2.27E-08
Benzo(k)fluoranthene	207-08-9	4.94E-07	2.95E-07	7.71E-07	6.00E-07	7.93E-07	6.06E-07
Cadmium	7440-43-9	3.17E-07	1.80E-07	6.10E-07	4.31E-07	5.43E-07	3.92E-07
Chrysene	218-01-9	1.83E-07	1.14E-07	2.84E-07	2.22E-07	2.89E-07	2.22E-07
Cobalt	7440-48-4	8.75E-03	5.26E-03	1.68E-02	1.20E-02	1.46E-02	1.07E-02
Dibenz(a,h)anthracene	53-70-3	1.08E-07	6.18E-08	1.73E-07	1.32E-07	1.79E-07	1.34E-07
Diesel Engine Exhaust	17136615	5.82E-10	3.39E-10	1.06E-09	7.78E-10	9.59E-10	7.14E-10
Indeno(1,2,3-cd) pyrene	193-39-5	2.29E-07	1.34E-07	3.62E-07	2.79E-07	3.75E-07	2.83E-07
Iron	7439-89-6	1.00E+00	5.60E-01	1.69E+00	1.27E+00	1.71E+00	1.25E+00
Lead	7439-92-1	4.19E-04	2.36E-04	8.13E-04	5.72E-04	7.24E-04	5.21E-04
Manganese	7439-96-5	1.04E+00	5.95E-01	1.98E+00	1.41E+00	1.76E+00	1.28E+00
Mercuric chloride	7487-94-7	5.26E-04	3.21E-04	1.03E-03	7.24E-04	9.06E-04	6.51E-04
Methyl mercury	22967-92-6	1.06E-05	6.45E-06	2.06E-05	1.45E-05	1.82E-05	1.31E-05
Nickel	7440-02-0	5.54E-06	3.08E-06	1.09E-05	7.62E-06	9.69E-06	6.92E-06
PCB-1248	12672-29-6	2.83E-09	1.71E-09	4.41E-09	3.44E-09	4.49E-09	3.44E-09
Total TEQ	1746-01-6	1.61E-06	7.46E-07	2.64E-06	1.95E-06	2.97E-06	2.11E-06

Notes:
All soil concentrations are presented in units milligram per kilogram (mg/kg).
CAS - Chemical abstract service
COPC - Contaminant of potential concern
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table E-1
IRAP-h Modeled Soil Concentrations
RMG Site, Chicago, Illinois

Receptor Location		Grid Receptor 03GRP04	Grid Receptor 03GRP05	Grid Receptor 05GRP04	Grid Receptor 05GRP05
COPC Name	**CAS Number**				
Arsenic	7440-38-2	4.28E-09	3.00E-09	3.84E-09	2.81E-09
Benzo(a)anthracene	56-55-3	2.55E-07	2.04E-07	2.39E-07	1.95E-07
Benzo(a)pyrene	50-32-8	2.83E-07	2.27E-07	2.68E-07	2.19E-07
Benzo(b)fluoranthene	205-99-2	2.69E-08	2.15E-08	2.51E-08	2.04E-08
Benzo(k)fluoranthene	207-08-9	7.13E-07	5.68E-07	6.58E-07	5.35E-07
Cadmium	7440-43-9	6.34E-07	4.49E-07	5.69E-07	4.20E-07
Chrysene	218-01-9	2.68E-07	2.15E-07	2.54E-07	2.07E-07
Cobalt	7440-48-4	1.83E-02	1.31E-02	1.79E-02	1.32E-02
Dibenz(a,h)anthracene	53-70-3	1.56E-07	1.23E-07	1.39E-07	1.13E-07
Diesel Engine Exhaust	17136615	1.14E-09	8.18E-10	1.04E-09	7.71E-10
Indeno(1,2,3-cd) pyrene	193-39-5	3.31E-07	2.62E-07	3.04E-07	2.46E-07
Iron	7439-89-6	1.61E+00	1.24E+00	1.58E+00	1.22E+00
Lead	7439-92-1	8.40E-04	5.92E-04	7.44E-04	5.48E-04
Manganese	7439-96-5	2.11E+00	1.49E+00	2.04E+00	1.46E+00
Mercuric chloride	7487-94-7	1.13E-03	7.91E-04	1.03E-03	7.63E-04
Methyl mercury	22967-92-6	2.27E-05	1.59E-05	2.07E-05	1.53E-05
Nickel	7440-02-0	1.13E-05	7.91E-06	9.97E-06	7.29E-06
PCB-1248	12672-29-6	4.12E-09	3.29E-09	3.84E-09	3.12E-09
Total TEQ	1746-01-6	2.06E-06	1.60E-06	1.64E-06	1.30E-06

Notes:
All soil concentrations are presented in units
CAS - Chemical abstract service
COPC - Contaminant of potential concern
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetr

Table E-2
IRAP-h Modeled Soil Acute and Chronic Air Concentrations
RMG Site, Chicago, Illinois

Receptor Location		Rowan Park		Day Care		Grid Receptor 01GRP04		Grid Receptor 01GRP05		Grid Receptor 02GRP04	
COPC Name	**CAS Number**	**Acute**	**Chronic**	**Acute**	**Chronic**	**Acute**	**Chronic**	**Acute**	**Chronic**	**Acute**	**Chronic**
Arsenic	7440-38-2	2.26E-03	1.76E-05	3.27E-03	1.31E-05	3.89E-03	3.61E-05	3.33E-03	2.55E-05	3.60E-03	2.98E-05
Benzo(a)anthracene	56-55-3	1.97E-06	8.36E-09	1.55E-06	5.59E-09	2.42E-06	1.30E-08	2.06E-06	1.04E-08	2.27E-06	1.23E-08
Benzo(a)pyrene	50-32-8	2.77E-06	1.20E-08	2.22E-06	8.10E-09	3.40E-06	1.84E-08	2.96E-06	1.48E-08	3.21E-06	1.76E-08
Benzo(b)fluoranthene	205-99-2	2.24E-07	9.91E-10	1.79E-07	6.57E-10	2.73E-07	1.52E-09	2.41E-07	1.22E-09	2.63E-07	1.46E-09
Benzo(k)fluoranthene	207-08-9	1.80E-06	7.85E-09	1.42E-06	5.16E-09	2.20E-06	1.22E-08	1.90E-06	9.71E-09	2.11E-06	1.17E-08
Cadmium	7440-43-9	4.53E-03	3.65E-05	6.51E-03	2.75E-05	7.87E-03	7.44E-05	6.71E-03	5.28E-05	7.26E-03	6.11E-05
Chrysene	218-01-9	1.47E-06	6.05E-09	1.15E-06	4.06E-09	1.80E-06	9.36E-09	1.53E-06	7.48E-09	1.68E-06	8.91E-09
Cobalt	7440-48-4	9.70E-03	7.54E-05	1.35E-02	5.67E-05	1.71E-02	1.53E-04	1.45E-02	1.09E-04	1.58E-02	1.26E-04
Dibenz(a,h)anthracene	53-70-3	8.50E-07	3.59E-09	6.43E-07	2.31E-09	1.05E-06	5.77E-09	8.72E-07	4.52E-09	9.87E-07	5.44E-09
Diesel Engine Exhaust	17136615	1.22E-04	6.69E-07	9.93E-05	4.19E-07	1.83E-04	1.72E-06	1.55E-04	1.23E-06	1.44E-04	1.03E-06
Indeno(1,2,3-cd) pyrene	193-39-5	8.38E-07	4.46E-09	6.06E-07	2.80E-09	1.06E-06	7.20E-09	9.08E-07	5.60E-09	1.06E-06	6.95E-09
Iron	7439-89-6	2.79E+00	1.34E-02	1.93E+00	7.76E-03	3.62E+00	2.27E-02	2.96E+00	1.72E-02	3.76E+00	2.19E-02
Lead	7439-92-1	4.27E-01	3.45E-03	6.23E-01	2.60E-03	7.43E-01	7.05E-03	6.34E-01	4.99E-03	6.84E-01	5.79E-03
Manganese	7439-96-5	9.07E-01	6.89E-03	1.17E+00	4.98E-03	1.52E+00	1.38E-02	1.27E+00	9.81E-03	1.40E+00	1.16E-02
Mercuric chloride	7487-94-7	2.44E-03	1.34E-05	3.76E-03	1.07E-05	4.46E-03	2.58E-05	3.88E-03	1.91E-05	2.73E-03	2.08E-05
Mercury	7439-97-6	1.11E-05	5.93E-08	1.72E-05	4.78E-08	2.04E-05	1.14E-07	1.77E-05	8.41E-08	1.21E-05	9.15E-08
Nickel	7440-02-0	8.33E-02	6.72E-04	1.24E-01	5.06E-04	1.46E-01	1.38E-03	1.24E-01	9.75E-04	1.34E-01	1.13E-03
PCB-1248	12672-29-6	4.91E-09	2.18E-11	3.96E-09	1.47E-11	6.09E-09	3.40E-11	5.20E-09	2.71E-11	5.76E-09	3.21E-11
Total TEQ	1746-01-6	4.18E-06	1.46E-08	2.96E-06	8.17E-09	5.01E-06	2.41E-08	3.91E-06	1.85E-08	4.85E-06	2.34E-08

Notes:
All air concentrations are presented in units microgram per cubic meter ($\mu g/m^3$).
CAS - Chemical abstract service
COPC - Contaminant of potential concern
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table E-2
IRAP-h Modeled Soil Acute and Chronic Air Concentrations
RMG Site, Chicago, Illinois

	Receptor Location	Grid Receptor 02GRP05		Grid Receptor 03GRP04		Grid Receptor 03GRP05		Grid Receptor 05GRP04		Grid Receptor 05GRP05	
COPC Name	**CAS Number**	**Acute**	**Chronic**	**Acute**	**Chronic**	**Acute**	**Chronic**	**Acute**	**Chronic**	**Acute**	**Chronic**
Arsenic	7440-38-2	2.74E-03	2.13E-05	7.89E-03	4.84E-05	6.17E-03	3.30E-05	6.76E-03	4.97E-05	6.12E-03	3.58E-05
Benzo(a)anthracene	56-55-3	2.13E-06	9.71E-09	2.28E-06	1.26E-08	2.27E-06	1.03E-08	2.65E-06	1.22E-08	2.10E-06	1.01E-08
Benzo(a)pyrene	50-32-8	3.03E-06	1.39E-08	3.25E-06	1.81E-08	3.23E-06	1.48E-08	3.81E-06	1.77E-08	2.97E-06	1.46E-08
Benzo(b)fluoranthene	205-99-2	2.48E-07	1.16E-09	2.61E-07	1.48E-09	2.55E-07	1.20E-09	3.00E-07	1.42E-09	2.35E-07	1.17E-09
Benzo(k)fluoranthene	207-08-9	1.97E-06	9.15E-09	2.07E-06	1.17E-08	2.03E-06	9.55E-09	2.36E-06	1.12E-08	1.89E-06	9.22E-09
Cadmium	7440-43-9	5.51E-03	4.39E-05	1.59E-02	1.00E-04	1.23E-02	6.87E-05	1.36E-02	1.04E-04	1.23E-02	7.48E-05
Chrysene	218-01-9	1.58E-06	7.03E-09	1.68E-06	9.13E-09	1.70E-06	7.44E-09	2.00E-06	8.87E-09	1.55E-06	7.30E-09
Cobalt	7440-48-4	1.18E-02	9.06E-05	3.29E-02	2.05E-04	2.63E-02	1.41E-04	2.82E-02	2.13E-04	2.58E-02	1.54E-04
Dibenz(a,h)anthracene	53-70-3	9.06E-07	4.20E-09	9.42E-07	5.45E-09	9.36E-07	4.39E-09	1.06E-06	5.05E-09	8.61E-07	4.14E-09
Diesel Engine Exhaust	17136615	1.29E-04	8.33E-07	2.05E-04	2.59E-06	1.73E-04	1.63E-06	1.77E-04	1.26E-06	1.63E-04	1.10E-06
Indeno(1,2,3-cd) pyrene	193-39-5	9.45E-07	5.31E-09	9.75E-07	6.80E-09	9.29E-07	5.43E-09	1.12E-06	6.36E-09	8.44E-07	5.17E-09
Iron	7439-89-6	3.16E+00	1.62E-02	3.10E+00	2.02E-02	3.04E+00	1.59E-02	3.38E+00	1.79E-02	2.79E+00	1.44E-02
Lead	7439-92-1	5.19E-01	4.16E-03	1.52E+00	9.52E-03	1.18E+00	6.52E-03	1.30E+00	9.84E-03	1.17E+00	7.10E-03
Manganese	7439-96-5	1.09E+00	8.32E-03	2.79E+00	1.79E-02	2.18E+00	1.23E-02	2.46E+00	1.87E-02	2.18E+00	1.34E-02
Mercuric chloride	7487-94-7	2.23E-03	1.56E-05	6.97E-03	3.40E-05	5.84E-03	2.44E-05	6.02E-03	3.44E-05	5.59E-03	2.59E-05
Mercury	7439-97-6	9.96E-06	6.86E-08	3.13E-05	1.49E-07	2.64E-05	1.08E-07	2.71E-05	1.51E-07	2.52E-05	1.14E-07
Nickel	7440-02-0	1.01E-01	8.11E-04	3.03E-01	1.87E-03	2.35E-01	1.28E-03	2.58E-01	1.93E-03	2.33E-01	1.39E-03
PCB-1248	12672-29-6	5.34E-09	2.52E-11	5.83E-09	3.31E-11	5.71E-09	2.70E-11	6.65E-09	3.21E-11	5.42E-09	2.64E-11
Total TEQ	1746-01-6	4.40E-06	1.73E-08	4.11E-06	2.00E-08	4.17E-06	1.62E-08	4.50E-06	1.66E-08	3.93E-06	1.36E-08

Notes:

All air concentrations are presented in uni
CAS - Chemical abstract service
COPC - Contaminant of potential concern
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-t

APPENDIX F

IRAP-h Risk and Hazard Summary Tables

Table F-1-A
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Rowan Park
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard			Carcinogenic Risk	
Receptor Location		Rowan Park			Rowan Park	
Receptor Type						
COPC	CAS Number	Acute Receptor	Adult Resident	Child Resident	Adult Resident	Child Resident
Inhalation						
Arsenic	7440-38-2	1.5E-06	1.1E-03	1.1E-03	3.1E-08	6.2E-09
Benzo(a)anthracene	56-55-3	3.3E-09	0.0E+00	0.0E+00	3.8E-13	2.2E-13
Benzo(a)pyrene	50-32-8	4.6E-09	5.8E-06	5.8E-06	5.4E-12	3.2E-12
Benzo(b)fluoranthene	205-99-2	1.9E-09	0.0E+00	0.0E+00	4.5E-14	2.6E-14
Benzo(k)fluoranthene	207-08-9	0.0E+00	0.0E+00	0.0E+00	3.5E-14	2.1E-14
Cadmium	7440-43-9	4.5E-05	3.5E-03	3.5E-03	2.7E-08	5.4E-09
Chrysene	218-01-9	2.4E-09	0.0E+00	0.0E+00	2.7E-15	1.6E-15
Cobalt	7440-48-4	5.4E-05	1.2E-02	1.2E-02	2.8E-07	5.6E-08
Dibenz(a,h)anthracene	53-70-3	9.1E-09	0.0E+00	0.0E+00	1.6E-12	9.4E-13
Diesel Engine Exhaust	17136615	4.1E-10	1.3E-07	1.3E-07	8.3E-11	1.7E-11
Indeno(1,2,3-cd) pyrene	193-39-5	7.0E-10	0.0E+00	0.0E+00	2.0E-13	1.2E-13
Iron	7439-89-6	8.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	2.8E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	3.0E-04	1.3E-01	1.3E-01	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	2.4E-05	4.3E-05	4.3E-05	0.0E+00	0.0E+00
Mercury	7439-97-6	7.4E-08	1.9E-07	1.9E-07	0.0E+00	0.0E+00
Nickel	7440-02-0	1.9E-05	7.2E-03	7.2E-03	7.2E-08	1.4E-08
PCB-1248	12672-29-6	3.3E-12	0.0E+00	0.0E+00	5.1E-15	1.0E-15
Total TEQ	1746-01-6	3.2E-05	3.5E-04	3.5E-04	2.3E-07	4.6E-08
Total: Inhalation		0.004	0.2	0.2	6E-07	1E-07
Produce Ingestion						
Arsenic	7440-38-2	--	6.3E-05	1.5E-04	1.2E-08	5.8E-09
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	4.4E-13	6.2E-13
Benzo(a)pyrene	50-32-8	--	2.7E-08	6.4E-08	6.1E-12	8.7E-12
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	5.1E-14	7.2E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	4.2E-14	6.0E-14
Cadmium	7440-43-9	--	4.5E-04	1.1E-03	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	3.2E-15	4.5E-15
Cobalt	7440-48-4	--	4.7E-04	1.1E-03	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	1.9E-12	2.7E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	5.2E-13	7.4E-13
Iron	7439-89-6	--	3.3E-05	7.9E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	2.4E-04	5.7E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	2.0E-05	4.7E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	1.5E-05	3.5E-05	0.0E+00	0.0E+00
Nickel	7440-02-0	--	3.6E-05	8.7E-05	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	1.4E-14	6.7E-15
Total TEQ	1746-01-6	--	1.2E-02	2.8E-02	4.3E-07	2.1E-07
Total: Produce Ingestion		--	0.01	0.03	4E-07	2E-07

Table F-1-A
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Rowan Park
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard			Carcinogenic Risk	
Receptor Location		Rowan Park			Rowan Park	
Receptor Type						
COPC	CAS Number	Acute Receptor	Adult Resident	Child Resident	Adult Resident	Child Resident
Soil						
Arsenic	7440-38-2	--	8.4E-12	8.9E-11	1.6E-15	3.4E-15
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.5E-14	9.2E-14
Benzo(a)pyrene	50-32-8	--	7.7E-10	8.2E-09	1.7E-13	1.0E-12
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	1.6E-15	9.9E-15
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	3.4E-15	2.2E-14
Cadmium	7440-43-9	--	3.8E-09	4.0E-08	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.5E-16	9.2E-16
Cobalt	7440-48-4	--	3.5E-05	3.7E-04	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	8.7E-14	5.5E-13
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	1.9E-14	1.2E-13
Iron	7439-89-6	--	1.7E-06	1.8E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	8.9E-06	9.5E-05	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	2.1E-06	2.2E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	1.3E-07	1.4E-06	0.0E+00	0.0E+00
Nickel	7440-02-0	--	3.3E-10	3.5E-09	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	1.8E-15	3.8E-15
Total TEQ	1746-01-6	--	2.8E-03	2.9E-02	6.3E-08	1.3E-07
Total: Soil		**--**	0.003	0.03	6E-08	1E-07
Total: All Pathways		0.004	0.2	0.2	**1E-06**	5E-07

Notes:
Bolded Cancer Risks exceed the 1E-06 (1 in 1,000,000) risk threshhold but are within the 1E-04 (1 in 10,000) accepable risk range.
CAS - Chemical Abstract Service
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table F-1-B
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Day Care
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard			Carcinogenic Risk	
Receptor Location		Day Care			Day Care	
Receptor Type						
COPC	CAS Number	Acute Receptor	Adult Resident	Child Resident	Adult Resident	Child Resident
Inhalation						
Arsenic	7440-38-2	2.2E-06	8.4E-04	8.4E-04	2.3E-08	4.6E-09
Benzo(a)anthracene	56-55-3	2.6E-09	0.0E+00	0.0E+00	2.5E-13	1.5E-13
Benzo(a)pyrene	50-32-8	3.7E-09	3.9E-06	3.9E-06	3.7E-12	2.1E-12
Benzo(b)fluoranthene	205-99-2	1.5E-09	0.0E+00	0.0E+00	3.0E-14	1.7E-14
Benzo(k)fluoranthene	207-08-9	0.0E+00	0.0E+00	0.0E+00	2.3E-14	1.4E-14
Cadmium	7440-43-9	6.5E-05	2.6E-03	2.6E-03	2.0E-08	4.1E-09
Chrysene	218-01-9	1.9E-09	0.0E+00	0.0E+00	1.8E-15	1.1E-15
Cobalt	7440-48-4	7.5E-05	9.1E-03	9.1E-03	2.1E-07	4.2E-08
Dibenz(a,h)anthracene	53-70-3	6.9E-09	0.0E+00	0.0E+00	1.0E-12	6.1E-13
Diesel Engine Exhaust	17136615	3.3E-10	8.0E-08	8.0E-08	5.2E-11	1.0E-11
Indeno(1,2,3-cd) pyrene	193-39-5	5.0E-10	0.0E+00	0.0E+00	1.3E-13	7.4E-14
Iron	7439-89-6	6.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	4.2E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	3.9E-04	9.5E-02	9.5E-02	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	3.8E-05	3.4E-05	3.4E-05	0.0E+00	0.0E+00
Mercury	7439-97-6	1.1E-07	1.5E-07	1.5E-07	0.0E+00	0.0E+00
Nickel	7440-02-0	2.8E-05	5.4E-03	5.4E-03	5.4E-08	1.1E-08
PCB-1248	12672-29-6	2.6E-12	0.0E+00	0.0E+00	3.4E-15	6.9E-16
Total TEQ	1746-01-6	2.3E-05	2.0E-04	2.0E-04	1.3E-07	2.6E-08
Total: Inhalation		0.005	0.1	0.1	4E-07	9E-08
Produce Ingestion						
Arsenic	7440-38-2	--	3.5E-05	8.4E-05	6.7E-09	3.2E-09
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	2.7E-13	3.8E-13
Benzo(a)pyrene	50-32-8	--	1.7E-08	4.0E-08	3.8E-12	5.4E-12
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	3.1E-14	4.4E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	2.5E-14	3.6E-14
Cadmium	7440-43-9	--	2.5E-04	6.1E-04	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	2.0E-15	2.8E-15
Cobalt	7440-48-4	--	2.8E-04	6.8E-04	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	1.1E-12	1.6E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	3.1E-13	4.3E-13
Iron	7439-89-6	--	1.8E-05	4.4E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	1.4E-04	3.3E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	1.5E-05	3.5E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	1.1E-05	2.7E-05	0.0E+00	0.0E+00
Nickel	7440-02-0	--	2.0E-05	4.8E-05	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	8.4E-15	4.1E-15
Total TEQ	1746-01-6	--	5.4E-03	1.3E-02	2.0E-07	9.6E-08
Total: Produce Ingestion		--	0.006	0.01	2E-07	1E-07

Table F-1-B
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Day Care
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard			Carcinogenic Risk	
Receptor Location		Day Care			Day Care	
Receptor Type						
COPC	CAS Number	Acute Receptor	Adult Resident	Child Resident	Adult Resident	Child Resident
Soil						
Arsenic	7440-38-2	--	4.7E-12	5.0E-11	9.0E-16	1.9E-15
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	9.0E-15	5.7E-14
Benzo(a)pyrene	50-32-8	--	4.8E-10	5.1E-09	1.0E-13	6.5E-13
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	9.6E-16	6.0E-15
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	2.0E-15	1.3E-14
Cadmium	7440-43-9	--	2.2E-09	2.3E-08	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	9.1E-17	5.7E-16
Cobalt	7440-48-4	--	2.1E-05	2.2E-04	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	5.0E-14	3.1E-13
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	1.1E-14	7.0E-14
Iron	7439-89-6	--	9.6E-07	1.0E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	5.1E-06	5.4E-05	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	1.3E-06	1.4E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	7.7E-08	8.2E-07	0.0E+00	0.0E+00
Nickel	7440-02-0	--	1.8E-10	2.0E-09	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	1.1E-15	2.3E-15
Total TEQ	1746-01-6	--	1.3E-03	1.4E-02	2.9E-08	6.2E-08
Total: Soil		**--**	0.001	0.01	3E-08	6E-08
Total: All Pathways		0.005	0.1	0.1	7E-07	2E-07

Notes:
CAS - Chemical Abstract Service
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table F-1-C
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 01GRP04
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard			Carcinogenic Risk	
Receptor Location		05GRP01			05GRP01	
Receptor Type						
Inhalation	CAS Number	Acute Receptor	Adult Resident	Child Resident	Adult Resident	Child Resident
Arsenic	7440-38-2	2.6E-06	2.3E-03	2.3E-03	6.4E-08	1.3E-08
Benzo(a)anthracene	56-55-3	4.0E-09	0.0E+00	0.0E+00	5.9E-13	3.4E-13
Benzo(a)pyrene	50-32-8	5.7E-09	8.8E-06	8.8E-06	8.3E-12	4.8E-12
Benzo(b)fluoranthene	205-99-2	2.3E-09	0.0E+00	0.0E+00	6.9E-14	4.0E-14
Benzo(k)fluoranthene	207-08-9	0.0E+00	0.0E+00	0.0E+00	5.5E-14	3.2E-14
Cadmium	7440-43-9	7.9E-05	7.1E-03	7.1E-03	5.5E-08	1.1E-08
Chrysene	218-01-9	3.0E-09	0.0E+00	0.0E+00	4.2E-15	2.5E-15
Cobalt	7440-48-4	9.5E-05	2.4E-02	2.4E-02	5.7E-07	1.1E-07
Dibenz(a,h)anthracene	53-70-3	1.1E-08	0.0E+00	0.0E+00	2.6E-12	1.5E-12
Diesel Engine Exhaust	17136615	6.1E-10	3.3E-07	3.3E-07	2.1E-10	4.2E-11
Indeno(1,2,3-cd) pyrene	193-39-5	8.8E-10	0.0E+00	0.0E+00	3.3E-13	1.9E-13
Iron	7439-89-6	1.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	5.0E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	5.1E-04	2.6E-01	2.6E-01	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	4.5E-05	8.3E-05	8.3E-05	0.0E+00	0.0E+00
Mercury	7439-97-6	1.4E-07	3.6E-07	3.6E-07	0.0E+00	0.0E+00
Nickel	7440-02-0	3.2E-05	1.5E-02	1.5E-02	1.5E-07	3.0E-08
PCB-1248	12672-29-6	4.1E-12	0.0E+00	0.0E+00	8.0E-15	1.6E-15
Total TEQ	1746-01-6	3.9E-05	5.8E-04	5.8E-04	3.8E-07	7.5E-08
Total: Inhalation		0.007	0.3	0.3	**1E-06**	2E-07
Produce Ingestion						
Arsenic	7440-38-2	--	1.2E-04	3.0E-04	2.4E-08	1.1E-08
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	6.8E-13	9.7E-13
Benzo(a)pyrene	50-32-8	--	4.1E-08	9.9E-08	9.5E-12	1.3E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	7.8E-14	1.1E-13
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	6.6E-14	9.3E-14
Cadmium	7440-43-9	--	8.6E-04	2.1E-03	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	4.9E-15	7.0E-15
Cobalt	7440-48-4	--	9.1E-04	2.2E-03	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	3.1E-12	4.4E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	8.3E-13	1.2E-12
Iron	7439-89-6	--	5.6E-05	1.3E-04	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	4.6E-04	1.1E-03	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	3.8E-05	9.1E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	2.8E-05	6.7E-05	0.0E+00	0.0E+00
Nickel	7440-02-0	--	7.1E-05	1.7E-04	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	2.2E-14	1.1E-14
Total TEQ	1746-01-6	--	1.9E-02	4.6E-02	7.1E-07	3.4E-07
Total: Produce Ingestion		**--**	0.02	0.05	7E-07	4E-07

Table F-1-C
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 01GRP04
RMG Site, Chicago, Illinois

Soil						
Arsenic	7440-38-2	--	1.6E-11	1.8E-10	3.2E-15	6.8E-15
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	2.3E-14	1.4E-13
Benzo(a)pyrene	50-32-8	--	1.2E-09	1.3E-08	2.6E-13	1.6E-12
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	2.4E-15	1.5E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	5.3E-15	3.4E-14
Cadmium	7440-43-9	--	7.3E-09	7.8E-08	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	2.3E-16	1.4E-15
Cobalt	7440-48-4	--	6.7E-05	7.2E-04	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	1.4E-13	8.8E-13
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	3.0E-14	1.9E-13
Iron	7439-89-6	--	2.9E-06	3.1E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	1.7E-05	1.8E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	4.1E-06	4.4E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	2.5E-07	2.6E-06	0.0E+00	0.0E+00
Nickel	7440-02-0	--	6.5E-10	7.0E-09	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	2.8E-15	5.9E-15
Total TEQ	1746-01-6	--	4.5E-03	4.8E-02	1.0E-07	2.2E-07
Total: Soil		**--**	0.005	0.05	1E-07	2E-07
Total: All Residential Pathways		0.01	0.3	0.4	**2E-06**	8E-07
Fish Ingestion*						
Arsenic	7440-38-2	--	6.0E-07	4.2E-07	1.2E-10	1.6E-11
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.8E-12	7.4E-13
Benzo(a)pyrene	50-32-8	--	1.2E-07	8.3E-08	2.7E-11	1.1E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	2.6E-12	1.1E-12
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	2.8E-13	1.2E-13
Cadmium	7440-43-9	--	3.5E-05	2.5E-05	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.4E-14	6.0E-15
Cobalt	7440-48-4	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	8.2E-12	3.4E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	3.1E-12	1.3E-12
Iron	7439-89-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	8.3E-03	5.9E-03	0.0E+00	0.0E+00
Nickel	7440-02-0	--	2.3E-07	1.6E-07	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total TEQ	1746-01-6	--	9.9E-03	7.0E-03	2.6E-07	3.6E-08
Total: Fish Ingestion		--	0.02	0.01	3E-07	4E-08
Total: All Pathways		0.01	0.4	0.4	**2E-06**	9E-07

Table F-1-C
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 01GRP04
RMG Site, Chicago, Illinois

Notes:
Bolded Cancer Risks exceed the 1E-06 (1 in 1,000,000) risk threshhold but are within the 1E-04 (1 in 10,000) accepable risk range.
*Fish ingestion not evaluated for sensitive receptor locations
CAS - Chemical Abstract Service
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table F-1-D
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 01GRP05
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard			Carcinogenic Risk	
Receptor Location		01GRP05			01GRP05	
Receptor Type						
Inhalation	**CAS Number**	**Acute Receptor**	**Adult Resident**	**Child Resident**	**Adult Resident**	**Child Resident**
Arsenic	7440-38-2	2.2E-06	1.6E-03	1.6E-03	4.5E-08	9.0E-09
Benzo(a)anthracene	56-55-3	3.4E-09	0.0E+00	0.0E+00	4.7E-13	2.7E-13
Benzo(a)pyrene	50-32-8	4.9E-09	7.1E-06	7.1E-06	6.7E-12	3.9E-12
Benzo(b)fluoranthene	205-99-2	2.0E-09	0.0E+00	0.0E+00	5.5E-14	3.2E-14
Benzo(k)fluoranthene	207-08-9	0.0E+00	0.0E+00	0.0E+00	4.4E-14	2.6E-14
Cadmium	7440-43-9	6.7E-05	5.1E-03	5.1E-03	3.9E-08	7.8E-09
Chrysene	218-01-9	2.5E-09	0.0E+00	0.0E+00	3.4E-15	2.0E-15
Cobalt	7440-48-4	8.1E-05	1.7E-02	1.7E-02	4.0E-07	8.0E-08
Dibenz(a,h)anthracene	53-70-3	9.4E-09	0.0E+00	0.0E+00	2.0E-12	1.2E-12
Diesel Engine Exhaust	17136615	5.2E-10	2.4E-07	2.4E-07	1.5E-10	3.0E-11
Indeno(1,2,3-cd) pyrene	193-39-5	7.6E-10	0.0E+00	0.0E+00	2.5E-13	1.5E-13
Iron	7439-89-6	9.3E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	4.2E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	4.2E-04	1.9E-01	1.9E-01	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	3.9E-05	6.1E-05	6.1E-05	0.0E+00	0.0E+00
Mercury	7439-97-6	1.2E-07	2.7E-07	2.7E-07	0.0E+00	0.0E+00
Nickel	7440-02-0	2.8E-05	1.0E-02	1.0E-02	1.0E-07	2.1E-08
PCB-1248	12672-29-6	3.5E-12	0.0E+00	0.0E+00	6.4E-15	1.3E-15
Total TEQ	1746-01-6	3.0E-05	4.4E-04	4.4E-04	2.9E-07	5.8E-08
Total: Inhalation		0.006	0.2	0.2	9E-07	2E-07
Produce Ingestion						
Arsenic	7440-38-2	--	8.6E-05	2.1E-04	1.7E-08	8.0E-09
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	5.3E-13	7.6E-13
Benzo(a)pyrene	50-32-8	--	3.2E-08	7.8E-08	7.4E-12	1.1E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	6.1E-14	8.7E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	5.1E-14	7.3E-14
Cadmium	7440-43-9	--	6.1E-04	1.5E-03	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	3.8E-15	5.5E-15
Cobalt	7440-48-4	--	6.5E-04	1.6E-03	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	2.4E-12	3.3E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	6.4E-13	9.1E-13
Iron	7439-89-6	--	4.2E-05	1.0E-04	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	3.3E-04	7.8E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	2.8E-05	6.6E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	2.1E-05	4.9E-05	0.0E+00	0.0E+00
Nickel	7440-02-0	--	5.0E-05	1.2E-04	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	1.7E-14	8.2E-15
Total TEQ	1746-01-6	--	1.4E-02	3.4E-02	5.2E-07	2.5E-07
Total: Produce Ingestion		--	0.02	0.04	5E-07	3E-07

Table F-1-D
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 01GRP05
RMG Site, Chicago, Illinois

Soil						
Arsenic	7440-38-2	--	1.2E-11	1.2E-10	2.2E-15	4.7E-15
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.8E-14	1.1E-13
Benzo(a)pyrene	50-32-8	--	9.4E-10	1.0E-08	2.0E-13	1.3E-12
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	1.9E-15	1.2E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	4.2E-15	2.6E-14
Cadmium	7440-43-9	--	5.2E-09	5.5E-08	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.8E-16	1.1E-15
Cobalt	7440-48-4	--	4.8E-05	5.1E-04	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	1.1E-13	6.7E-13
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	2.3E-14	1.5E-13
Iron	7439-89-6	--	2.2E-06	2.3E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	1.2E-05	1.3E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	2.9E-06	3.1E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	1.7E-07	1.9E-06	0.0E+00	0.0E+00
Nickel	7440-02-0	--	4.6E-10	4.9E-09	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	2.2E-15	4.6E-15
Total TEQ	1746-01-6	--	3.3E-03	3.6E-02	7.6E-08	1.6E-07
Total: Soil		**--**	0.003	0.04	8E-08	2E-07
Total: All Residential Pathways		0.01	0.2	0.3	**1E-06**	6E-07
Fish Ingestion*						
Arsenic	7440-38-2	--	6.0E-07	4.2E-07	1.2E-10	1.6E-11
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.8E-12	7.4E-13
Benzo(a)pyrene	50-32-8	--	1.2E-07	8.3E-08	2.7E-11	1.1E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	2.6E-12	1.1E-12
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	2.8E-13	1.2E-13
Cadmium	7440-43-9	--	3.5E-05	2.5E-05	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.4E-14	6.0E-15
Cobalt	7440-48-4	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	8.2E-12	3.4E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	3.1E-12	1.3E-12
Iron	7439-89-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	8.3E-03	5.9E-03	0.0E+00	0.0E+00
Nickel	7440-02-0	--	2.3E-07	1.6E-07	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total TEQ	1746-01-6	--	9.9E-03	7.0E-03	2.6E-07	3.6E-08
Total: Fish Ingestion		--	0.02	0.01	3E-07	4E-08
Total: All Pathways		0.01	0.3	0.3	**2E-06**	6E-07

Table F-1-D
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 01GRP05
RMG Site, Chicago, Illinois

Notes:
Bolded Cancer Risks exceed the 1E-06 (1 in 1,000,000) risk threshhold but are within the 1E-04 (1 in 10,000) accepable risk range.
*Fish ingestion not evaluated for sensitive receptor locations
CAS - Chemical Abstract Service
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table F-1-E
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 02GRP04
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard			Carcinogenic Risk	
Receptor Location		02GRP04			02GRP04	
Receptor Type						
Inhalation	**CAS Number**	**Acute Receptor**	**Adult Resident**	**Child Resident**	**Adult Resident**	**Child Resident**
Arsenic	7440-38-2	2.4E-06	1.9E-03	1.9E-03	5.3E-08	1.1E-08
Benzo(a)anthracene	56-55-3	3.8E-09	0.0E+00	0.0E+00	5.6E-13	3.2E-13
Benzo(a)pyrene	50-32-8	5.4E-09	8.4E-06	8.4E-06	7.9E-12	4.6E-12
Benzo(b)fluoranthene	205-99-2	2.2E-09	0.0E+00	0.0E+00	6.6E-14	3.9E-14
Benzo(k)fluoranthene	207-08-9	0.0E+00	0.0E+00	0.0E+00	5.3E-14	3.1E-14
Cadmium	7440-43-9	7.3E-05	5.9E-03	5.9E-03	4.5E-08	9.0E-09
Chrysene	218-01-9	2.8E-09	0.0E+00	0.0E+00	4.0E-15	2.3E-15
Cobalt	7440-48-4	8.8E-05	2.0E-02	2.0E-02	4.7E-07	9.3E-08
Dibenz(a,h)anthracene	53-70-3	1.1E-08	0.0E+00	0.0E+00	2.5E-12	1.4E-12
Diesel Engine Exhaust	17136615	4.8E-10	2.0E-07	2.0E-07	1.3E-10	2.5E-11
Indeno(1,2,3-cd) pyrene	193-39-5	8.8E-10	0.0E+00	0.0E+00	3.1E-13	1.8E-13
Iron	7439-89-6	1.2E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	4.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	4.7E-04	2.2E-01	2.2E-01	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	2.7E-05	6.7E-05	6.7E-05	0.0E+00	0.0E+00
Mercury	7439-97-6	8.1E-08	2.9E-07	2.9E-07	0.0E+00	0.0E+00
Nickel	7440-02-0	3.0E-05	1.2E-02	1.2E-02	1.2E-07	2.4E-08
PCB-1248	12672-29-6	3.8E-12	0.0E+00	0.0E+00	7.5E-15	1.5E-15
Total TEQ	1746-01-6	3.7E-05	5.6E-04	5.6E-04	3.7E-07	7.3E-08
Total: Inhalation		0.006	0.3	0.3	**1E-06**	2E-07
Produce Ingestion						
Arsenic	7440-38-2	--	1.1E-04	2.6E-04	2.1E-08	1.0E-08
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	7.0E-13	9.9E-13
Benzo(a)pyrene	50-32-8	--	4.2E-08	1.0E-07	9.6E-12	1.4E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	8.1E-14	1.1E-13
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	6.8E-14	9.6E-14
Cadmium	7440-43-9	--	7.7E-04	1.8E-03	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	5.0E-15	7.1E-15
Cobalt	7440-48-4	--	7.8E-04	1.9E-03	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	3.2E-12	4.5E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	8.6E-13	1.2E-12
Iron	7439-89-6	--	5.6E-05	1.4E-04	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	4.1E-04	9.7E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	3.2E-05	7.5E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	2.3E-05	5.5E-05	0.0E+00	0.0E+00
Nickel	7440-02-0	--	6.3E-05	1.5E-04	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	2.2E-14	1.1E-14
Total TEQ	1746-01-6	--	2.1E-02	5.1E-02	8.0E-07	3.8E-07
Total: Produce Ingestion		**--**	0.02	0.06	8E-07	4E-07

Table F-1-E
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 02GRP04
RMG Site, Chicago, Illinois

Soil						
Arsenic	7440-38-2	--	1.5E-11	1.6E-10	2.8E-15	6.0E-15
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	2.3E-14	1.5E-13
Benzo(a)pyrene	50-32-8	--	1.2E-09	1.3E-08	2.6E-13	1.6E-12
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	2.5E-15	1.6E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	5.5E-15	3.5E-14
Cadmium	7440-43-9	--	6.5E-09	6.9E-08	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	2.3E-16	1.5E-15
Cobalt	7440-48-4	--	5.8E-05	6.2E-04	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	1.4E-13	9.1E-13
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	3.1E-14	2.0E-13
Iron	7439-89-6	--	2.9E-06	3.1E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	1.5E-05	1.6E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	3.6E-06	3.9E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	2.2E-07	2.3E-06	0.0E+00	0.0E+00
Nickel	7440-02-0	--	5.8E-10	6.2E-09	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	2.8E-15	6.0E-15
Total TEQ	1746-01-6	--	5.1E-03	5.4E-02	1.2E-07	2.5E-07
Total: Soil		**--**	0.005	0.06	1E-07	2E-07
Total: All Residential Pathways		0.01	0.3	0.4	**2E-06**	8E-07
Fish Ingestion*						
Arsenic	7440-38-2	--	6.0E-07	4.2E-07	1.2E-10	1.6E-11
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.8E-12	7.4E-13
Benzo(a)pyrene	50-32-8	--	1.2E-07	8.3E-08	2.7E-11	1.1E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	2.6E-12	1.1E-12
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	2.8E-13	1.2E-13
Cadmium	7440-43-9	--	3.5E-05	2.5E-05	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.4E-14	6.0E-15
Cobalt	7440-48-4	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	8.2E-12	3.4E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	3.1E-12	1.3E-12
Iron	7439-89-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	8.3E-03	5.9E-03	0.0E+00	0.0E+00
Nickel	7440-02-0	--	2.3E-07	1.6E-07	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total TEQ	1746-01-6	--	9.9E-03	7.0E-03	2.6E-07	3.6E-08
Total: Fish Ingestion		--	0.02	0.01	3E-07	4E-08
Total: All Pathways		0.01	0.3	0.4	**2E-06**	9E-07

Table F-1-E
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 02GRP04
RMG Site, Chicago, Illinois

Notes:
Bolded Cancer Risks exceed the 1E-06 (1 in 1,000,000) risk threshhold but are within the 1E-04 (1 in 10,000) accepable risk range.
*Fish ingestion not evaluated for sensitive receptor locations
CAS - Chemical Abstract Service
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table F-1-F
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 02GRP05
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard			Carcinogenic Risk	
Receptor Location		02GRP05			02GRP05	
Receptor Type						
Inhalation	**CAS Number**	**Acute Receptor**	**Adult Resident**	**Child Resident**	**Adult Resident**	**Child Resident**
Arsenic	7440-38-2	1.8E-06	1.4E-03	1.4E-03	3.8E-08	7.5E-09
Benzo(a)anthracene	56-55-3	3.5E-09	0.0E+00	0.0E+00	4.4E-13	2.6E-13
Benzo(a)pyrene	50-32-8	5.1E-09	6.7E-06	6.7E-06	6.3E-12	3.7E-12
Benzo(b)fluoranthene	205-99-2	2.1E-09	0.0E+00	0.0E+00	5.2E-14	3.0E-14
Benzo(k)fluoranthene	207-08-9	0.0E+00	0.0E+00	0.0E+00	4.1E-14	2.4E-14
Cadmium	7440-43-9	5.5E-05	4.2E-03	4.2E-03	3.2E-08	6.5E-09
Chrysene	218-01-9	2.6E-09	0.0E+00	0.0E+00	3.2E-15	1.8E-15
Cobalt	7440-48-4	6.6E-05	1.4E-02	1.4E-02	3.4E-07	6.7E-08
Dibenz(a,h)anthracene	53-70-3	9.7E-09	0.0E+00	0.0E+00	1.9E-12	1.1E-12
Diesel Engine Exhaust	17136615	4.3E-10	1.6E-07	1.6E-07	1.0E-10	2.1E-11
Indeno(1,2,3-cd) pyrene	193-39-5	7.9E-10	0.0E+00	0.0E+00	2.4E-13	1.4E-13
Iron	7439-89-6	9.9E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	3.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	3.6E-04	1.6E-01	1.6E-01	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	2.2E-05	5.0E-05	5.0E-05	0.0E+00	0.0E+00
Mercury	7439-97-6	6.6E-08	2.2E-07	2.2E-07	0.0E+00	0.0E+00
Nickel	7440-02-0	2.3E-05	8.6E-03	8.6E-03	8.7E-08	1.7E-08
PCB-1248	12672-29-6	3.6E-12	0.0E+00	0.0E+00	5.9E-15	1.2E-15
Total TEQ	1746-01-6	3.4E-05	4.1E-04	4.1E-04	2.7E-07	5.4E-08
Total: Inhalation		0.005	0.2	0.2	8E-07	2E-07
Produce Ingestion						
Arsenic	7440-38-2	--	7.8E-05	1.9E-04	1.5E-08	7.3E-09
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	5.3E-13	7.6E-13
Benzo(a)pyrene	50-32-8	--	3.2E-08	7.8E-08	7.4E-12	1.1E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	6.2E-14	8.8E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	5.2E-14	7.3E-14
Cadmium	7440-43-9	--	5.5E-04	1.3E-03	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	3.8E-15	5.4E-15
Cobalt	7440-48-4	--	5.7E-04	1.4E-03	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	2.4E-12	3.4E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	6.5E-13	9.2E-13
Iron	7439-89-6	--	4.1E-05	9.9E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	3.0E-04	7.1E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	2.3E-05	5.6E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	1.7E-05	4.1E-05	0.0E+00	0.0E+00
Nickel	7440-02-0	--	4.5E-05	1.1E-04	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	1.7E-14	8.2E-15
Total TEQ	1746-01-6	--	1.5E-02	3.6E-02	5.7E-07	2.7E-07
Total: Produce Ingestion		--	0.02	0.04	6E-07	3E-07

Table F-1-F
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 02GRP05
RMG Site, Chicago, Illinois

Soil						
Arsenic	7440-38-2	--	1.0E-11	1.1E-10	2.0E-15	4.3E-15
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.8E-14	1.1E-13
Benzo(a)pyrene	50-32-8	--	9.4E-10	1.0E-08	2.0E-13	1.3E-12
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	1.9E-15	1.2E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	4.2E-15	2.6E-14
Cadmium	7440-43-9	--	4.7E-09	5.0E-08	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.8E-16	1.1E-15
Cobalt	7440-48-4	--	4.3E-05	4.5E-04	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	1.1E-13	6.8E-13
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	2.4E-14	1.5E-13
Iron	7439-89-6	--	2.1E-06	2.3E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	1.1E-05	1.2E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	2.6E-06	2.8E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	1.6E-07	1.7E-06	0.0E+00	0.0E+00
Nickel	7440-02-0	--	4.1E-10	4.4E-09	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	2.2E-15	4.6E-15
Total TEQ	1746-01-6	--	3.6E-03	3.8E-02	8.2E-08	1.8E-07
Total: Soil		**--**	0.004	0.04	8E-08	2E-07
Total: All Residential Pathways		0.01	0.2	0.3	**1E-06**	6E-07
Fish Ingestion*						
Arsenic	7440-38-2	--	6.0E-07	4.2E-07	1.2E-10	1.6E-11
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.8E-12	7.4E-13
Benzo(a)pyrene	50-32-8	--	1.2E-07	8.3E-08	2.7E-11	1.1E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	2.6E-12	1.1E-12
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	2.8E-13	1.2E-13
Cadmium	7440-43-9	--	3.5E-05	2.5E-05	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.4E-14	6.0E-15
Cobalt	7440-48-4	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	8.2E-12	3.4E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	3.1E-12	1.3E-12
Iron	7439-89-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	8.3E-03	5.9E-03	0.0E+00	0.0E+00
Nickel	7440-02-0	--	2.3E-07	1.6E-07	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total TEQ	1746-01-6	--	9.9E-03	7.0E-03	2.6E-07	3.6E-08
Total: Fish Ingestion		--	0.02	0.01	3E-07	4E-08
Total: All Pathways		0.01	0.2	0.3	**2E-06**	6E-07

Table F-1-F
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 02GRP05
RMG Site, Chicago, Illinois

Notes:
Bolded Cancer Risks exceed the 1E-06 (1 in 1,000,000) risk threshhold but are within the 1E-04 (1 in 10,000) accepable risk range.
*Fish ingestion not evaluated for sensitive receptor locations
CAS - Chemical Abstract Service
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table F-1-G
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 03GRP04
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard			Carcinogenic Risk	
Receptor Location		03GRP04			03GRP04	
Receptor Type						
Inhalation	**CAS Number**	**Acute Receptor**	**Adult Resident**	**Child Resident**	**Adult Resident**	**Child Resident**
Arsenic	7440-38-2	5.3E-06	3.1E-03	3.1E-03	8.5E-08	1.7E-08
Benzo(a)anthracene	56-55-3	3.8E-09	0.0E+00	0.0E+00	5.7E-13	3.3E-13
Benzo(a)pyrene	50-32-8	5.4E-09	8.7E-06	8.7E-06	8.2E-12	4.8E-12
Benzo(b)fluoranthene	205-99-2	2.2E-09	0.0E+00	0.0E+00	6.7E-14	3.9E-14
Benzo(k)fluoranthene	207-08-9	0.0E+00	0.0E+00	0.0E+00	5.3E-14	3.1E-14
Cadmium	7440-43-9	1.6E-04	9.6E-03	9.6E-03	7.4E-08	1.5E-08
Chrysene	218-01-9	2.8E-09	0.0E+00	0.0E+00	4.1E-15	2.4E-15
Cobalt	7440-48-4	1.8E-04	3.3E-02	3.3E-02	7.6E-07	1.5E-07
Dibenz(a,h)anthracene	53-70-3	1.0E-08	0.0E+00	0.0E+00	2.5E-12	1.4E-12
Diesel Engine Exhaust	17136615	6.8E-10	5.0E-07	5.0E-07	3.2E-10	6.4E-11
Indeno(1,2,3-cd) pyrene	193-39-5	8.1E-10	0.0E+00	0.0E+00	3.1E-13	1.8E-13
Iron	7439-89-6	9.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	1.0E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	9.3E-04	3.4E-01	3.4E-01	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	7.0E-05	1.1E-04	1.1E-04	0.0E+00	0.0E+00
Mercury	7439-97-6	2.1E-07	4.8E-07	4.8E-07	0.0E+00	0.0E+00
Nickel	7440-02-0	6.7E-05	2.0E-02	2.0E-02	2.0E-07	4.0E-08
PCB-1248	12672-29-6	3.9E-12	0.0E+00	0.0E+00	7.8E-15	1.6E-15
Total TEQ	1746-01-6	3.2E-05	4.8E-04	4.8E-04	3.1E-07	6.3E-08
Total: Inhalation		0.01	0.4	0.4	**1E-06**	3E-07
Produce Ingestion						
Arsenic	7440-38-2	--	1.3E-04	3.1E-04	2.5E-08	1.2E-08
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	6.4E-13	9.1E-13
Benzo(a)pyrene	50-32-8	--	3.9E-08	9.4E-08	9.0E-12	1.3E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	7.3E-14	1.0E-13
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	6.1E-14	8.6E-14
Cadmium	7440-43-9	--	9.0E-04	2.2E-03	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	4.6E-15	6.6E-15
Cobalt	7440-48-4	--	9.8E-04	2.4E-03	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	2.8E-12	3.9E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	7.6E-13	1.1E-12
Iron	7439-89-6	--	5.3E-05	1.3E-04	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	4.9E-04	1.2E-03	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	4.8E-05	1.1E-04	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	3.6E-05	8.5E-05	0.0E+00	0.0E+00
Nickel	7440-02-0	--	7.4E-05	1.8E-04	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	2.0E-14	9.8E-15
Total TEQ	1746-01-6	--	1.5E-02	3.6E-02	5.5E-07	2.6E-07
Total: Produce Ingestion		--	0.02	0.04	6E-07	3E-07

Table F-1-G
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 03GRP04
RMG Site, Chicago, Illinois

Soil						
Arsenic	7440-38-2	--	1.7E-11	1.8E-10	3.3E-15	7.0E-15
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	2.1E-14	1.3E-13
Benzo(a)pyrene	50-32-8	--	1.1E-09	1.2E-08	2.4E-13	1.5E-12
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	2.3E-15	1.4E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	4.9E-15	3.1E-14
Cadmium	7440-43-9	--	7.6E-09	8.1E-08	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	2.1E-16	1.3E-15
Cobalt	7440-48-4	--	7.3E-05	7.8E-04	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	1.3E-13	7.9E-13
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	2.8E-14	1.7E-13
Iron	7439-89-6	--	2.8E-06	2.9E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	1.8E-05	1.9E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	4.5E-06	4.8E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	2.7E-07	2.9E-06	0.0E+00	0.0E+00
Nickel	7440-02-0	--	6.8E-10	7.2E-09	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	2.6E-15	5.5E-15
Total TEQ	1746-01-6	--	3.5E-03	3.8E-02	8.1E-08	1.7E-07
Total: Soil		**--**	0.004	0.04	8E-08	2E-07
Total: All Residential Pathways		0.01	0.4	0.5	**2E-06**	7E-07
Fish Ingestion*						
Arsenic	7440-38-2	--	6.0E-07	4.2E-07	1.2E-10	1.6E-11
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.8E-12	7.4E-13
Benzo(a)pyrene	50-32-8	--	1.2E-07	8.3E-08	2.7E-11	1.1E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	2.6E-12	1.1E-12
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	2.8E-13	1.2E-13
Cadmium	7440-43-9	--	3.5E-05	2.5E-05	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.4E-14	6.0E-15
Cobalt	7440-48-4	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	8.2E-12	3.4E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	3.1E-12	1.3E-12
Iron	7439-89-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	8.3E-03	5.9E-03	0.0E+00	0.0E+00
Nickel	7440-02-0	--	2.3E-07	1.6E-07	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total TEQ	1746-01-6	--	9.9E-03	7.0E-03	2.6E-07	3.6E-08
Total: Fish Ingestion		--	0.02	0.01	3E-07	4E-08
Total: All Pathways		0.01	0.4	0.5	**2E-06**	8E-07

Table F-1-G
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 03GRP04
RMG Site, Chicago, Illinois

Notes:
Bolded Cancer Risks exceed the 1E-06 (1 in 1,000,000) risk threshhold but are within the 1E-04 (1 in 10,000) accepable risk range.
*Fish ingestion not evaluated for sensitive receptor locations
CAS - Chemical Abstract Service
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table F-1-H
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 03GRP05
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard			Carcinogenic Risk	
Receptor Location		03GRP05			03GRP05	
Receptor Type						
Inhalation	**CAS Number**	**Acute Receptor**	**Adult Resident**	**Child Resident**	**Adult Resident**	**Child Resident**
Arsenic	7440-38-2	4.1E-06	2.1E-03	2.1E-03	5.8E-08	1.2E-08
Benzo(a)anthracene	56-55-3	3.8E-09	0.0E+00	0.0E+00	4.6E-13	2.7E-13
Benzo(a)pyrene	50-32-8	5.4E-09	7.1E-06	7.1E-06	6.7E-12	3.9E-12
Benzo(b)fluoranthene	205-99-2	2.1E-09	0.0E+00	0.0E+00	5.4E-14	3.2E-14
Benzo(k)fluoranthene	207-08-9	0.0E+00	0.0E+00	0.0E+00	4.3E-14	2.5E-14
Cadmium	7440-43-9	1.2E-04	6.6E-03	6.6E-03	5.1E-08	1.0E-08
Chrysene	218-01-9	2.8E-09	0.0E+00	0.0E+00	3.4E-15	2.0E-15
Cobalt	7440-48-4	1.5E-04	2.3E-02	2.3E-02	5.2E-07	1.0E-07
Dibenz(a,h)anthracene	53-70-3	1.0E-08	0.0E+00	0.0E+00	2.0E-12	1.2E-12
Diesel Engine Exhaust	17136615	5.8E-10	3.1E-07	3.1E-07	2.0E-10	4.0E-11
Indeno(1,2,3-cd) pyrene	193-39-5	7.7E-10	0.0E+00	0.0E+00	2.5E-13	1.4E-13
Iron	7439-89-6	9.5E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	7.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	7.3E-04	2.4E-01	2.4E-01	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	5.8E-05	7.8E-05	7.8E-05	0.0E+00	0.0E+00
Mercury	7439-97-6	1.8E-07	3.4E-07	3.4E-07	0.0E+00	0.0E+00
Nickel	7440-02-0	5.2E-05	1.4E-02	1.4E-02	1.4E-07	2.7E-08
PCB-1248	12672-29-6	3.8E-12	0.0E+00	0.0E+00	6.3E-15	1.3E-15
Total TEQ	1746-01-6	3.2E-05	3.9E-04	3.9E-04	2.5E-07	5.0E-08
Total: Inhalation		0.01	0.3	0.3	**1E-06**	2E-07
Produce Ingestion						
Arsenic	7440-38-2	--	9.0E-05	2.2E-04	1.7E-08	8.3E-09
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	5.1E-13	7.2E-13
Benzo(a)pyrene	50-32-8	--	3.1E-08	7.5E-08	7.2E-12	1.0E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	5.9E-14	8.3E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	4.9E-14	6.9E-14
Cadmium	7440-43-9	--	6.3E-04	1.5E-03	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	3.7E-15	5.3E-15
Cobalt	7440-48-4	--	7.1E-04	1.7E-03	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	2.2E-12	3.1E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	6.0E-13	8.5E-13
Iron	7439-89-6	--	4.1E-05	9.8E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	3.5E-04	8.3E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	3.4E-05	8.1E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	2.6E-05	6.1E-05	0.0E+00	0.0E+00
Nickel	7440-02-0	--	5.2E-05	1.2E-04	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	1.6E-14	7.8E-15
Total TEQ	1746-01-6	--	1.2E-02	2.8E-02	4.3E-07	2.1E-07
Total: Produce Ingestion		--	0.01	0.03	4E-07	2E-07

Table F-1-H
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 03GRP05
RMG Site, Chicago, Illinois

Soil						
Arsenic	7440-38-2	--	1.2E-11	1.3E-10	2.3E-15	4.9E-15
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.7E-14	1.1E-13
Benzo(a)pyrene	50-32-8	--	9.1E-10	9.7E-09	2.0E-13	1.2E-12
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	1.8E-15	1.1E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	3.9E-15	2.5E-14
Cadmium	7440-43-9	--	5.4E-09	5.7E-08	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.7E-16	1.1E-15
Cobalt	7440-48-4	--	5.2E-05	5.6E-04	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	1.0E-13	6.3E-13
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	2.2E-14	1.4E-13
Iron	7439-89-6	--	2.1E-06	2.3E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	1.3E-05	1.4E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	3.2E-06	3.4E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	1.9E-07	2.0E-06	0.0E+00	0.0E+00
Nickel	7440-02-0	--	4.7E-10	5.1E-09	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	2.1E-15	4.4E-15
Total TEQ	1746-01-6	--	2.7E-03	2.9E-02	6.3E-08	1.3E-07
Total: Soil		**--**	0.003	0.03	6E-08	1E-07
Total: All Residential Pathways		0.01	0.3	0.3	**2E-06**	6E-07
Fish Ingestion*						
Arsenic	7440-38-2	--	6.0E-07	4.2E-07	1.2E-10	1.6E-11
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.8E-12	7.4E-13
Benzo(a)pyrene	50-32-8	--	1.2E-07	8.3E-08	2.7E-11	1.1E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	2.6E-12	1.1E-12
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	2.8E-13	1.2E-13
Cadmium	7440-43-9	--	3.5E-05	2.5E-05	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.4E-14	6.0E-15
Cobalt	7440-48-4	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	8.2E-12	3.4E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	3.1E-12	1.3E-12
Iron	7439-89-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	8.3E-03	5.9E-03	0.0E+00	0.0E+00
Nickel	7440-02-0	--	2.3E-07	1.6E-07	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total TEQ	1746-01-6	--	9.9E-03	7.0E-03	2.6E-07	3.6E-08
Total: Fish Ingestion		--	0.02	0.01	3E-07	4E-08
Total: All Pathways		0.01	0.3	0.4	**2E-06**	6E-07

Table F-1-H
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 03GRP05
RMG Site, Chicago, Illinois

Notes:
Bolded Cancer Risks exceed the 1E-06 (1 in 1,000,000) risk threshhold but are within the 1E-04 (1 in 10,000) accepable risk range.
*Fish ingestion not evaluated for sensitive receptor locations
CAS - Chemical Abstract Service
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table F-1-I
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 05GRP04
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard			Carcinogenic Risk	
Receptor Location		05GRP04			05GRP04	
Receptor Type						
Inhalation	**CAS Number**	**Acute Receptor**	**Adult Resident**	**Child Resident**	**Adult Resident**	**Child Resident**
Arsenic	7440-38-2	4.5E-06	3.2E-03	3.2E-03	8.8E-08	1.8E-08
Benzo(a)anthracene	56-55-3	4.4E-09	0.0E+00	0.0E+00	5.5E-13	3.2E-13
Benzo(a)pyrene	50-32-8	6.3E-09	8.5E-06	8.5E-06	8.0E-12	4.6E-12
Benzo(b)fluoranthene	205-99-2	2.5E-09	0.0E+00	0.0E+00	6.4E-14	3.7E-14
Benzo(k)fluoranthene	207-08-9	0.0E+00	0.0E+00	0.0E+00	5.1E-14	2.9E-14
Cadmium	7440-43-9	1.4E-04	9.9E-03	9.9E-03	7.7E-08	1.5E-08
Chrysene	218-01-9	3.3E-09	0.0E+00	0.0E+00	4.0E-15	2.3E-15
Cobalt	7440-48-4	1.6E-04	3.4E-02	3.4E-02	7.9E-07	1.6E-07
Dibenz(a,h)anthracene	53-70-3	1.1E-08	0.0E+00	0.0E+00	2.3E-12	1.3E-12
Diesel Engine Exhaust	17136615	5.9E-10	2.4E-07	2.4E-07	1.6E-10	3.1E-11
Indeno(1,2,3-cd) pyrene	193-39-5	9.3E-10	0.0E+00	0.0E+00	2.9E-13	1.7E-13
Iron	7439-89-6	1.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	8.7E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	8.2E-04	3.6E-01	3.6E-01	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	6.0E-05	1.1E-04	1.1E-04	0.0E+00	0.0E+00
Mercury	7439-97-6	1.8E-07	4.8E-07	4.8E-07	0.0E+00	0.0E+00
Nickel	7440-02-0	5.7E-05	2.1E-02	2.1E-02	2.1E-07	4.1E-08
PCB-1248	12672-29-6	4.4E-12	0.0E+00	0.0E+00	7.5E-15	1.5E-15
Total TEQ	1746-01-6	3.5E-05	4.0E-04	4.0E-04	2.6E-07	5.2E-08
Total: Inhalation		0.01	0.4	0.4	**1E-06**	3E-07
Produce Ingestion						
Arsenic	7440-38-2	--	1.2E-04	2.8E-04	2.2E-08	1.1E-08
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	6.0E-13	8.5E-13
Benzo(a)pyrene	50-32-8	--	3.7E-08	8.9E-08	8.5E-12	1.2E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	6.8E-14	9.7E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	5.6E-14	8.0E-14
Cadmium	7440-43-9	--	8.0E-04	1.9E-03	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	4.4E-15	6.2E-15
Cobalt	7440-48-4	--	9.7E-04	2.3E-03	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	2.5E-12	3.5E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	7.0E-13	9.9E-13
Iron	7439-89-6	--	5.2E-05	1.3E-04	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	4.7E-04	1.1E-03	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	4.7E-05	1.1E-04	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	3.5E-05	8.5E-05	0.0E+00	0.0E+00
Nickel	7440-02-0	--	6.5E-05	1.6E-04	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	1.9E-14	9.2E-15
Total TEQ	1746-01-6	--	1.2E-02	2.8E-02	4.4E-07	2.1E-07
Total: Produce Ingestion		**--**	0.01	0.03	5E-07	2E-07

Table F-1-I
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 05GRP04
RMG Site, Chicago, Illinois

Soil						
Arsenic	7440-38-2	--	1.5E-11	1.6E-10	3.0E-15	6.3E-15
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	2.0E-14	1.3E-13
Benzo(a)pyrene	50-32-8	--	1.1E-09	1.1E-08	2.3E-13	1.4E-12
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	2.1E-15	1.3E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	4.6E-15	2.9E-14
Cadmium	7440-43-9	--	6.8E-09	7.3E-08	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	2.0E-16	1.3E-15
Cobalt	7440-48-4	--	7.2E-05	7.6E-04	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	1.1E-13	7.1E-13
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	2.5E-14	1.6E-13
Iron	7439-89-6	--	2.7E-06	2.9E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	1.7E-05	1.9E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	4.1E-06	4.4E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	2.5E-07	2.7E-06	0.0E+00	0.0E+00
Nickel	7440-02-0	--	6.0E-10	6.4E-09	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	2.4E-15	5.1E-15
Total TEQ	1746-01-6	--	2.8E-03	3.0E-02	6.4E-08	1.4E-07
Total: Soil		**--**	0.003	0.03	6E-08	1E-07
Total: All Residential Pathways		0.01	0.4	0.5	**2E-06**	6E-07
Fish Ingestion*						
Arsenic	7440-38-2	--	6.0E-07	4.2E-07	1.2E-10	1.6E-11
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.8E-12	7.4E-13
Benzo(a)pyrene	50-32-8	--	1.2E-07	8.3E-08	2.7E-11	1.1E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	2.6E-12	1.1E-12
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	2.8E-13	1.2E-13
Cadmium	7440-43-9	--	3.5E-05	2.5E-05	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.4E-14	6.0E-15
Cobalt	7440-48-4	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	8.2E-12	3.4E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	3.1E-12	1.3E-12
Iron	7439-89-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	8.3E-03	5.9E-03	0.0E+00	0.0E+00
Nickel	7440-02-0	--	2.3E-07	1.6E-07	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total TEQ	1746-01-6	--	9.9E-03	7.0E-03	2.6E-07	3.6E-08
Total: Fish Ingestion		--	0.02	0.01	3E-07	4E-08
Total: All Pathways		0.01	0.5	0.5	**2E-06**	7E-07

Table F-1-I
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 05GRP04
RMG Site, Chicago, Illinois

Notes:
Bolded Cancer Risks exceed the 1E-06 (1 in 1,000,000) risk threshhold but are within the 1E-04 (1 in 10,000) accepable risk range.
*Fish ingestion not evaluated for sensitive receptor locations
CAS - Chemical Abstract Service
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table F-1-J
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 05GRP05
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard			Carcinogenic Risk	
Receptor Location		**05GRP05**			**05GRP05**	
Receptor Type						
Inhalation	**CAS Number**	**Acute Receptor**	**Adult Resident**	**Child Resident**	**Adult Resident**	**Child Resident**
Arsenic	7440-38-2	4.1E-06	2.3E-03	2.3E-03	6.3E-08	1.3E-08
Benzo(a)anthracene	56-55-3	3.5E-09	0.0E+00	0.0E+00	4.5E-13	2.6E-13
Benzo(a)pyrene	50-32-8	5.0E-09	7.0E-06	7.0E-06	6.6E-12	3.8E-12
Benzo(b)fluoranthene	205-99-2	2.0E-09	0.0E+00	0.0E+00	5.3E-14	3.1E-14
Benzo(k)fluoranthene	207-08-9	0.0E+00	0.0E+00	0.0E+00	4.2E-14	2.4E-14
Cadmium	7440-43-9	1.2E-04	7.2E-03	7.2E-03	5.5E-08	1.1E-08
Chrysene	218-01-9	2.6E-09	0.0E+00	0.0E+00	3.3E-15	1.9E-15
Cobalt	7440-48-4	1.4E-04	2.5E-02	2.5E-02	5.7E-07	1.1E-07
Dibenz(a,h)anthracene	53-70-3	9.3E-09	0.0E+00	0.0E+00	1.9E-12	1.1E-12
Diesel Engine Exhaust	17136615	5.4E-10	2.1E-07	2.1E-07	1.4E-10	2.7E-11
Indeno(1,2,3-cd) pyrene	193-39-5	7.0E-10	0.0E+00	0.0E+00	2.3E-13	1.4E-13
Iron	7439-89-6	8.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	7.8E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	7.3E-04	2.6E-01	2.6E-01	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	5.6E-05	8.3E-05	8.3E-05	0.0E+00	0.0E+00
Mercury	7439-97-6	1.7E-07	3.6E-07	3.6E-07	0.0E+00	0.0E+00
Nickel	7440-02-0	5.2E-05	1.5E-02	1.5E-02	1.5E-07	3.0E-08
PCB-1248	12672-29-6	3.6E-12	0.0E+00	0.0E+00	6.2E-15	1.2E-15
Total TEQ	1746-01-6	3.0E-05	3.3E-04	3.3E-04	2.1E-07	4.2E-08
Total: Inhalation		0.01	0.3	0.3	**1E-06**	2E-07
Produce Ingestion						
Arsenic	7440-38-2	--	8.4E-05	2.0E-04	1.6E-08	7.8E-09
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	4.9E-13	6.9E-13
Benzo(a)pyrene	50-32-8	--	3.0E-08	7.2E-08	6.9E-12	9.8E-12
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	5.6E-14	7.9E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	4.6E-14	6.5E-14
Cadmium	7440-43-9	--	5.9E-04	1.4E-03	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	3.6E-15	5.1E-15
Cobalt	7440-48-4	--	7.1E-04	1.7E-03	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	2.0E-12	2.8E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	5.6E-13	8.0E-13
Iron	7439-89-6	--	4.0E-05	9.7E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	3.4E-04	8.1E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	3.5E-05	8.4E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	2.7E-05	6.4E-05	0.0E+00	0.0E+00
Nickel	7440-02-0	--	4.7E-05	1.1E-04	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	1.5E-14	7.4E-15
Total TEQ	1746-01-6	--	9.4E-03	2.2E-02	3.5E-07	1.7E-07
Total: Produce Ingestion		**--**	0.01	0.03	4E-07	2E-07

Table F-1-J
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 05GRP05
RMG Site, Chicago, Illinois

Soil						
Arsenic	7440-38-2	--	1.1E-11	1.2E-10	2.2E-15	4.6E-15
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.6E-14	1.0E-13
Benzo(a)pyrene	50-32-8	--	8.7E-10	9.3E-09	1.9E-13	1.2E-12
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	1.7E-15	1.1E-14
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	3.7E-15	2.3E-14
Cadmium	7440-43-9	--	5.0E-09	5.4E-08	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.7E-16	1.0E-15
Cobalt	7440-48-4	--	5.3E-05	5.6E-04	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	9.1E-14	5.7E-13
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	2.1E-14	1.3E-13
Iron	7439-89-6	--	2.1E-06	2.2E-05	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	1.3E-05	1.3E-04	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	3.0E-06	3.3E-05	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	1.8E-07	2.0E-06	0.0E+00	0.0E+00
Nickel	7440-02-0	--	4.4E-10	4.7E-09	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	2.0E-15	4.2E-15
Total TEQ	1746-01-6	--	2.2E-03	2.4E-02	5.1E-08	1.1E-07
Total: Soil		**--**	0.002	0.02	5E-08	1E-07
Total: All Residential Pathways		0.01	0.3	0.4	**1E-06**	5E-07
Fish Ingestion*						
Arsenic	7440-38-2	--	6.0E-07	4.2E-07	1.2E-10	1.6E-11
Benzo(a)anthracene	56-55-3	--	0.0E+00	0.0E+00	1.8E-12	7.4E-13
Benzo(a)pyrene	50-32-8	--	1.2E-07	8.3E-08	2.7E-11	1.1E-11
Benzo(b)fluoranthene	205-99-2	--	0.0E+00	0.0E+00	2.6E-12	1.1E-12
Benzo(k)fluoranthene	207-08-9	--	0.0E+00	0.0E+00	2.8E-13	1.2E-13
Cadmium	7440-43-9	--	3.5E-05	2.5E-05	0.0E+00	0.0E+00
Chrysene	218-01-9	--	0.0E+00	0.0E+00	1.4E-14	6.0E-15
Cobalt	7440-48-4	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	--	0.0E+00	0.0E+00	8.2E-12	3.4E-12
Diesel Engine Exhaust	17136615	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	--	0.0E+00	0.0E+00	3.1E-12	1.3E-12
Iron	7439-89-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	--	8.3E-03	5.9E-03	0.0E+00	0.0E+00
Nickel	7440-02-0	--	2.3E-07	1.6E-07	0.0E+00	0.0E+00
PCB-1248	12672-29-6	--	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total TEQ	1746-01-6	--	9.9E-03	7.0E-03	2.6E-07	3.6E-08
Total: Fish Ingestion		--	0.02	0.01	3E-07	4E-08
Total: All Pathways		0.01	0.3	0.4	**2E-06**	5E-07

Table F-1-J
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Grid Receptor 05GRP05
RMG Site, Chicago, Illinois

Notes:
Bolded Cancer Risks exceed the 1E-06 (1 in 1,000,000) risk threshhold but are within the 1E-04 (1 in 10,000) accepable risk range.
*Fish ingestion not evaluated for sensitive receptor locations
CAS - Chemical Abstract Service
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table F-1-K
Chemical Cancer Risks and Non-Cancer Hazards by Receptor - Wolf Lake
RMG Site, Chicago, Illinois

		Non-Carcinogenic Hazard		Carcinogenic Risk	
Receptor Location		Wolf Lake		Wolf Lake	
Receptor Type					
COPC	CAS Number	Adult Angler	Child Angler	Adult Angler	Child Angler
Fish Ingestion					
Arsenic	7440-38-2	6.0E-07	4.2E-07	1.2E-10	1.6E-11
Benzo(a)anthracene	56-55-3	0.0E+00	0.0E+00	1.8E-12	7.4E-13
Benzo(a)pyrene	50-32-8	1.2E-07	8.3E-08	2.7E-11	1.1E-11
Benzo(b)fluoranthene	205-99-2	0.0E+00	0.0E+00	2.6E-12	1.1E-12
Benzo(k)fluoranthene	207-08-9	0.0E+00	0.0E+00	2.8E-13	1.2E-13
Cadmium	7440-43-9	3.5E-05	2.5E-05	0.0E+00	0.0E+00
Chrysene	218-01-9	0.0E+00	0.0E+00	1.4E-14	6.0E-15
Cobalt	7440-48-4	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Dibenz(a,h)anthracene	53-70-3	0.0E+00	0.0E+00	8.2E-12	3.4E-12
Diesel Engine Exhaust	17136615	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Indeno(1,2,3-cd) pyrene	193-39-5	0.0E+00	0.0E+00	3.1E-12	1.3E-12
Iron	7439-89-6	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Lead	7439-92-1	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Manganese	7439-96-5	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Mercuric chloride	7487-94-7	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Methyl mercury	22967-92-6	8.3E-03	5.9E-03	0.0E+00	0.0E+00
Nickel	7440-02-0	2.3E-07	1.6E-07	0.0E+00	0.0E+00
PCB-1248	12672-29-6	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total TEQ	1746-01-6	9.9E-03	7.0E-03	2.6E-07	3.6E-08
Total: Fish Ingestion		2E-02	1E-02	3E-07	4E-08
Total: All Pathways		2E-02	1E-02	3E-07	4E-08

Notes:
CAS - Chemical Abstract Service
PCB - Polychlorinated biphenyl
TEQ - Total toxic equivalence of 2,3,7,8-tetrachlorodibenzo-p-dioxin

Table F-2
Summary of Receptor Risks and Hazards
RMG Site, Chicago, Illinois

Receptor Location	Rowan Park					Day Care				
Receptor Type	Acute Receptor	Adult Resident		Child Resident		Acute Receptor	Adult Resident		Child Resident	
Exposure Pathway	Hazard Index	Cancer Risk	Hazard Index	Cancer Risk	Hazard Index	Hazard Index	Cancer Risk	Hazard Index	Cancer Risk	Hazard Index
Inhalation	0.0042	6.4E-07	0.16	1.3E-07	0.16	0.0054	4.3E-07	0.11	8.7E-08	0.11
Produce Ingestion	--	4.4E-07	0.013	2.1E-07	0.031	--	2.1E-07	0.0061	9.9E-08	0.015
Soil Ingestion	--	6.3E-08	0.0028	1.3E-07	0.030	--	2.9E-08	0.0013	6.2E-08	0.014
Fish Ingestion	--	--	--	--	--	--	--	--	--	--
Total Risk/Hazard	0.004	**1E-06**	0.2	5E-07	0.2	0.005	7E-07	0.1	2E-07	0.1

Notes:
Bolded Cancer Risks exceed the 1E-06 (1 in 1,000,000) risk threshold but are within the 1E-04 (1 in 10,000) accepable risk range.

Table F-2
Summary of Receptor Risks and Hazards
RMG Site, Chicago, Illinois

Receptor Location	**Grid Receptor 01GRP04**								
Receptor Type	**Acute Receptor**	**Adult Resident**		**Adult Resident Angler**		**Child Resident**		**Child Resident Angler**	
Exposure Pathway	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**
Inhalation	0.0069	**1.2E-06**	0.31	**1.2E-06**	0.31	2.4E-07	0.31	2.4E-07	0.31
Produce Ingestion	--	7.3E-07	0.022	7.3E-07	0.022	3.5E-07	0.052	3.5E-07	0.052
Soil Ingestion	--	1.0E-07	0.0046	1.0E-07	0.0046	2.2E-07	0.049	2.2E-07	0.049
Fish Ingestion	--	--	--	2.6E-07	0.018	--	--	3.6E-08	0.013
Total Risk/Hazard	0.007	**2E-06**	0.3	**2E-06**	0.4	8E-07	0.4	9E-07	0.4

Notes:
Bolded Cancer Risks exce

Table F-2
Summary of Receptor Risks and Hazards
RMG Site, Chicago, Illinois

Receptor Location	**Grid Receptor 01GRP05**								
Receptor Type	**Acute Receptor**	**Adult Resident**		**Adult Resident Angler**		**Child Resident**		**Child Resident Angler**	
Exposure Pathway	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**
Inhalation	0.0058	8.8E-07	0.22	8.8E-07	0.22	1.8E-07	0.22	1.8E-07	0.22
Produce Ingestion	--	5.4E-07	0.016	5.4E-07	0.016	2.6E-07	0.038	2.6E-07	0.038
Soil Ingestion	--	7.6E-08	0.0034	7.6E-08	0.0034	1.6E-07	0.036	1.6E-07	0.036
Fish Ingestion	--	--	--	2.6E-07	0.018	--	--	3.6E-08	0.013
Total Risk/Hazard	0.006	**1E-06**	0.2	**2E-06**	0.3	6E-07	0.3	6E-07	0.3

Notes:
Bolded Cancer Risks exce

Table F-2
Summary of Receptor Risks and Hazards
RMG Site, Chicago, Illinois

Receptor Location	**Grid Receptor 02GRP04**								
Receptor Type	**Acute Receptor**	**Adult Resident**		**Adult Resident Angler**		**Child Resident**		**Child Resident Angler**	
Exposure Pathway	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**
Inhalation	0.0065	**1.0E-06**	0.26	**1.0E-06**	0.26	2.1E-07	0.26	2.1E-07	0.26
Produce Ingestion	--	8.2E-07	0.024	8.2E-07	0.024	3.9E-07	0.057	3.9E-07	0.057
Soil Ingestion	--	1.2E-07	0.0052	1.2E-07	0.0052	2.5E-07	0.055	2.5E-07	0.055
Fish Ingestion	--	--	--	2.6E-07	0.018	--	--	3.6E-08	0.013
Total Risk/Hazard	0.006	**2E-06**	0.3	**2E-06**	0.3	8E-07	0.4	9E-07	0.4

Notes:
Bolded Cancer Risks exce

Table F-2
Summary of Receptor Risks and Hazards
RMG Site, Chicago, Illinois

Receptor Location	**Grid Receptor 02GRP05**								
Receptor Type	**Acute Receptor**	**Adult Resident**		**Adult Resident Angler**		**Child Resident**		**Child Resident Angler**	
Exposure Pathway	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**
Inhalation	0.0050	7.6E-07	0.19	7.6E-07	0.19	1.5E-07	0.19	1.5E-07	0.19
Produce Ingestion	--	5.8E-07	0.017	5.8E-07	0.017	2.8E-07	0.040	2.8E-07	0.040
Soil Ingestion	--	8.2E-08	0.0037	8.2E-08	0.0037	1.8E-07	0.039	1.8E-07	0.039
Fish Ingestion	--	--	--	2.6E-07	0.018	--	--	3.6E-08	0.013
Total Risk/Hazard	0.005	**1E-06**	0.2	**2E-06**	0.2	6E-07	0.3	6E-07	0.3

Notes:
Bolded Cancer Risks exce

Table F-2
Summary of Receptor Risks and Hazards
RMG Site, Chicago, Illinois

Receptor Location	**Grid Receptor 03GRP04**								
Receptor Type	**Acute Receptor**	**Adult Resident**		**Adult Resident Angler**		**Child Resident**		**Child Resident Angler**	
Exposure Pathway	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**
Inhalation	0.010	**1.4E-06**	0.4	**1.4E-06**	0.40	2.9E-07	0.40	2.9E-07	0.40
Produce Ingestion	--	5.8E-07	0.02	5.8E-07	0.018	2.8E-07	0.042	2.8E-07	0.042
Soil Ingestion	--	8.1E-08	0.004	8.1E-08	0.0036	1.7E-07	0.039	1.7E-07	0.039
Fish Ingestion	--	--	--	2.6E-07	0.018	--	--	3.6E-08	0.013
Total Risk/Hazard	0.01	**2E-06**	0.4	**2E-06**	0.4	7E-07	0.5	8E-07	0.5

Notes:
Bolded Cancer Risks exce

Table F-2
Summary of Receptor Risks and Hazards
RMG Site, Chicago, Illinois

Receptor Location	Grid Receptor 03GRP05								
Receptor Type	Acute Receptor	Adult Resident		Adult Resident Angler		Child Resident		Child Resident Angler	
Exposure Pathway	Hazard Index	Cancer Risk	Hazard Index	Cancer Risk	Hazard Index	Cancer Risk	Hazard Index	Cancer Risk	Hazard Index
Inhalation	0.010	**1.0E-06**	0.28	**1.0E-06**	0.28	2.0E-07	0.28	2.0E-07	0.28
Produce Ingestion	--	4.5E-07	0.013	4.5E-07	0.013	2.1E-07	0.032	2.1E-07	0.032
Soil Ingestion	--	6.3E-08	0.0028	6.3E-08	0.0028	1.3E-07	0.030	1.3E-07	0.030
Fish Ingestion	--	--	--	2.6E-07	0.018	--	--	3.6E-08	0.013
Total Risk/Hazard	0.01	**2E-06**	0.3	**2E-06**	0.3	6E-07	0.3	6E-07	0.4

Notes:
Bolded Cancer Risks exce

Table F-2
Summary of Receptor Risks and Hazards
RMG Site, Chicago, Illinois

Receptor Location	**Grid Receptor 05GRP04**								
Receptor Type	**Acute Receptor**	**Adult Resident**		**Adult Resident Angler**		**Child Resident**		**Child Resident Angler**	
Exposure Pathway	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**
Inhalation	0.010	**1.4E-06**	0.4	**1.4E-06**	0.43	2.8E-07	0.43	2.8E-07	0.43
Produce Ingestion	--	4.6E-07	0.01	4.6E-07	0.014	2.2E-07	0.034	2.2E-07	0.034
Soil Ingestion	--	6.4E-08	0.003	6.4E-08	0.0029	1.4E-07	0.031	1.4E-07	0.031
Fish Ingestion	--	--	--	2.6E-07	0.018	--	--	3.6E-08	0.013
Total Risk/Hazard	0.01	**2E-06**	0.4	**2E-06**	0.5	6E-07	0.5	7E-07	0.5

Notes:
Bolded Cancer Risks exce

Table F-2
Summary of Receptor Risks and Hazards
RMG Site, Chicago, Illinois

Receptor Location	**Grid Receptor 05GRP05**								
Receptor Type	**Acute Receptor**	**Adult Resident**		**Adult Resident Angler**		**Child Resident**		**Child Resident Angler**	
Exposure Pathway	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**	**Cancer Risk**	**Hazard Index**
Inhalation	0.010	**1.0E-06**	0.31	**1E-06**	0.31	2.1E-07	0.31	2.1E-07	0.31
Produce Ingestion	--	3.6E-07	0.011	4E-07	0.011	1.7E-07	0.027	1.7E-07	0.027
Soil Ingestion	--	5.1E-08	0.0023	5E-08	0.0023	1.1E-07	0.025	1.1E-07	0.025
Fish Ingestion	--	--	--	3E-07	0.018	--	--	3.6E-08	0.013
Total Risk/Hazard	0.01	**1E-06**	0.3	**2E-06**	0.3	5E-07	0.4	5E-07	0.4

Notes:
Bolded Cancer Risks exce

Table F-2
Summary of Receptor Risks and Hazards
RMG Site, Chicago, Illinois

Receptor Location	Wolf Lake			
Receptor Type	Adult Angler		Child Angler	
Exposure Pathway	Cancer Risk	Hazard Index	Cancer Risk	Hazard Index
Inhalation	--	--	--	--
Produce Ingestion	--	--	--	--
Soil Ingestion	--	--	--	--
Fish Ingestion	2.6E-07	0.018	3.6E-08	0.013
Total Risk/Hazard	3E-07	0.02	4E-08	0.01

Notes:
Bolded Cancer Risks exce

ATTACHMENT 1

Historical Sanborn Fire Insurance Maps

Fire Insurance Maps

Southside Recycling

11600 S Burley Avenue

Chicago, IL 60617

Inquiry Number: 6809942.1

January 07, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/07/22

Site Name:	**Client Name:**
Southside Recycling	Tetra Tech EM, Inc.
11600 S Burley Avenue	1 South Wacker Drive, 37th Floor
Chicago, IL 60617	Chicago, IL 60606
EDR Inquiry # 6809942.1	Contact: Stacey Durley

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Tetra Tech EM, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

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Certified Sanborn Results:

Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946
1913

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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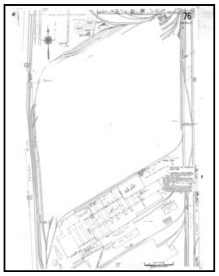
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

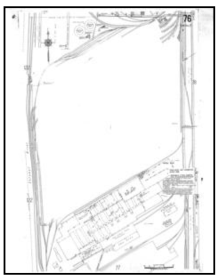
2004 Source Sheets



Volume 48, Sheet 76
2004

Volume 48, Sheet 77
2004

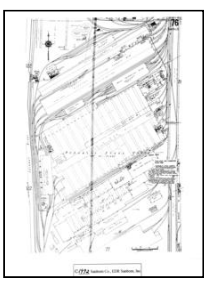
2002 Source Sheets



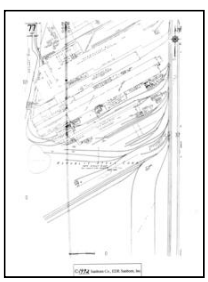
Volume 48, Sheet 76
2002

Volume 48, Sheet 77
2002

1992 Source Sheets



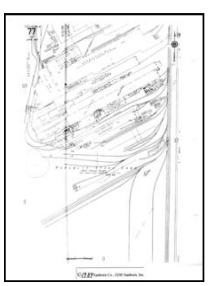
Volume 48, Sheet 76
1992



Volume 48, Sheet 77
1992

1989 Source Sheets

Volume 48, Sheet 76
1989



Volume 48, Sheet 77
1989

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1987 Source Sheets

Volume 48, Sheet 76
1987

Volume 48, Sheet 77
1987

1976 Source Sheets

Volume 48, Sheet 76
1976

Volume 48, Sheet 77
1976

1950 Source Sheets

Volume 48, Sheet 76
1950

Volume 48, Sheet 77
1950

1947 Source Sheets

Volume 48, Sheet 76
1947

Volume 48, Sheet 77
1947

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1946 Source Sheets

Volume F, Sheet 48
1946

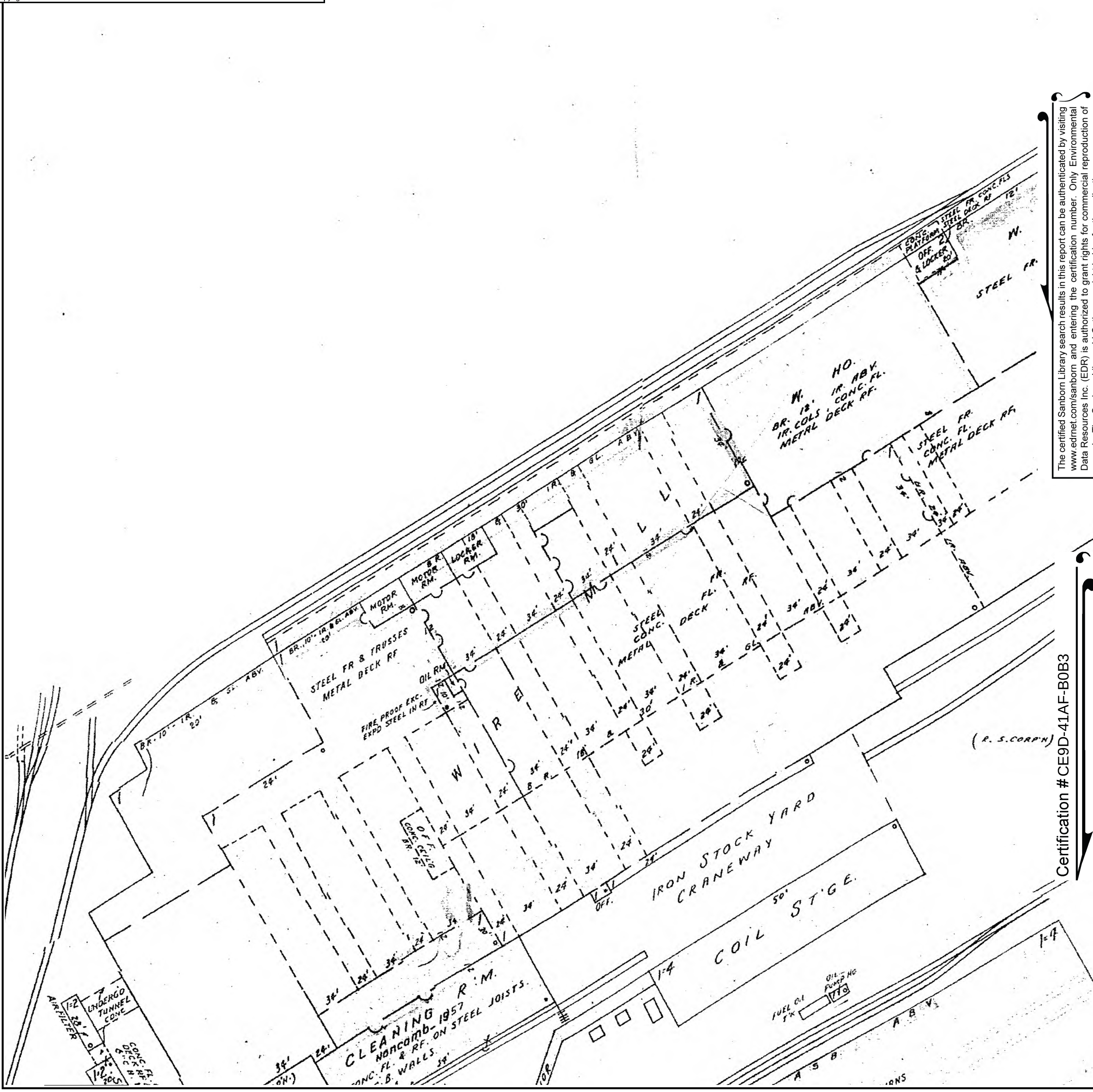
1913 Source Sheets

Volume F, Sheet 128
1913

Certified Sanborn® Map

2004

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 2004



Certification # CE9D-41AF-B0B3

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Outlined areas indicate map sheets within the collection.

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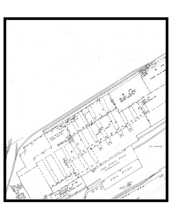
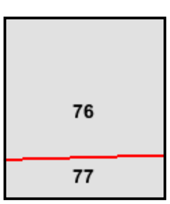




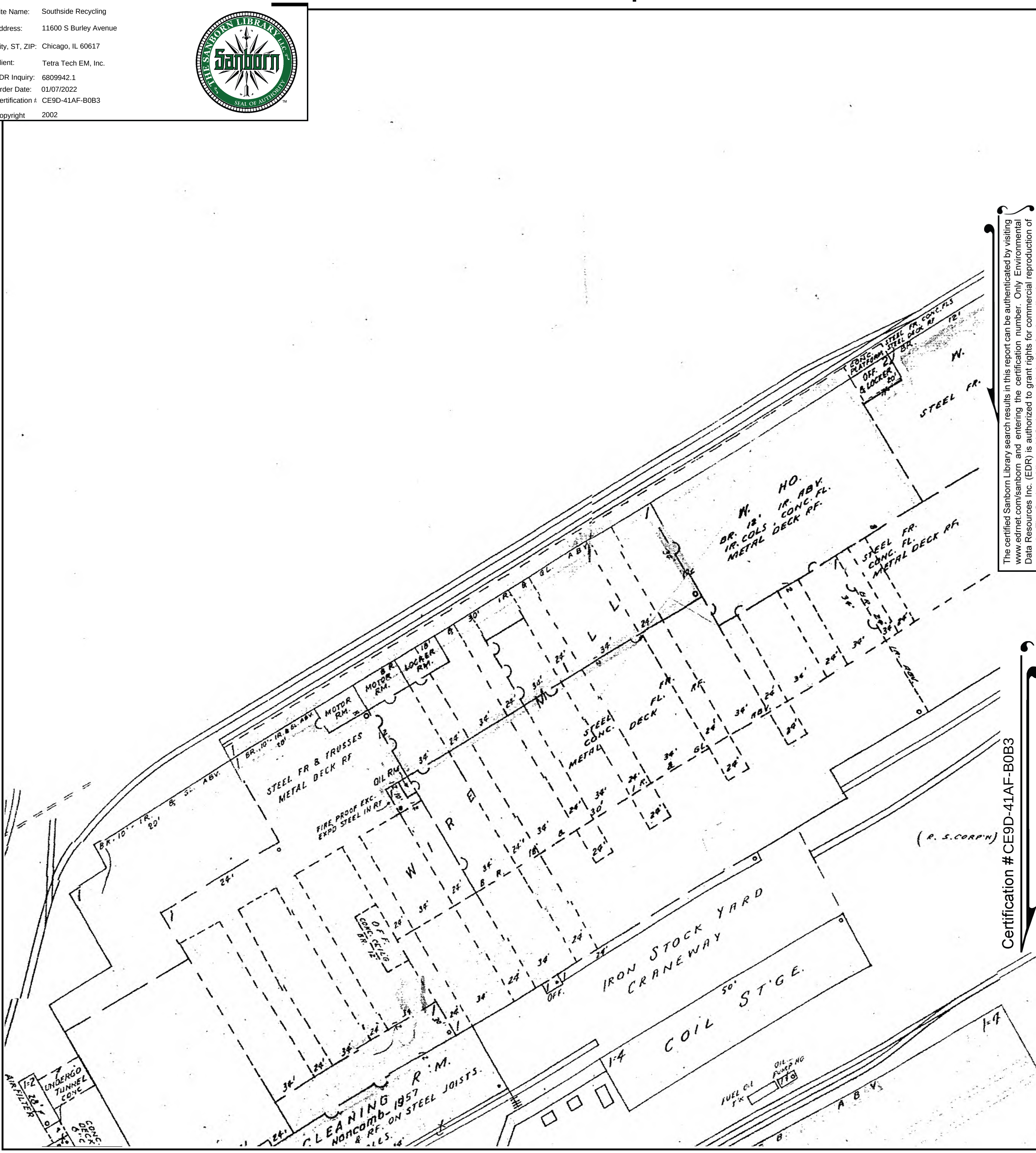
Volume 48, Sheet 77
Volume 48, Sheet 76

N

Certified Sanborn® Map

2002

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright 2002



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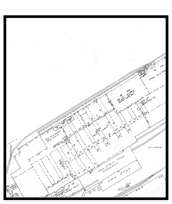

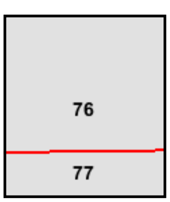

Volume 48, Sheet 77
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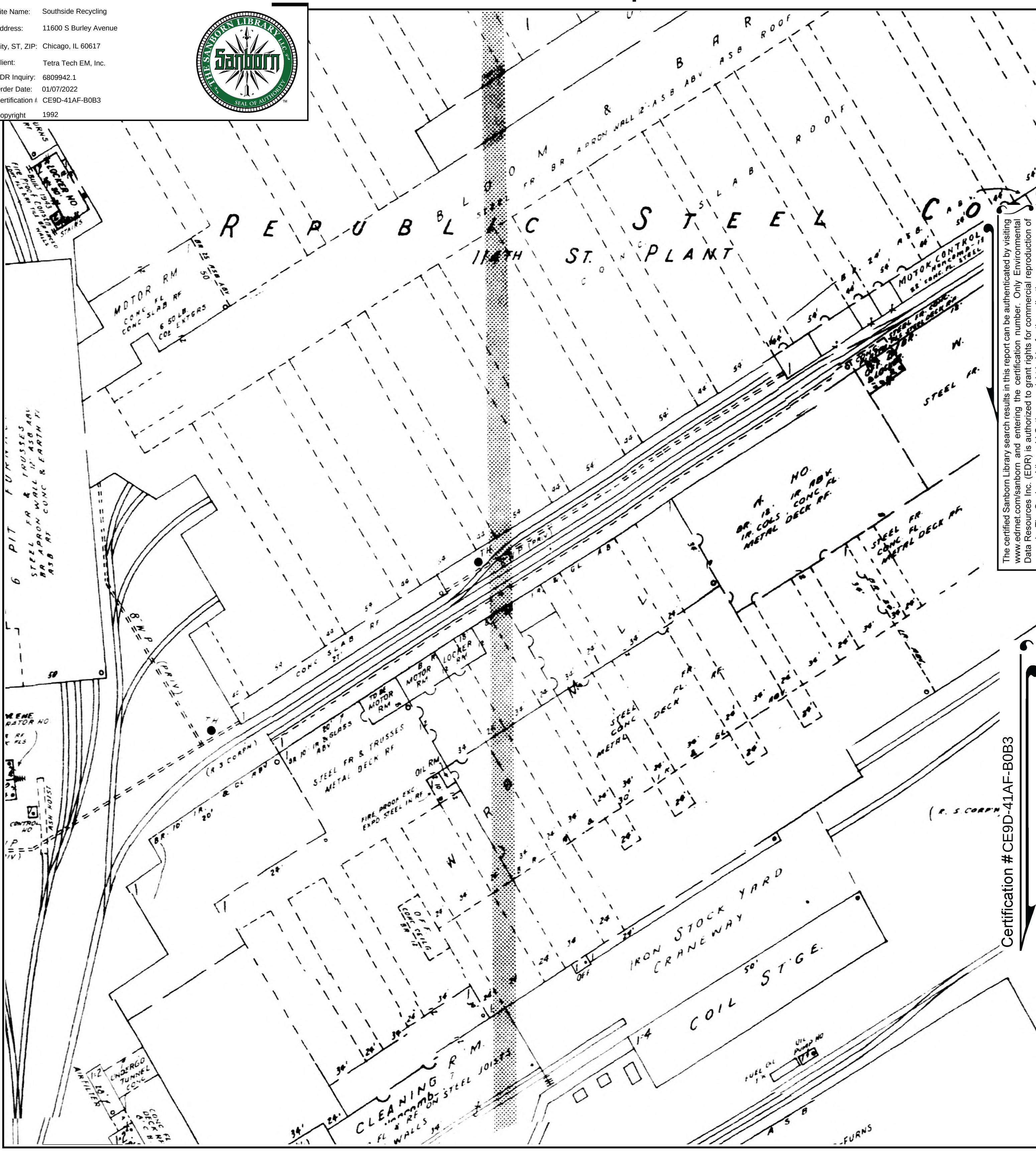
Certified Sanborn® Map

1992

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1992



Certification # CE9D-41AF-B0B3

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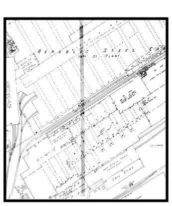
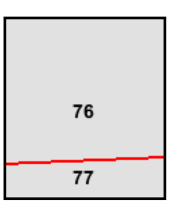




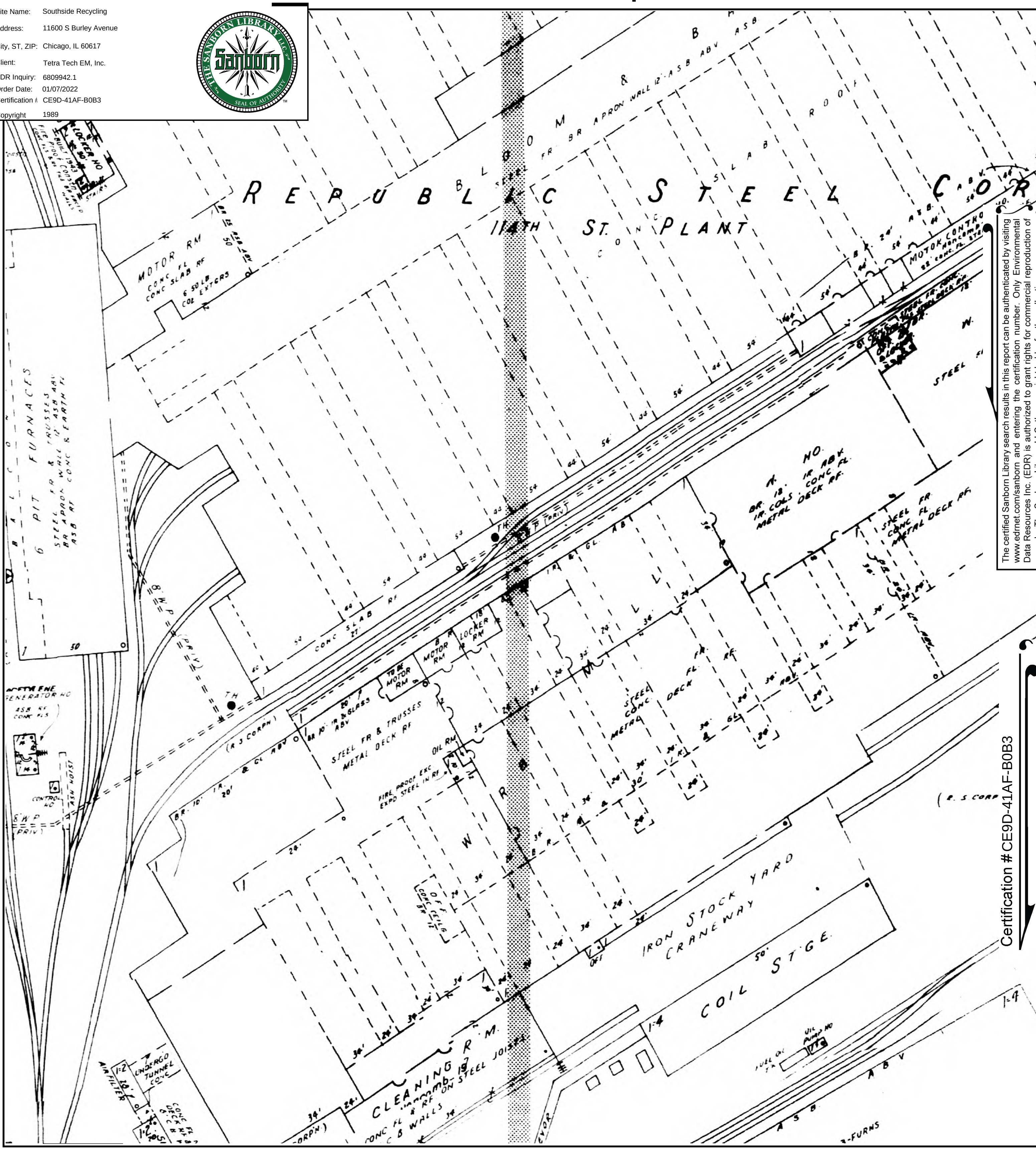
Volume 48, Sheet 77
Volume 48, Sheet 76

N

Certified Sanborn® Map

1989

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1989



Certification # CE9D-41AF-B0B3

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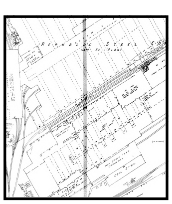

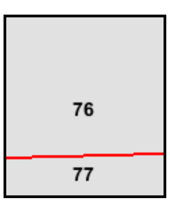

Volume 48, Sheet 77
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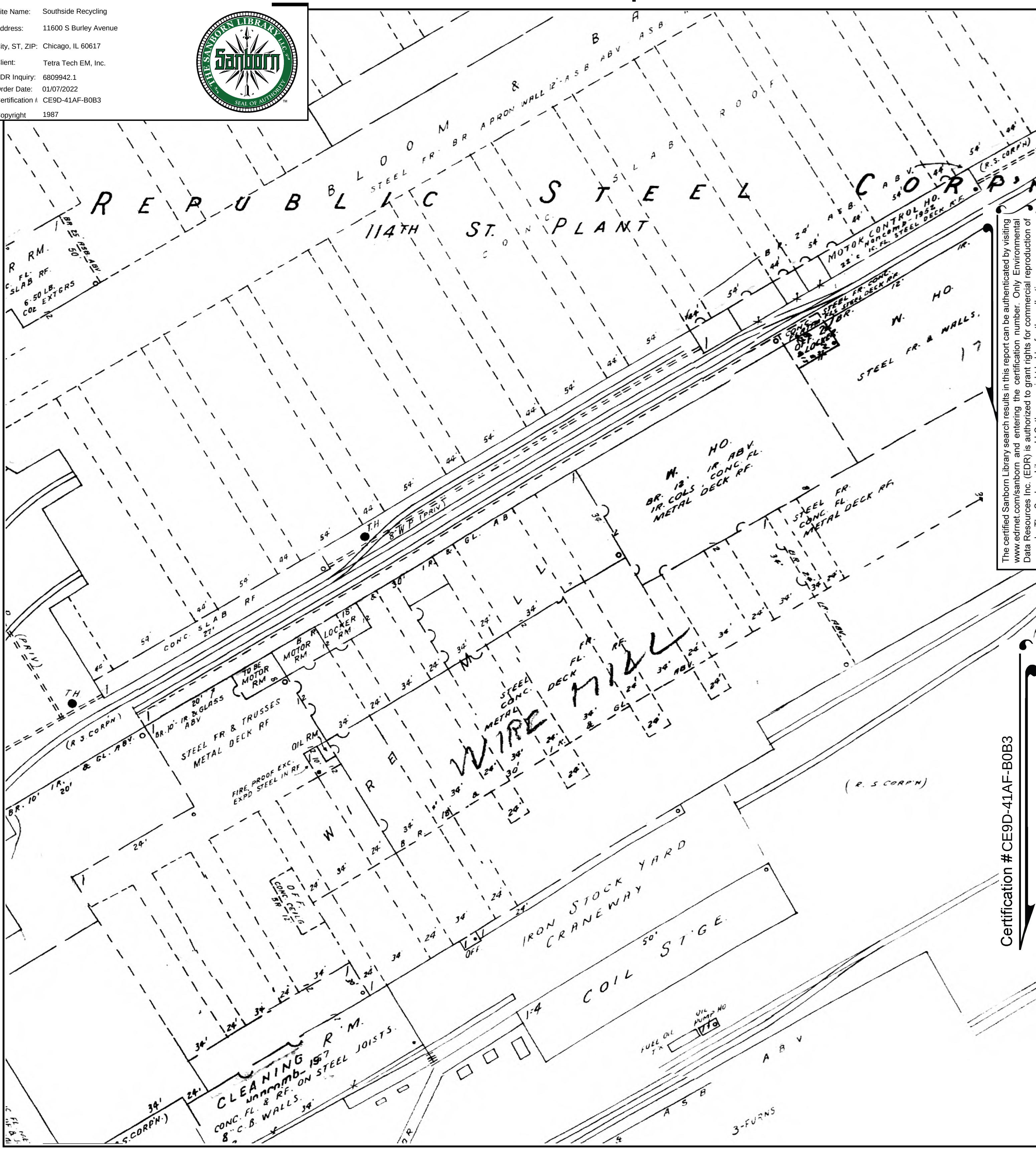
N

Certified Sanborn® Map

1987

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1987



Certification # CE9D-41AF-B0B3

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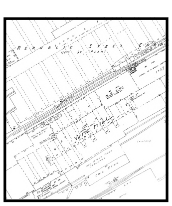
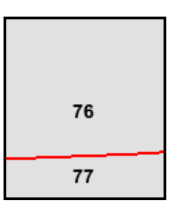


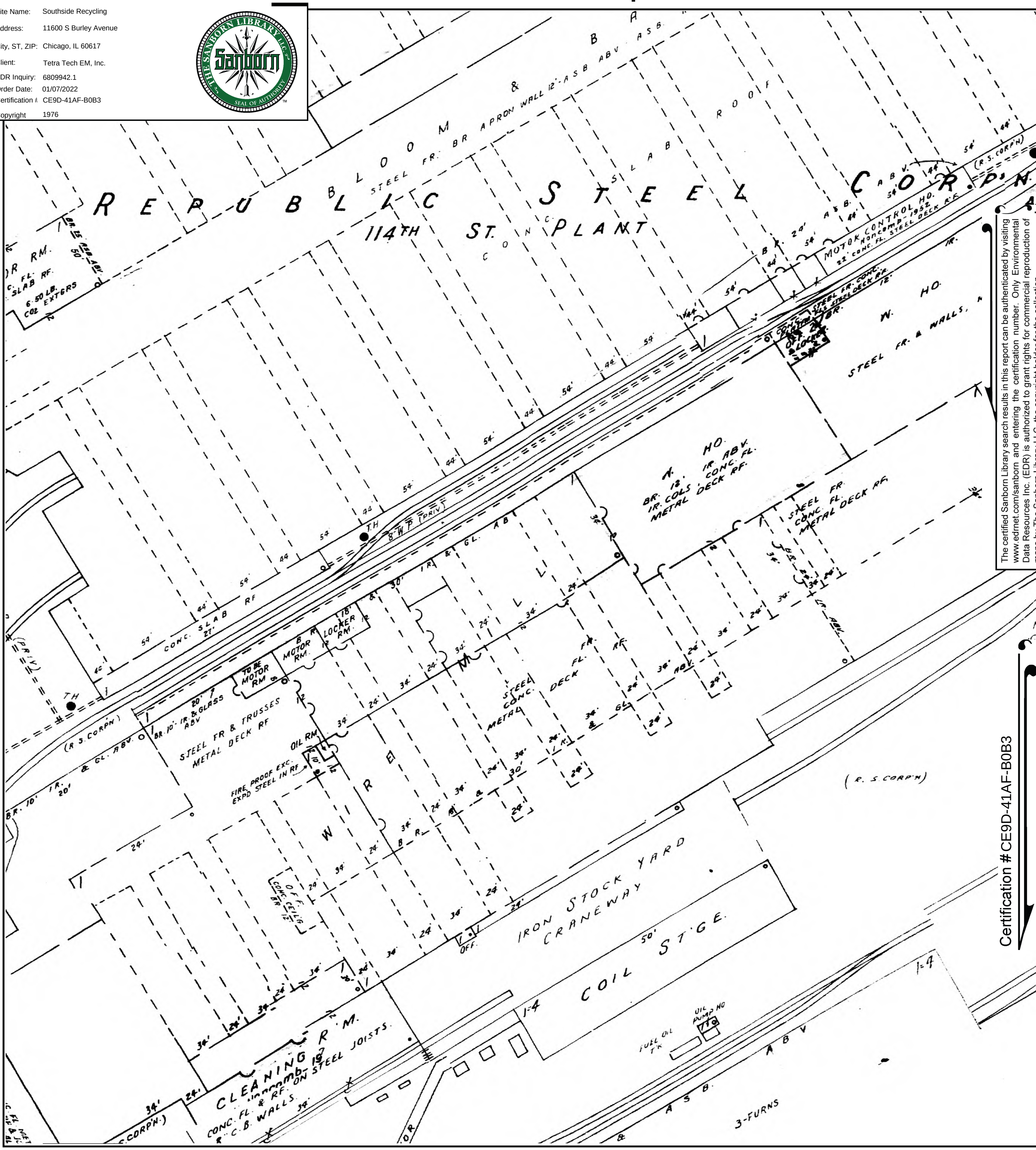


Volume 48, Sheet 77
Volume 48, Sheet 76

Certified Sanborn® Map

1976

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1976



Certification # CE9D-41AF-B0B3

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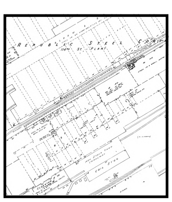

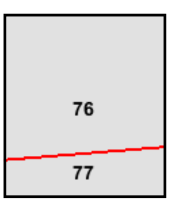

Volume 48, Sheet 77
Volume 48, Sheet 76

N

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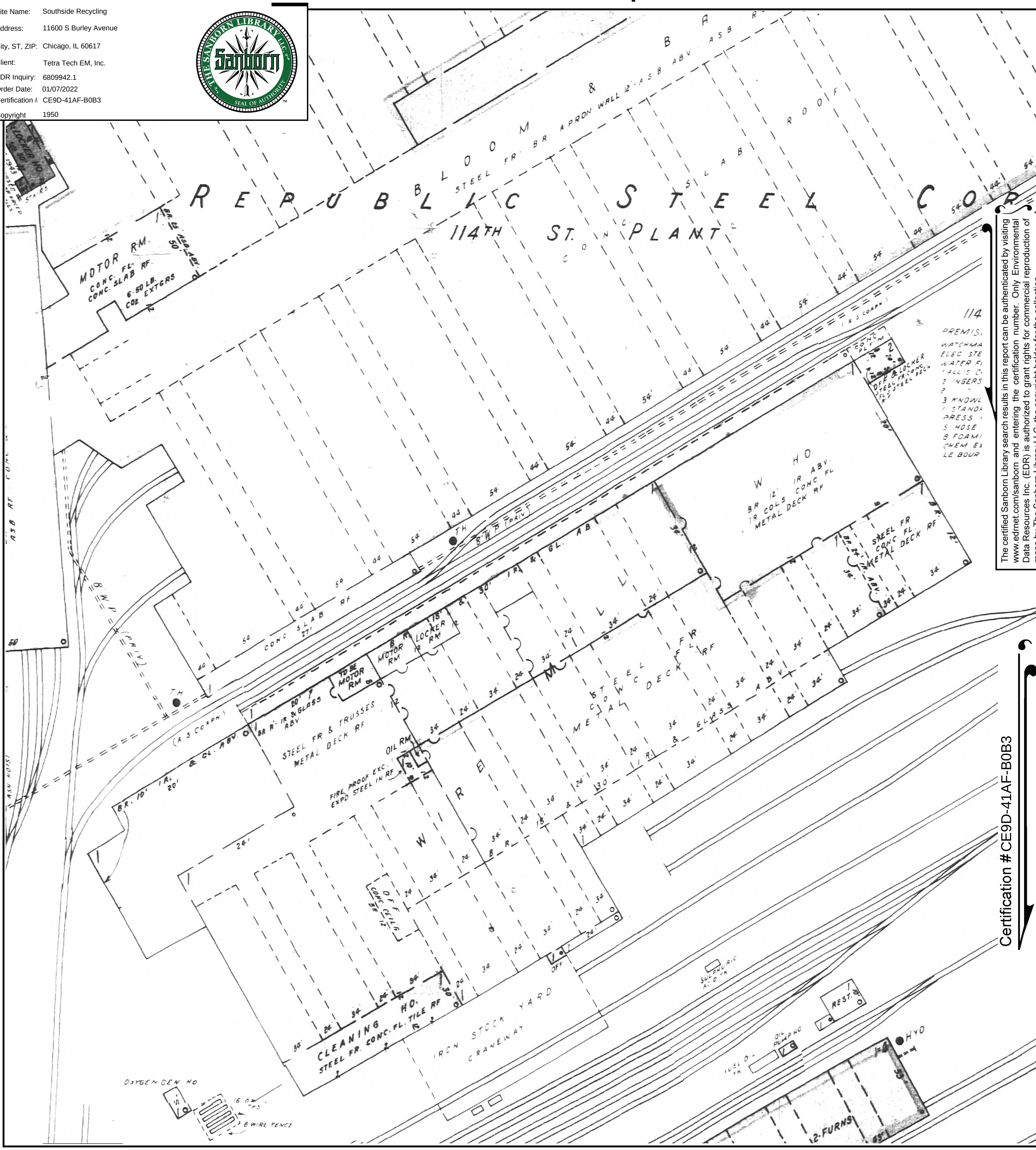
1950

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1950



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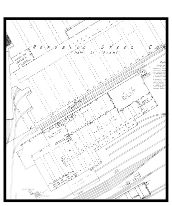
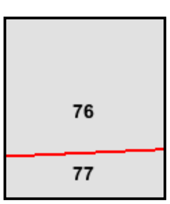


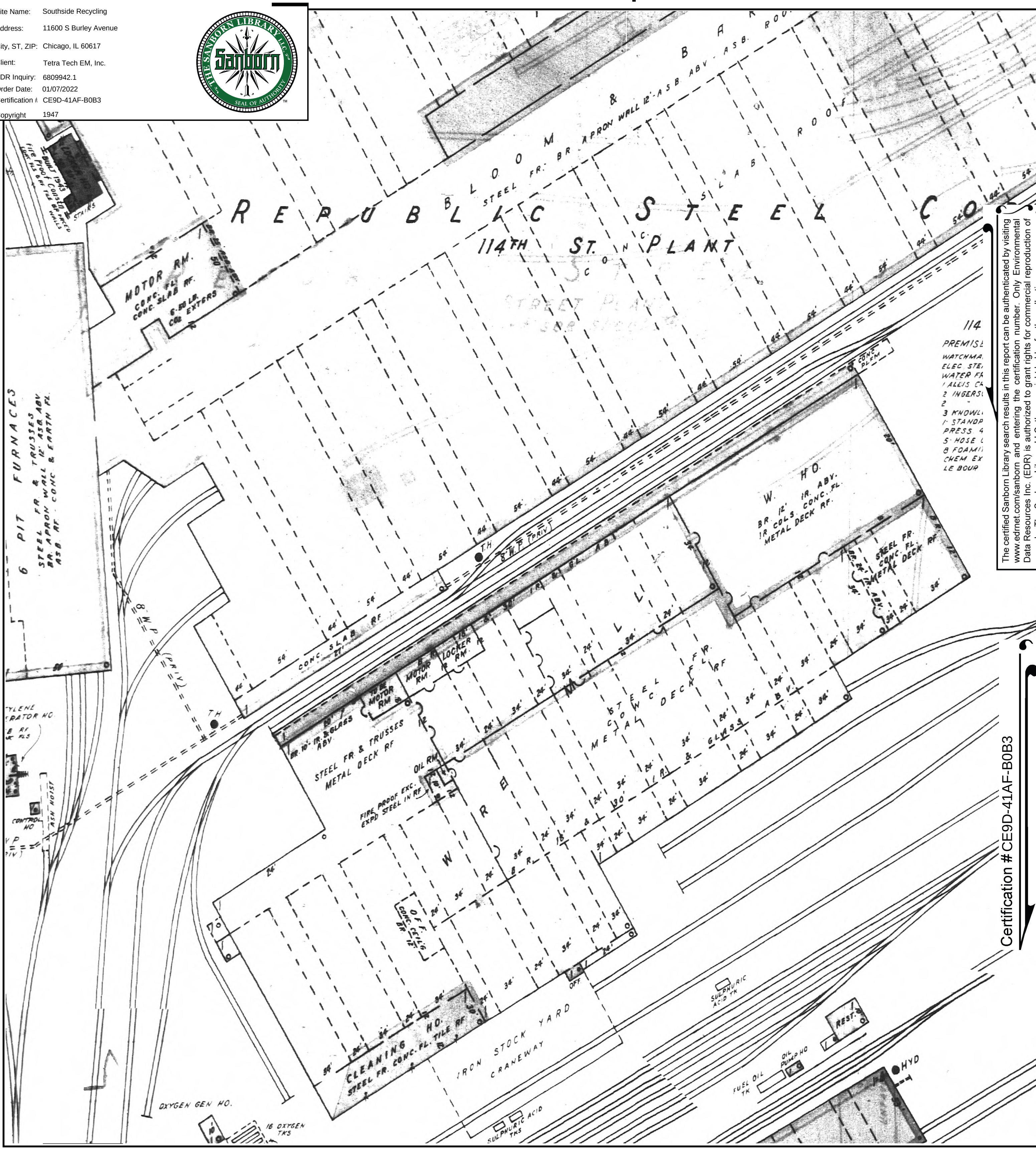


Volume 48, Sheet 77
Volume 48, Sheet 76

Certified Sanborn® Map

1947

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1947



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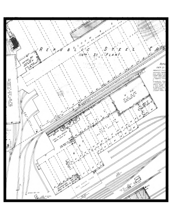

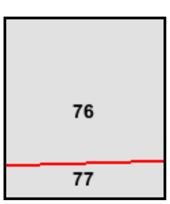

Volume 48, Sheet 77
Volume 48, Sheet 76

0 Feet 150 300 600

N

Certified Sanborn® Map

1946

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
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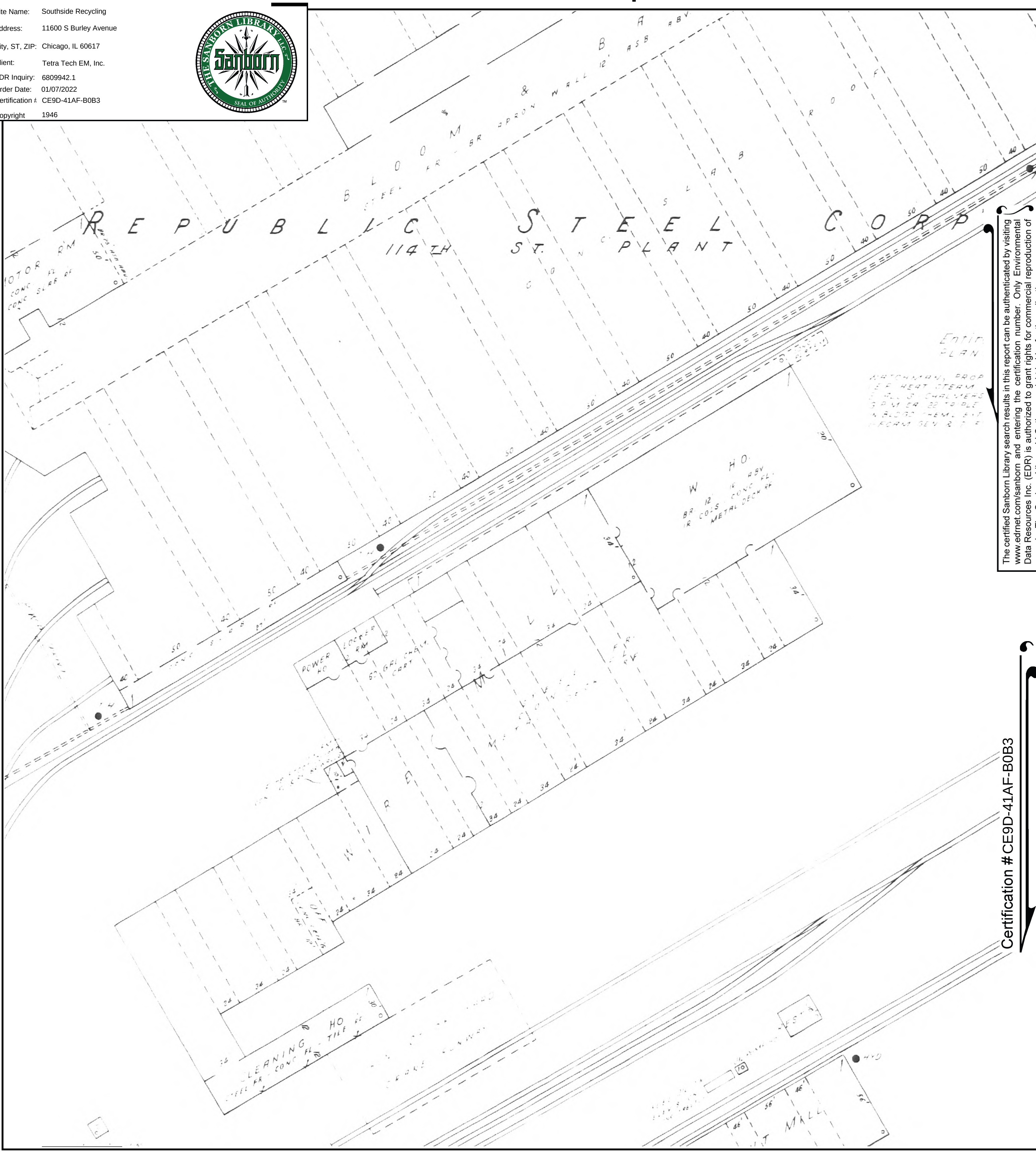
Copyright 1946



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0 Feet 150 300 600

48

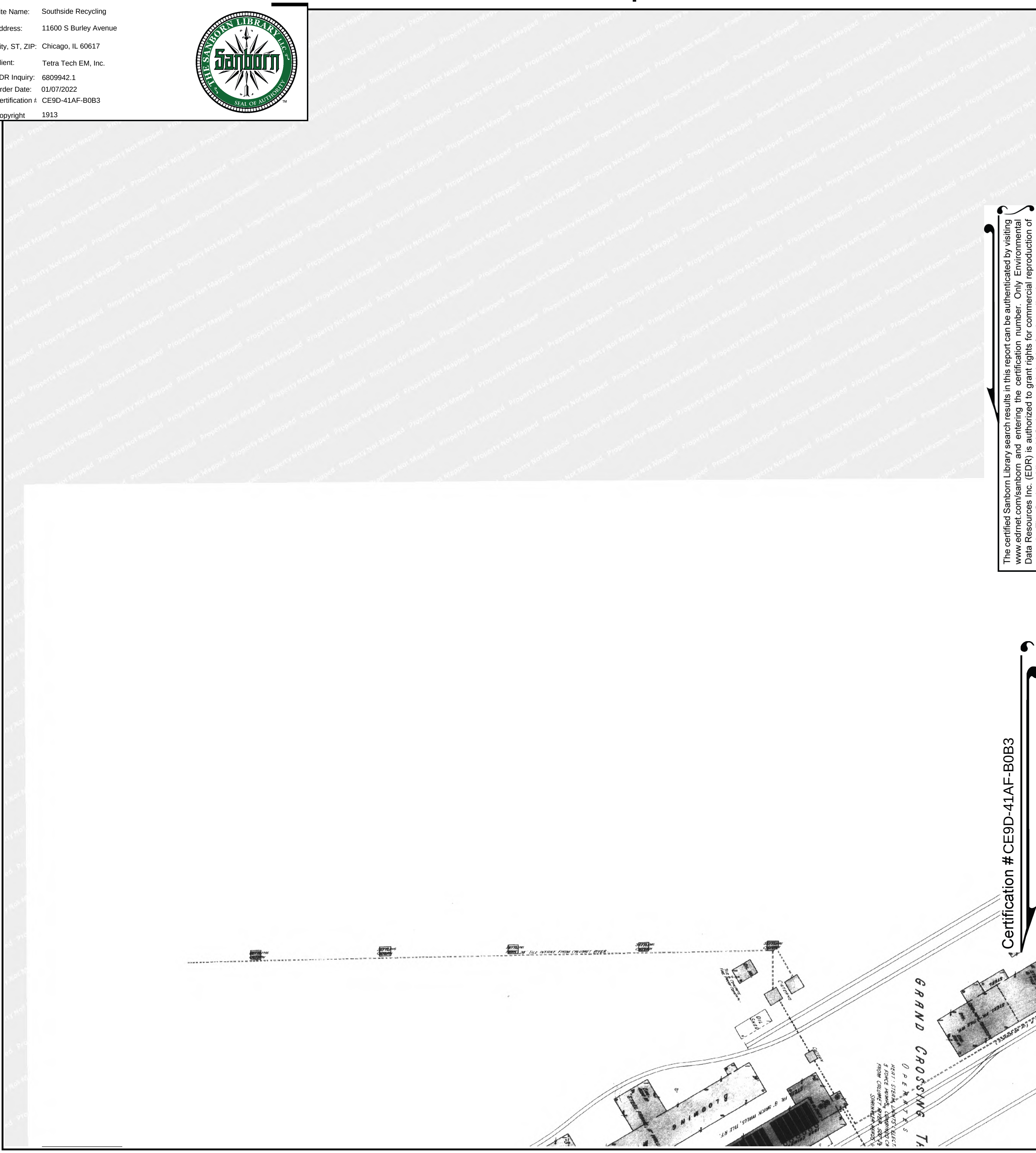
Volume F, Sheet 48

N

Certified Sanborn® Map

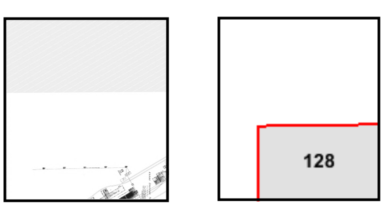
1913

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1913



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



Volume F, Sheet 128

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617

Inquiry Number: 6809942.1
January 07, 2022

Certified Sanborn® Map Report

EDR®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/07/22

Site Name:	Client Name:
Southside Recycling	Tetra Tech EM, Inc.
11600 S Burley Avenue	1 South Wacker Drive, 37th Floor
Chicago, IL 60617	Chicago, IL 60606
EDR Inquiry # 6809942.1	Contact: Stacey Durley

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
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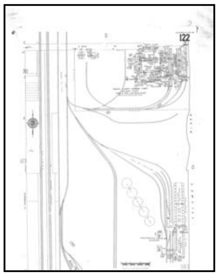
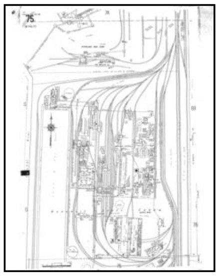
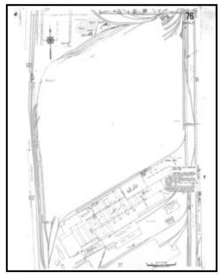
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

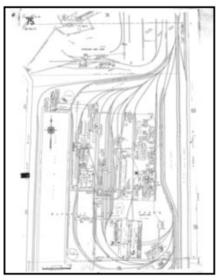
2004 Source Sheets

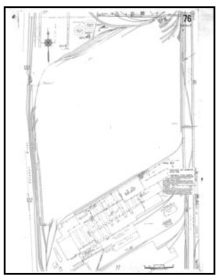

Volume 48, Sheet 122
2004

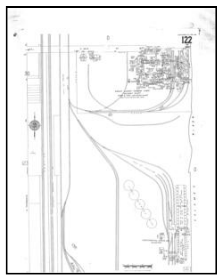

Volume 48, Sheet 75
2004


Volume 48, Sheet 76
2004

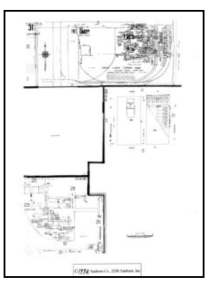
2002 Source Sheets

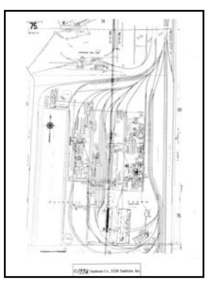

Volume 48, Sheet 75
2002

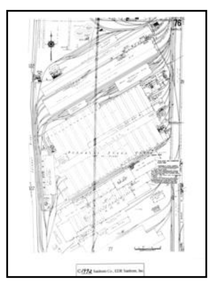

Volume 48, Sheet 76
2002

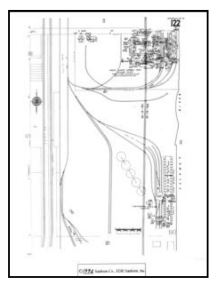

Volume 48, Sheet 122
2002

1992 Source Sheets


Volume 48, Sheet 31
1992


Volume 48, Sheet 75
1992


Volume 48, Sheet 76
1992


Volume 48, Sheet 122
1992

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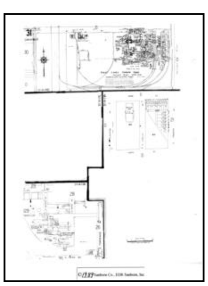
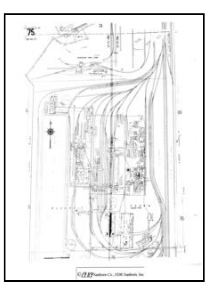
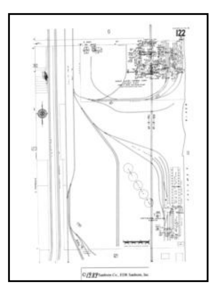

Volume 48, Sheet 31
1989


Volume 48, Sheet 75
1989

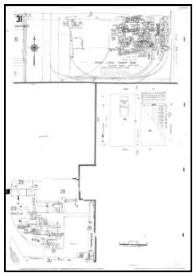

Volume 48, Sheet 76
1989


Volume 48, Sheet 122
1989

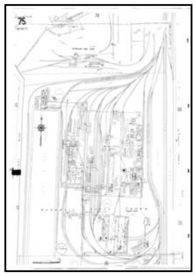
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1987 Source Sheets

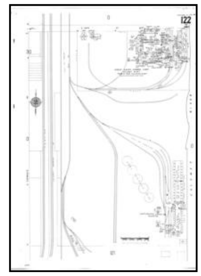


Volume 48, Sheet 31
1987



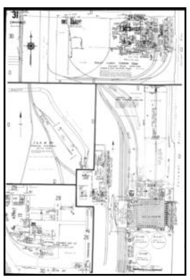
Volume 48, Sheet 75
1987

Volume 48, Sheet 76
1987

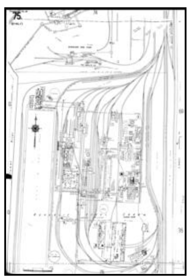


Volume 48, Sheet 122
1987

1976 Source Sheets



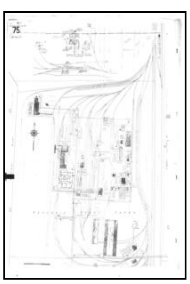
Volume 48, Sheet 31
1976



Volume 48, Sheet 75
1976

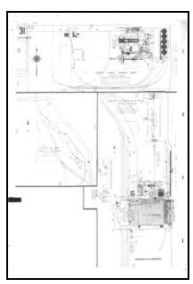
Volume 48, Sheet 76
1976

1950 Source Sheets



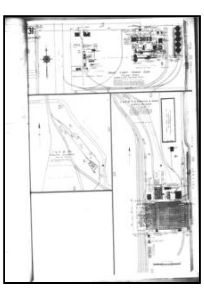
Volume 48, Sheet 75
1950

Volume 48, Sheet 76
1950

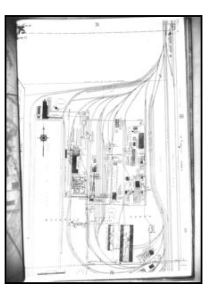


Volume 48, Sheet 31
1950

1947 Source Sheets



Volume 48, Sheet 31
1947



Volume 48, Sheet 75
1947

Volume 48, Sheet 76
1947

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1946 Source Sheets

Volume F, Sheet 47
1946

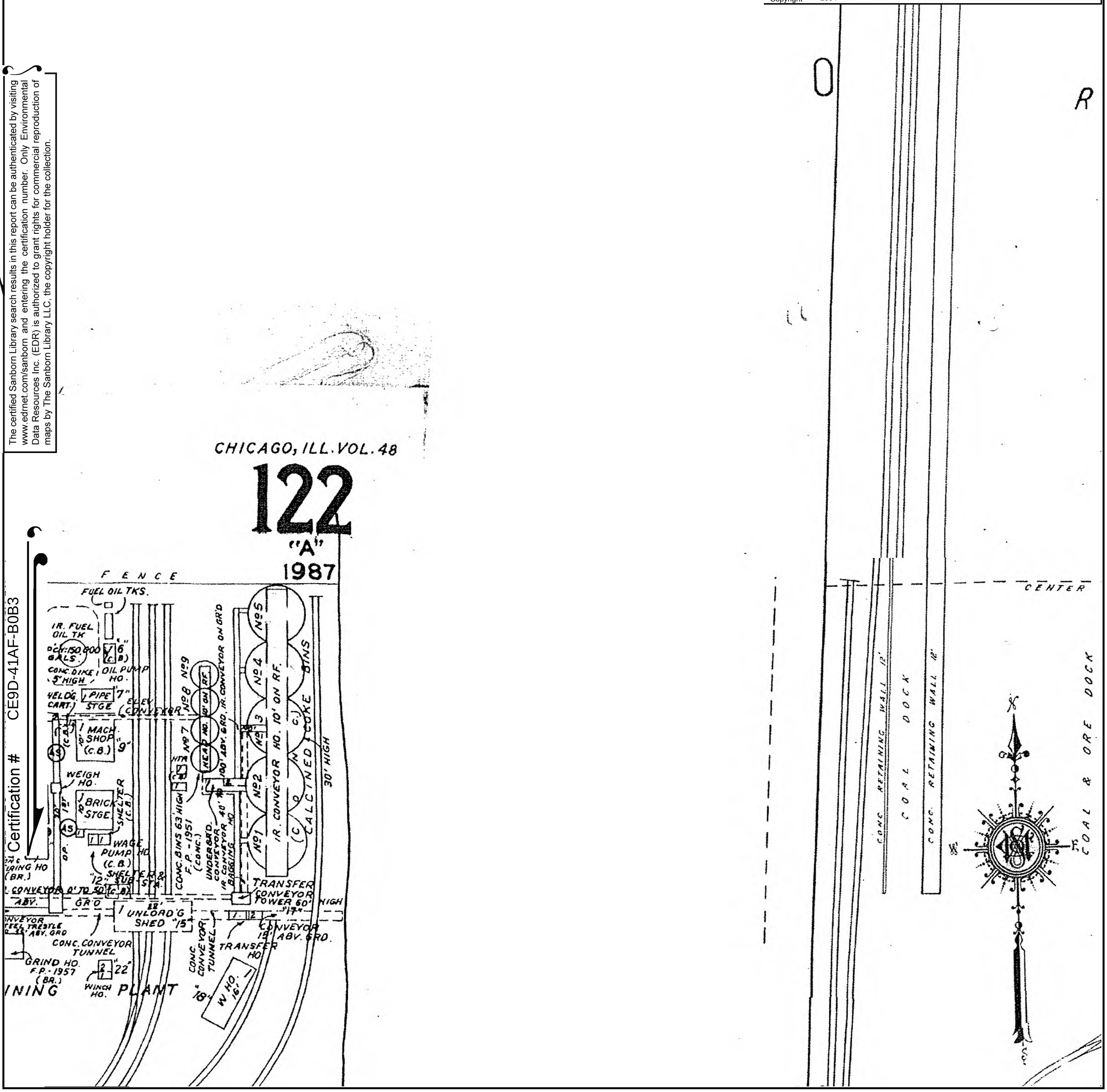
Volume F, Sheet 48
1946

Certified Sanborn® Map

2004

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 2004

Certification # CE9D-41AF-B0B3



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Outlined areas indicate map sheets within the collection.

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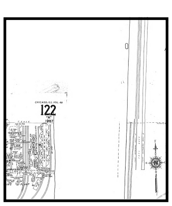
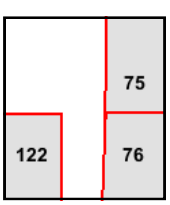




Volume 48, Sheet 76
Volume 48, Sheet 75
Volume 48, Sheet 122

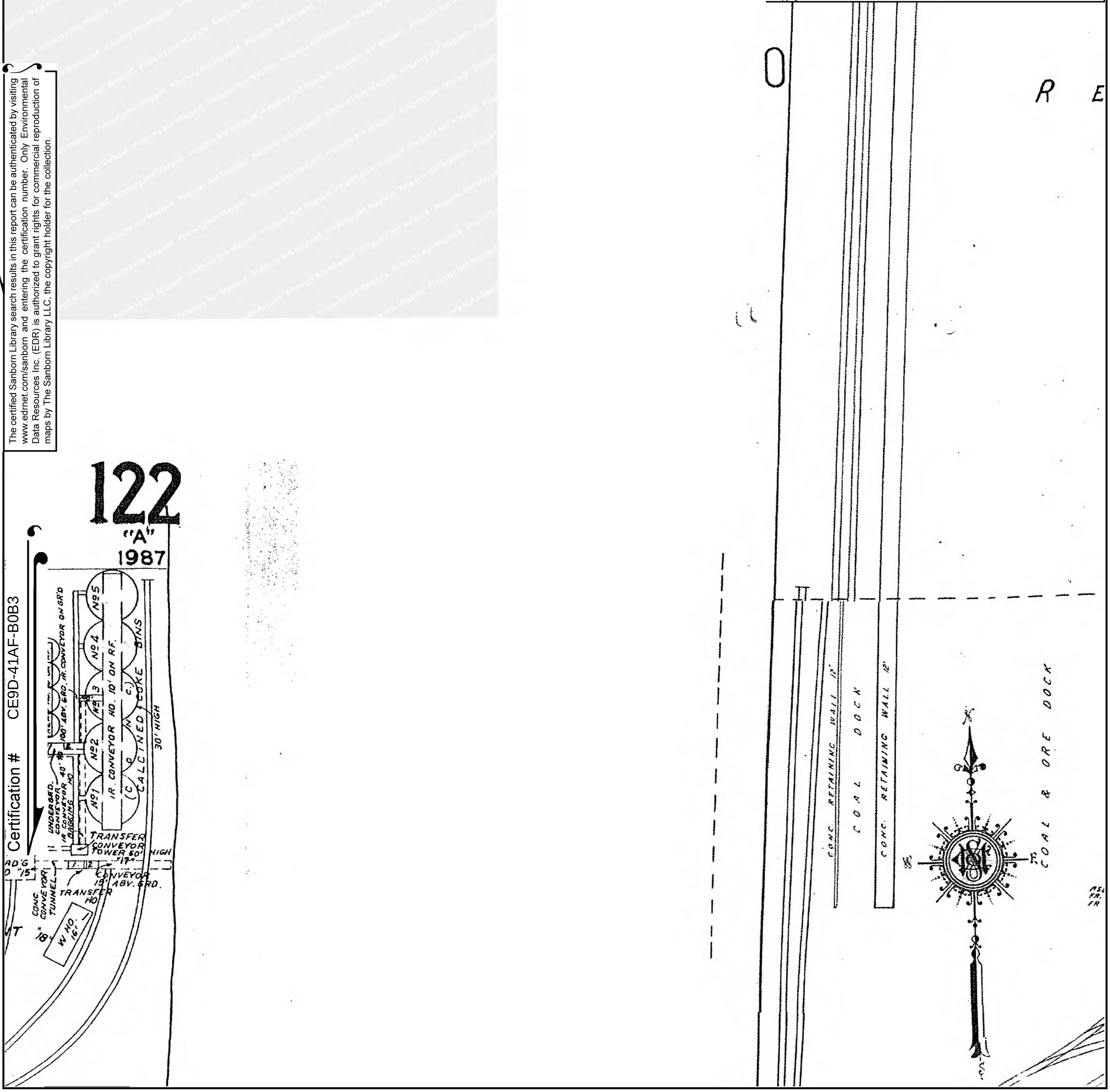
N

Certified Sanborn® Map

2002

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 2002

Certification # CE9D-41AF-B0B3



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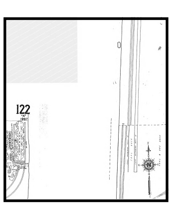
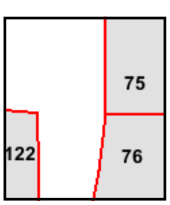




Volume 48, Sheet 122
Volume 48, Sheet 76
Volume 48, Sheet 75

0 Feet 150 300 600

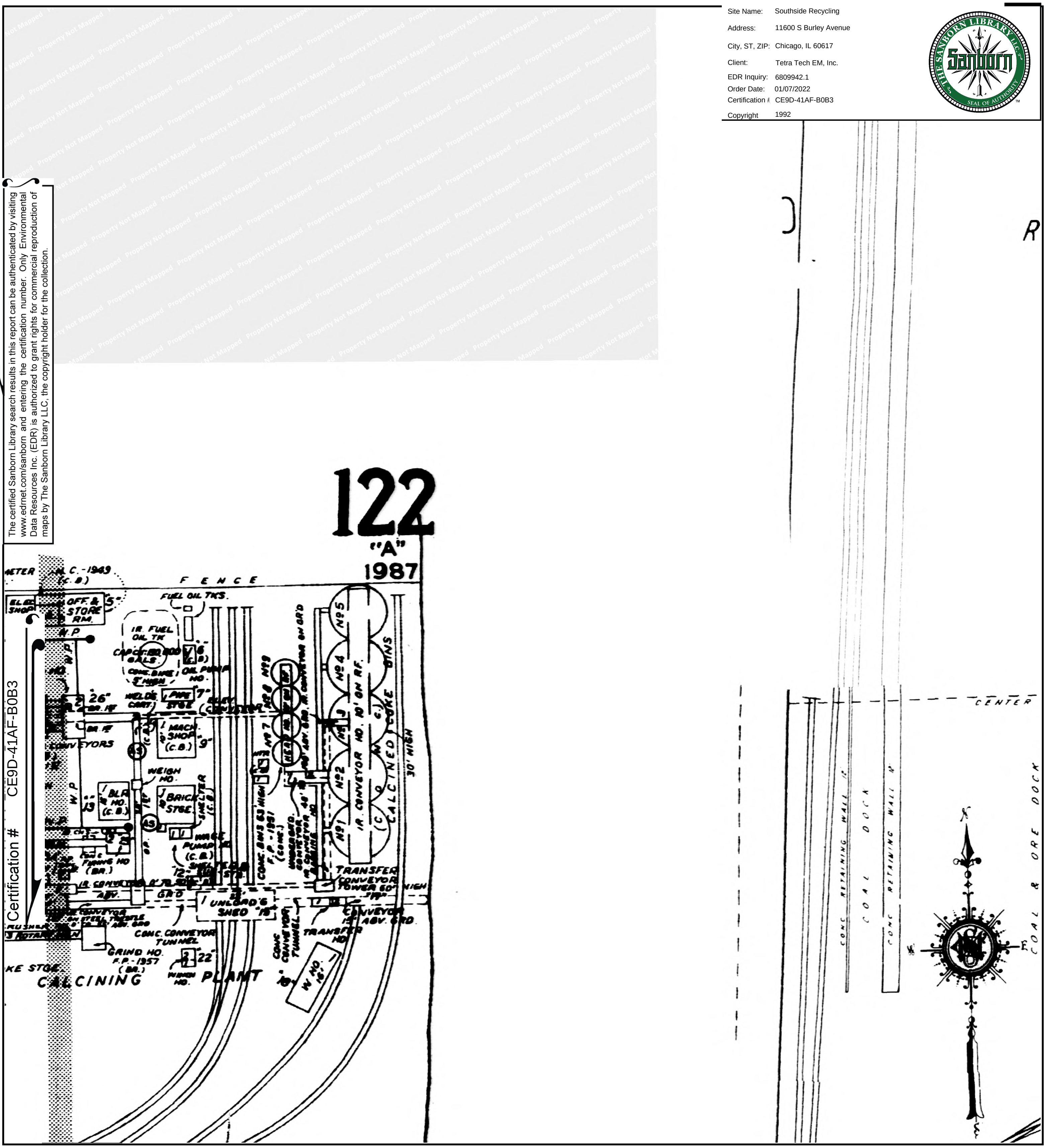
N

Certified Sanborn® Map

1992

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1992

Certification # CE9D-41AF-B0B3



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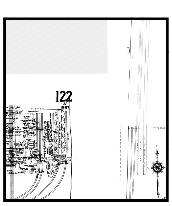

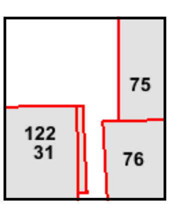

Volume 48, Sheet 122
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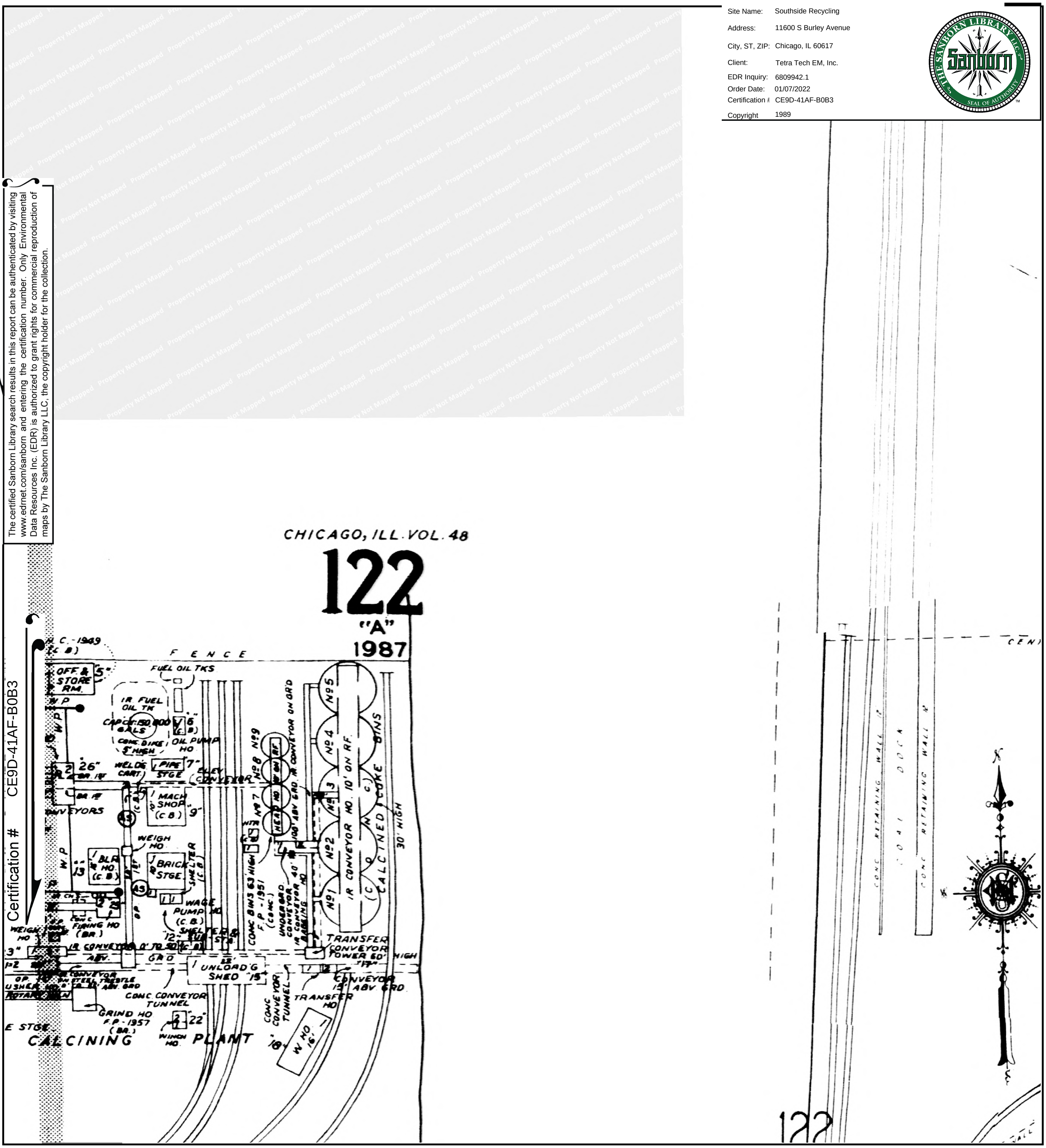
Volume 48, Sheet 75
Volume 48, Sheet 31

N

Certified Sanborn® Map

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1989

Certification # CE9D-41AF-B0B3



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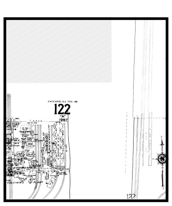

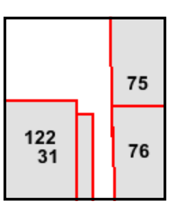

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Volume 48, Sheet 31

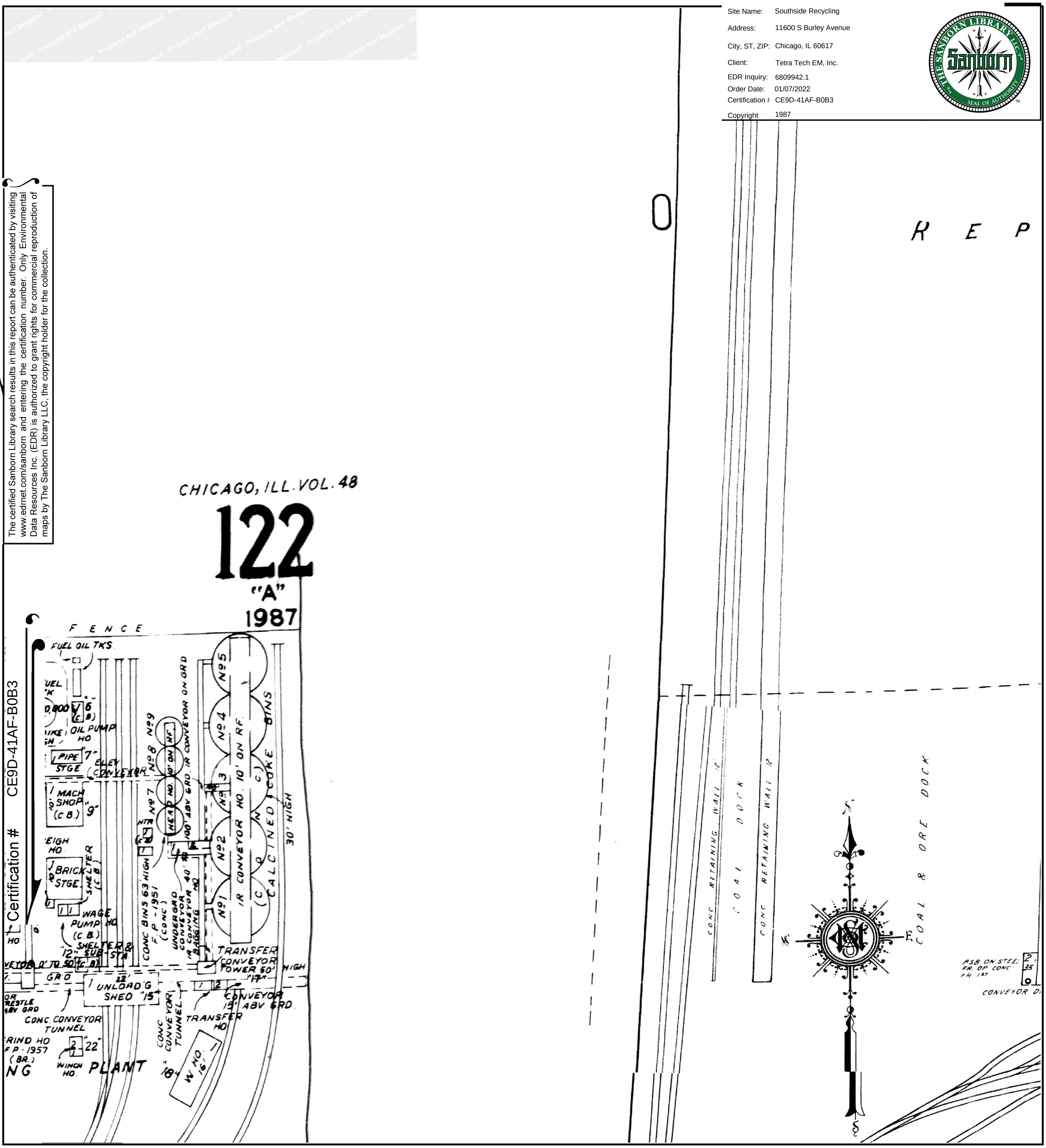
N

Certified Sanborn® Map

1987

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1987

Certification # CE9D-41AF-B0B3



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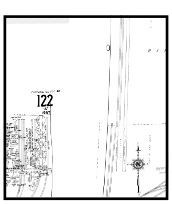

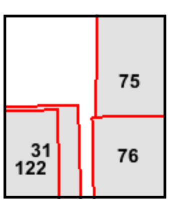

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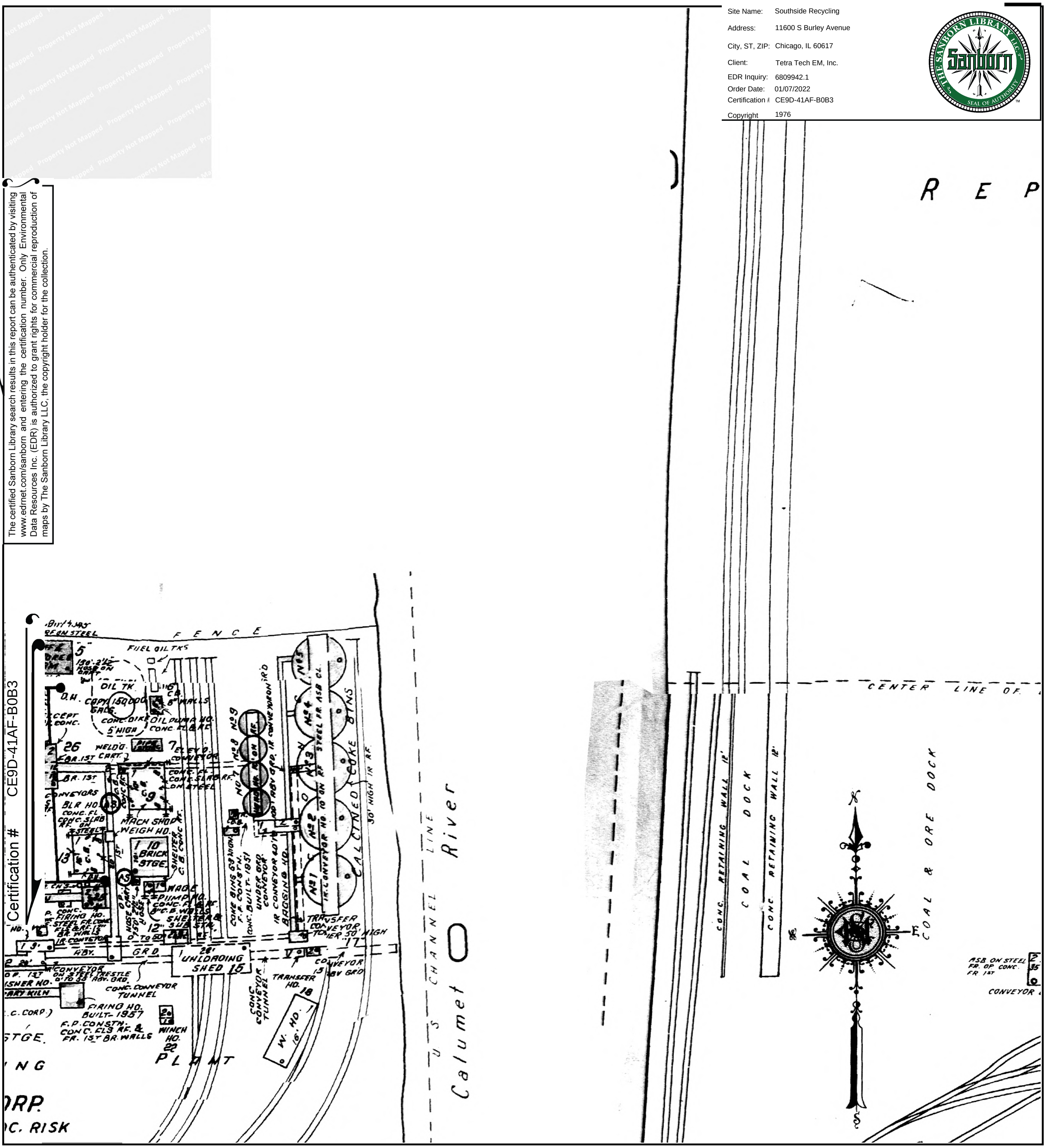
Volume 48, Sheet 76
Volume 48, Sheet 75
Volume 48, Sheet 31

N

Certified Sanborn® Map

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1976

Certification # CE9D-41AF-B0B3



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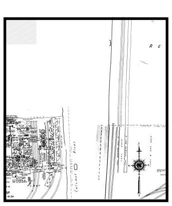

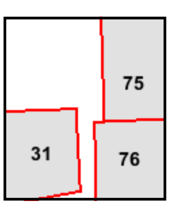

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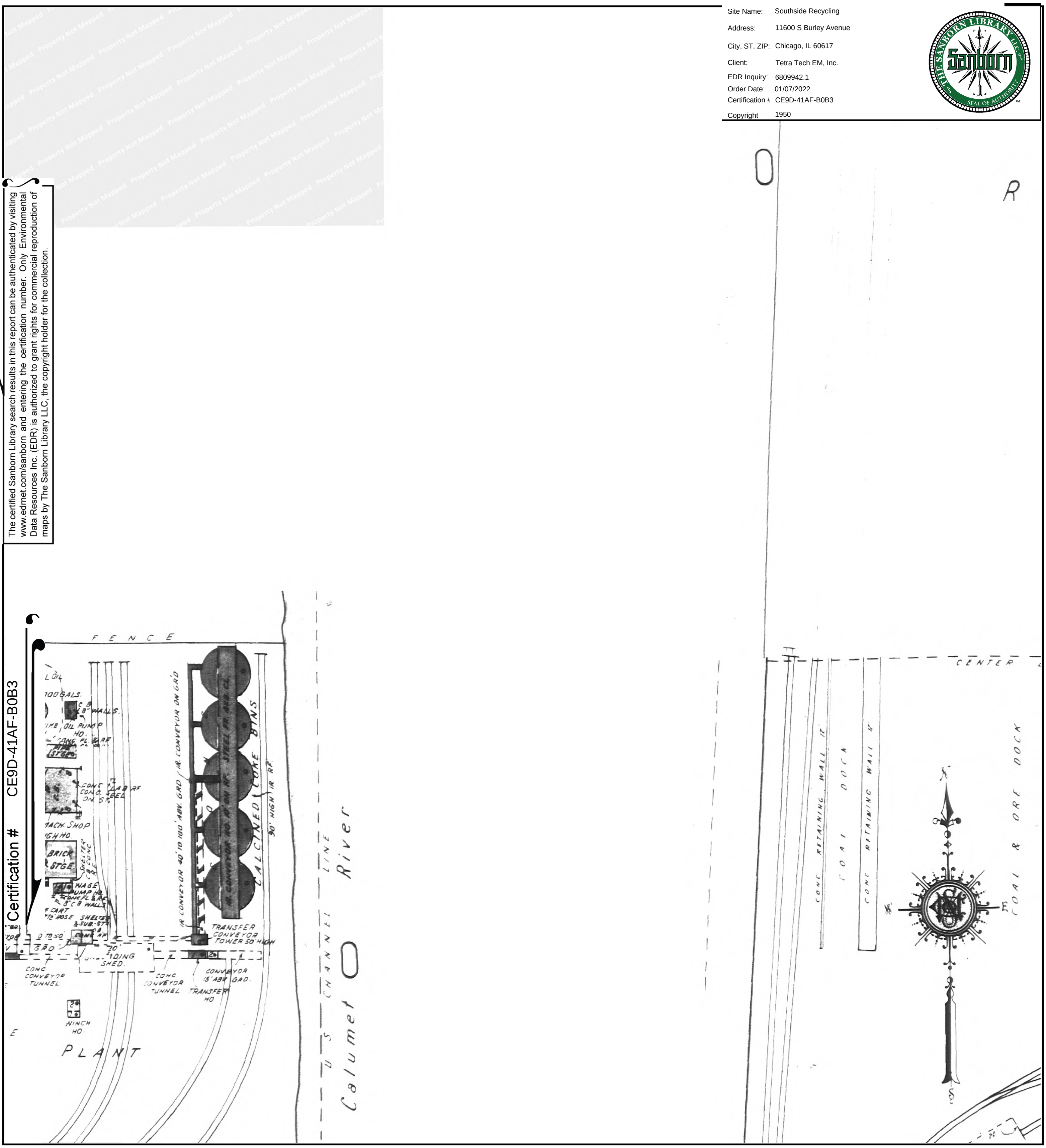
Certified Sanborn® Map

1950

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1950

Certification # CE9D-41AF-B0B3



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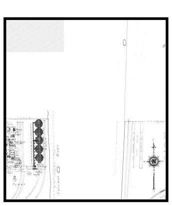

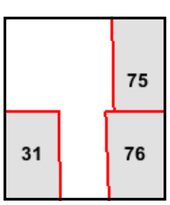

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Volume 48, Sheet 76
Volume 48, Sheet 75

0 Feet 150 300 600

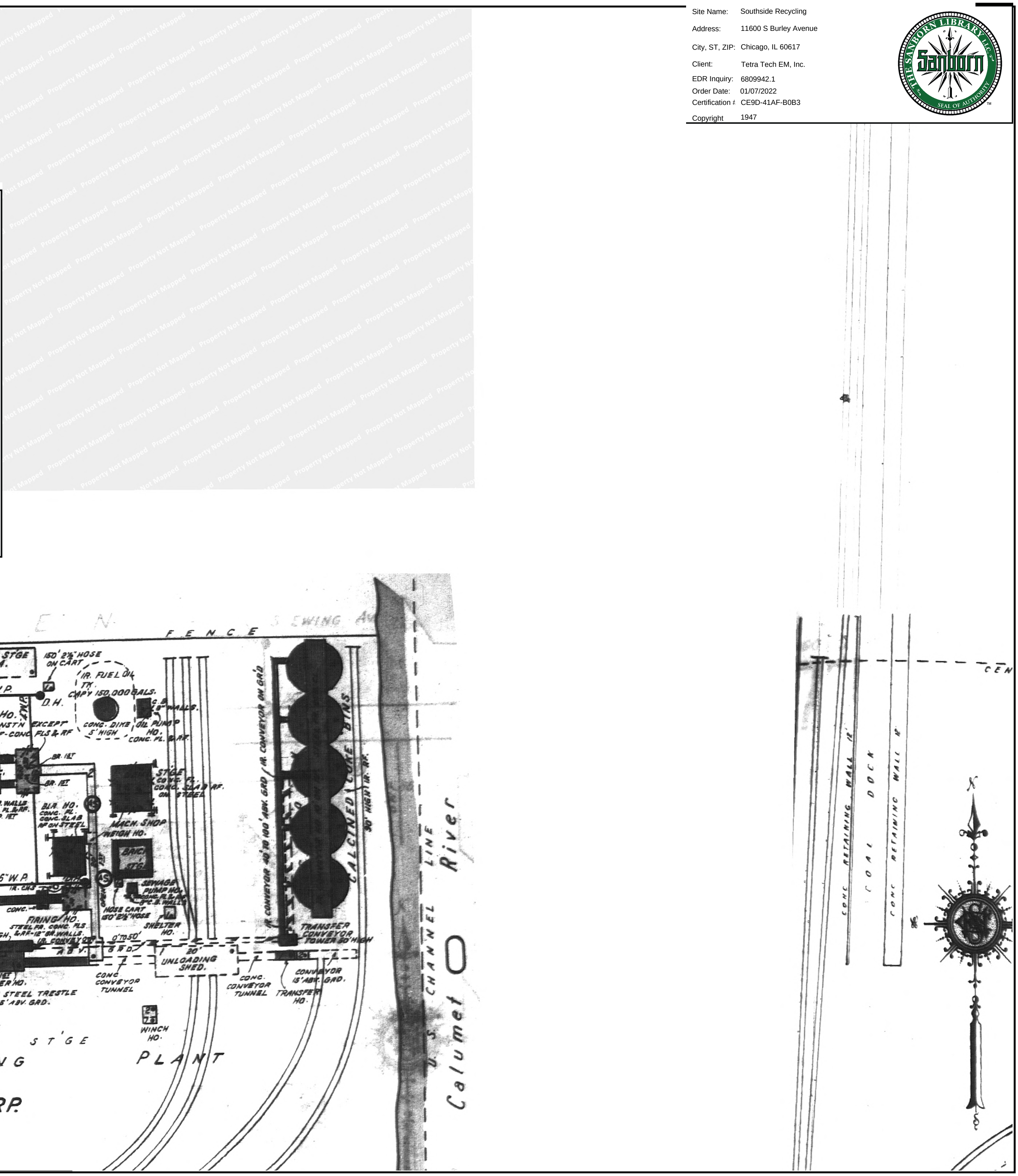
N

Certified Sanborn® Map

1947

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1947

Certification # CE9D-41AF-B0B3



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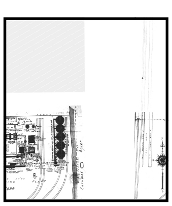
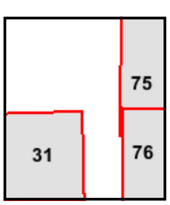




Volume 48, Sheet 76
Volume 48, Sheet 75
Volume 48, Sheet 31

0 Feet 150 300 600

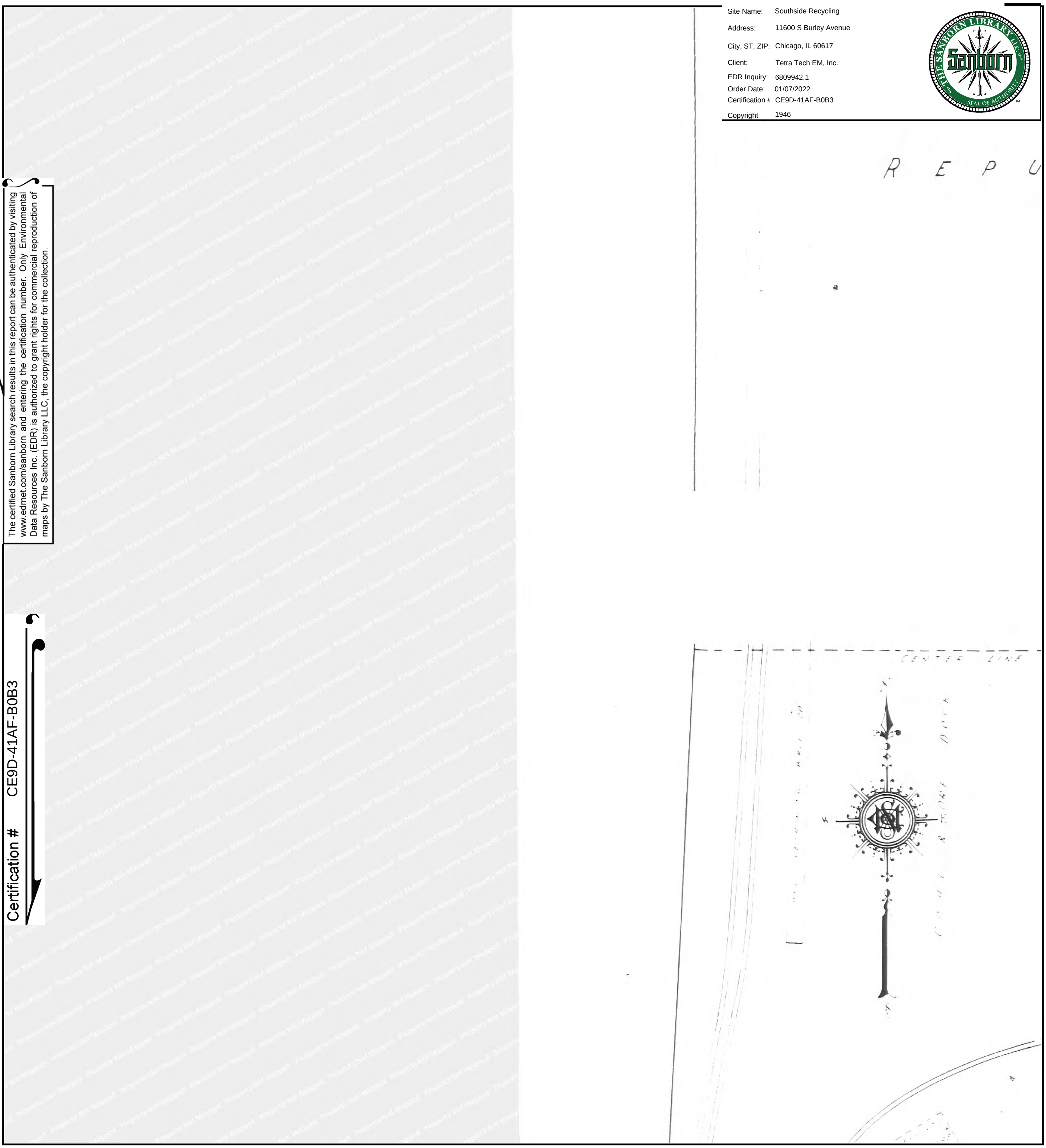
N

Certified Sanborn® Map

1946

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1946

Certification # CE9D-41AF-B0B3



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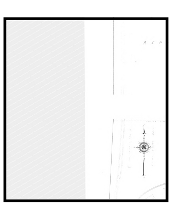

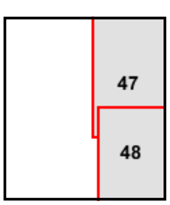

Volume F, Sheet 48
Volume F, Sheet 47

Southside Recycling

11600 S Burley Avenue

Chicago, IL 60617

Inquiry Number: 6809942.1

January 07, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/07/22

Site Name:

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617
EDR Inquiry # 6809942.1

Client Name:

Tetra Tech EM, Inc.
1 South Wacker Drive, 37th Floor
Chicago, IL 60606
Contact: Stacey Durley

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Tetra Tech EM, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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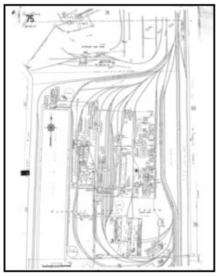
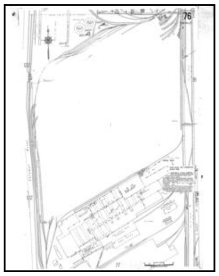
Sanborn Sheet Key

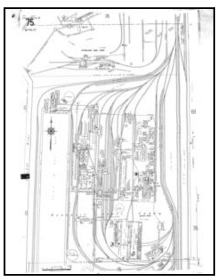
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

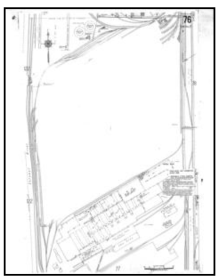
2004 Source Sheets


Volume 48, Sheet 75
2004

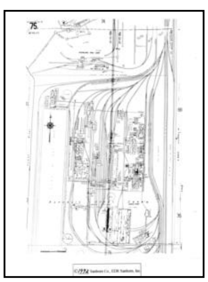

Volume 48, Sheet 76
2004

2002 Source Sheets


Volume 48, Sheet 75
2002


Volume 48, Sheet 76
2002

1992 Source Sheets


Volume 48, Sheet 75
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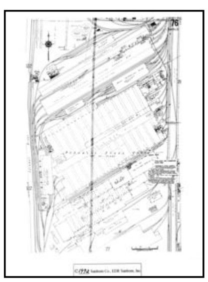
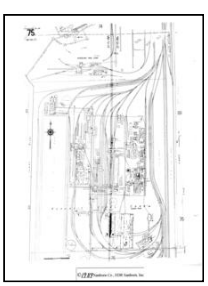

Volume 48, Sheet 76
1992

1989 Source Sheets

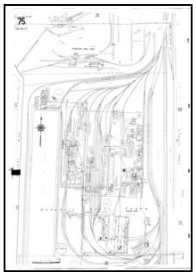

Volume 48, Sheet 75
1989


Volume 48, Sheet 76
1989

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

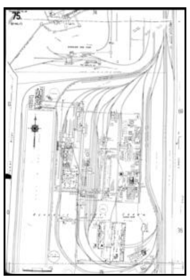
1987 Source Sheets



Volume 48, Sheet 75
1987

Volume 48, Sheet 76
1987

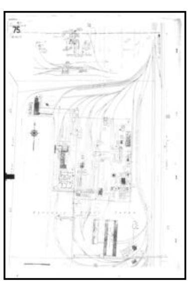
1976 Source Sheets



Volume 48, Sheet 75
1976

Volume 48, Sheet 76
1976

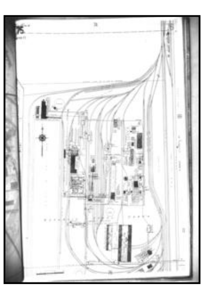
1950 Source Sheets



Volume 48, Sheet 75
1950

Volume 48, Sheet 76
1950

1947 Source Sheets



Volume 48, Sheet 75
1947

Volume 48, Sheet 76
1947

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1946 Source Sheets

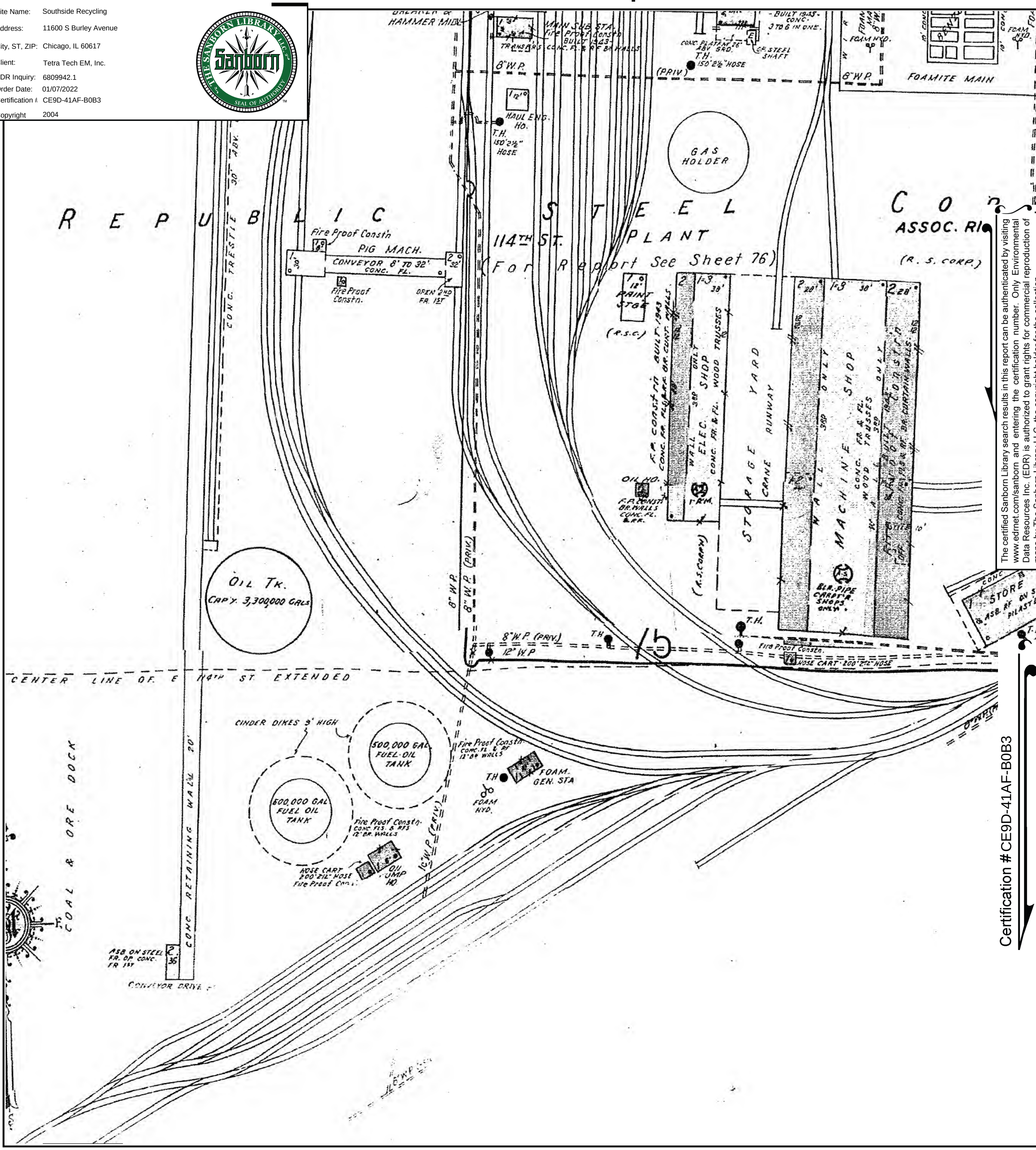
Volume F, Sheet 47
1946

Volume F, Sheet 48
1946

Certified Sanborn® Map

2004

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	2004



Certification # CE9D-41AF-B0B3

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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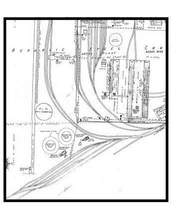

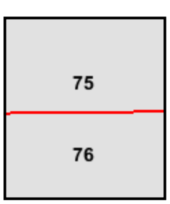

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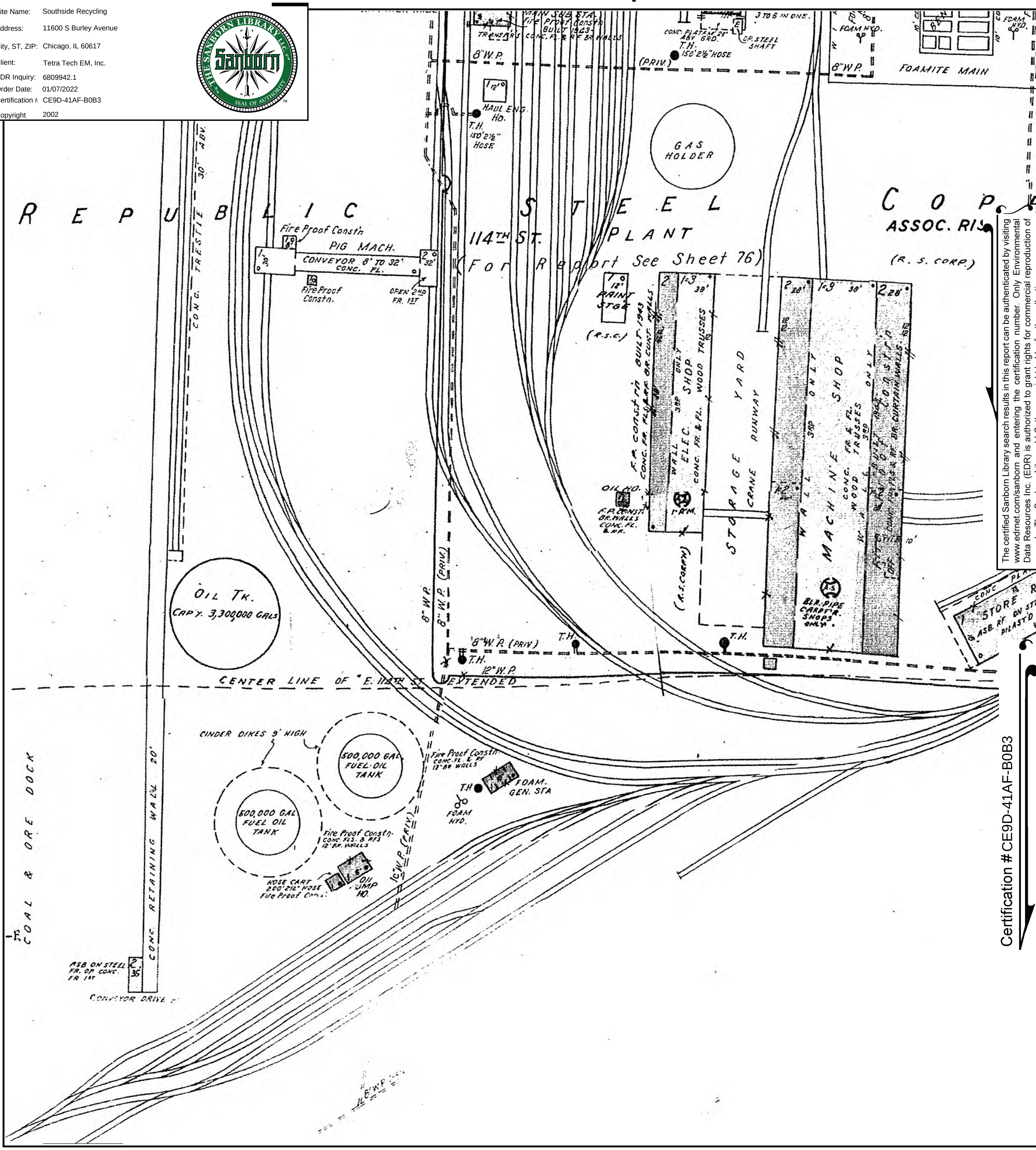
Volume 48, Sheet 75

N

Certified Sanborn® Map

2002

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	2002



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Outlined areas indicate map sheets within the collection.

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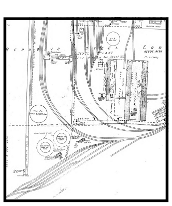

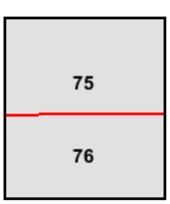

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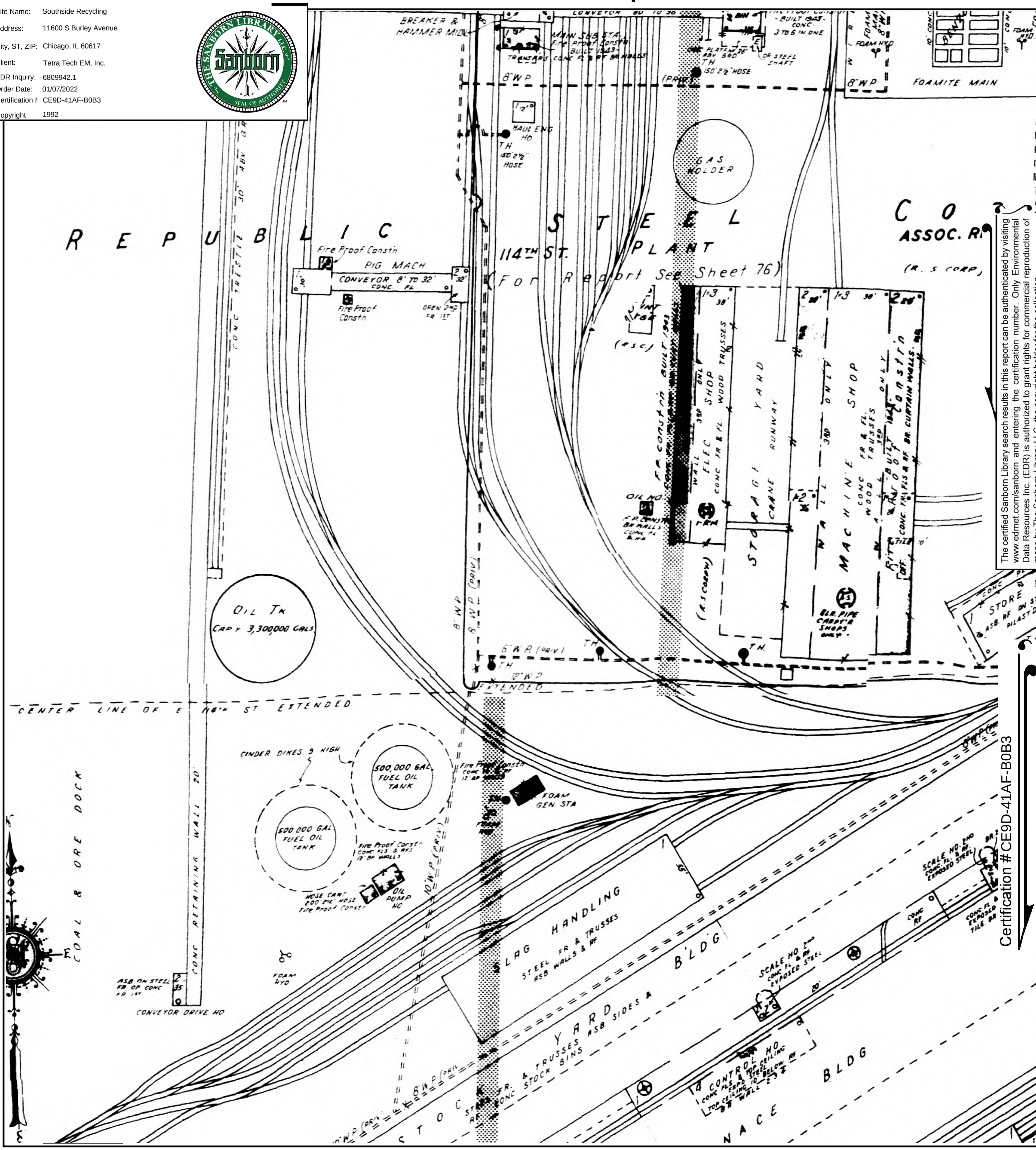
Certified Sanborn® Map

1992

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1992



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Certification # CE9D-41AF-B0B3

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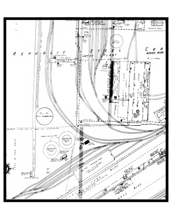

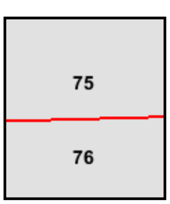

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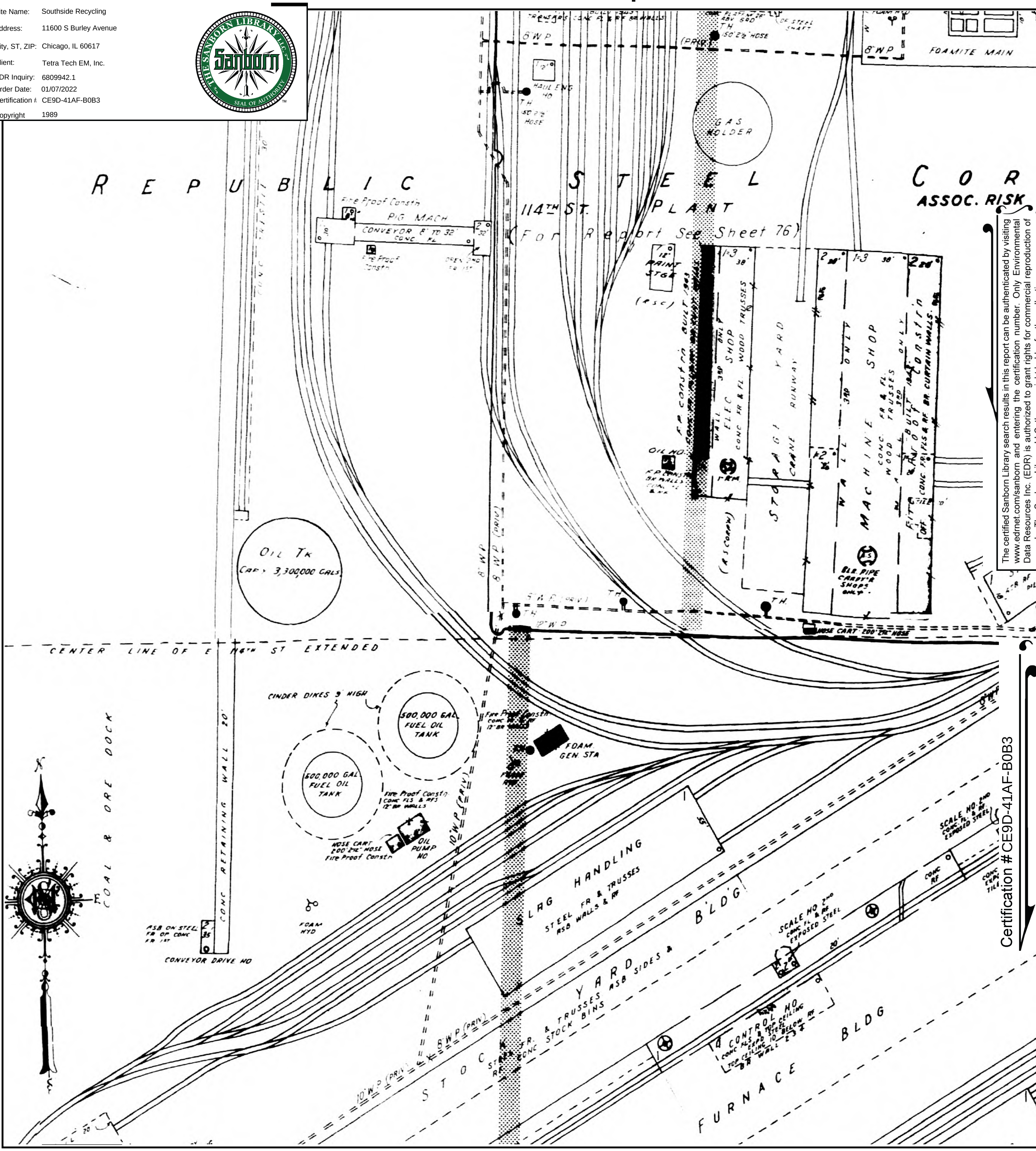
N

Certified Sanborn® Map

1989

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1989



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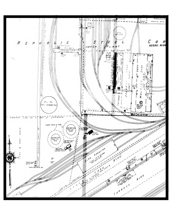

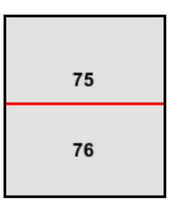

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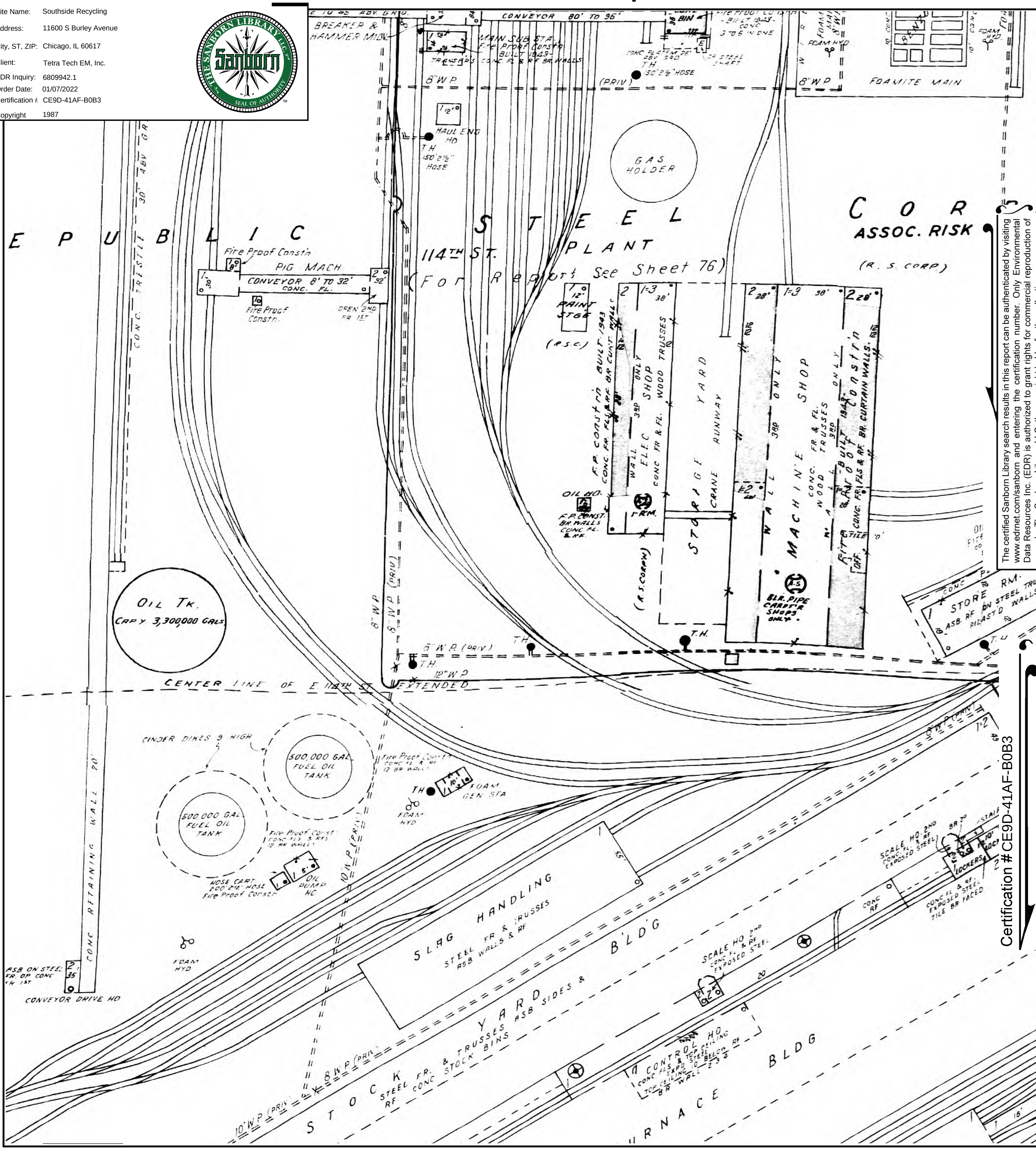
Certified Sanborn® Map

1987

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1987



Certification # CE9D-41AF-B0B3

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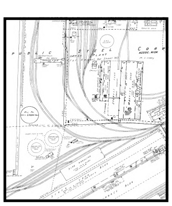
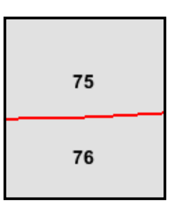




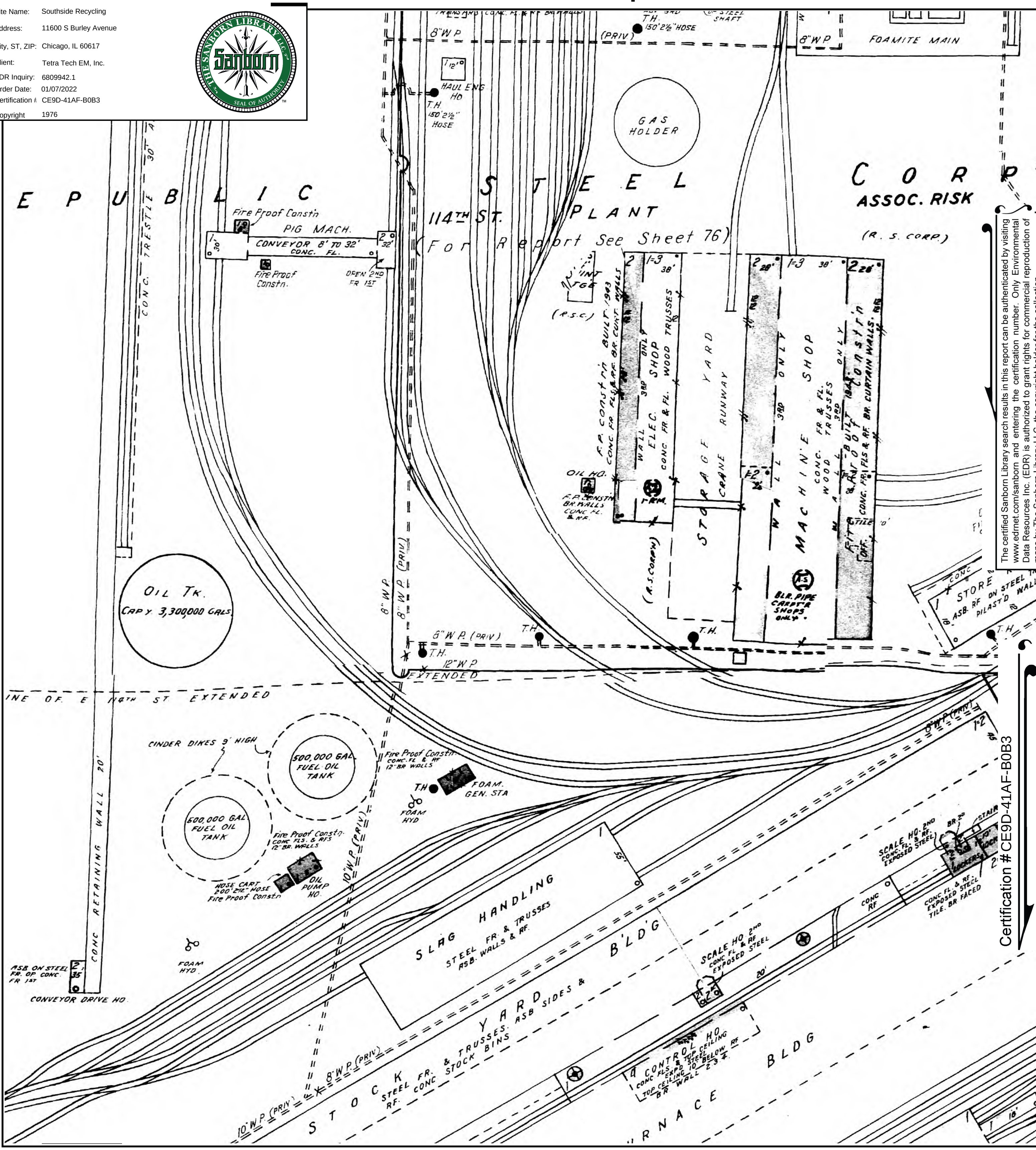
Volume 48, Sheet 76
Volume 48, Sheet 75

N

Certified Sanborn® Map

1976

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1976



Certification # CE9D-41AF-B0B3

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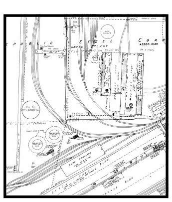

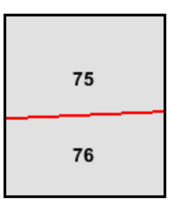

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N

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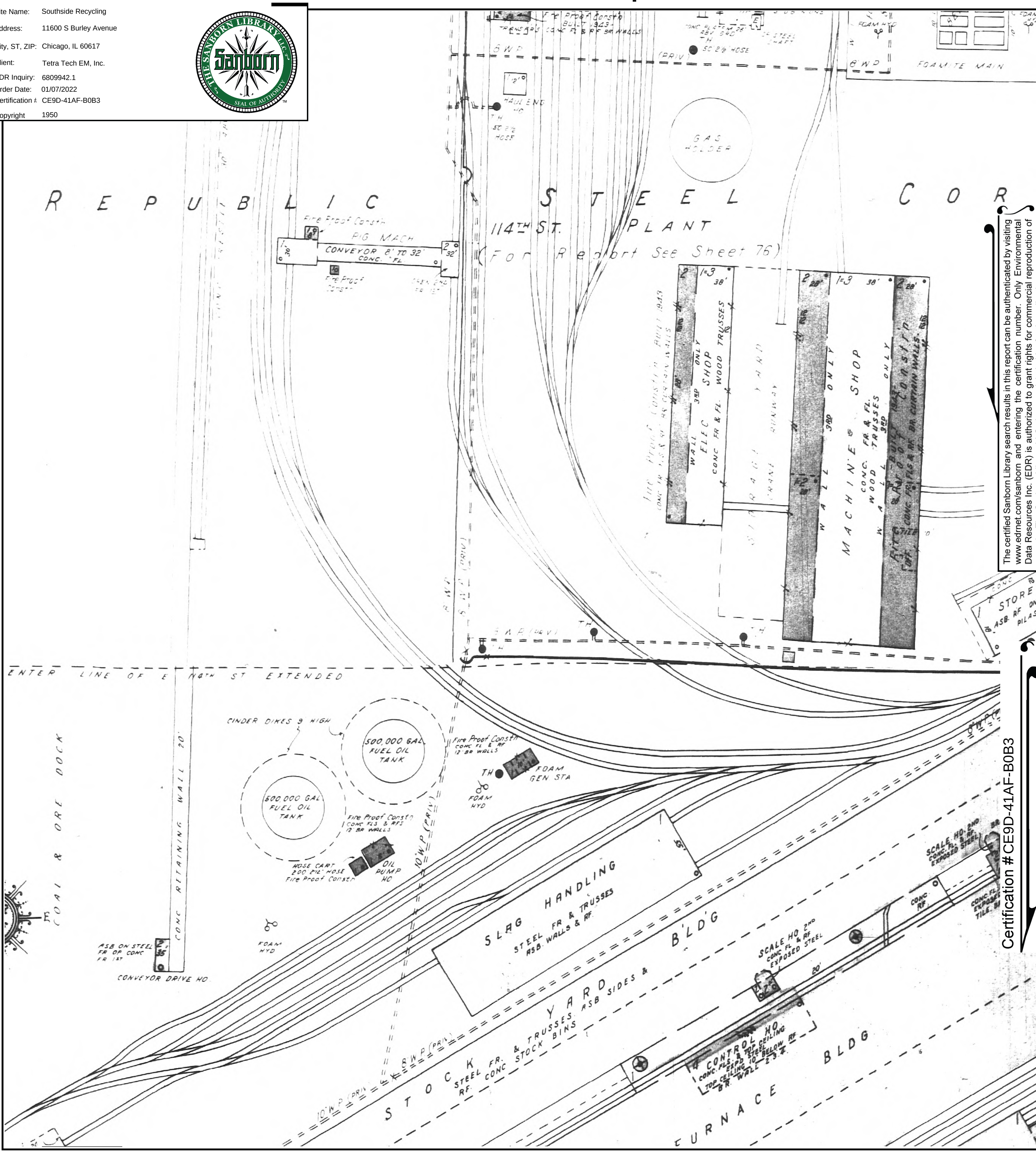
1950

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1950



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0 Feet 150 300 600

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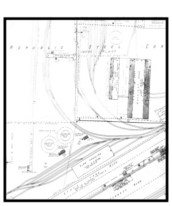

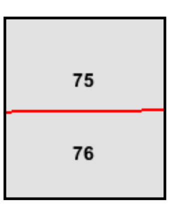

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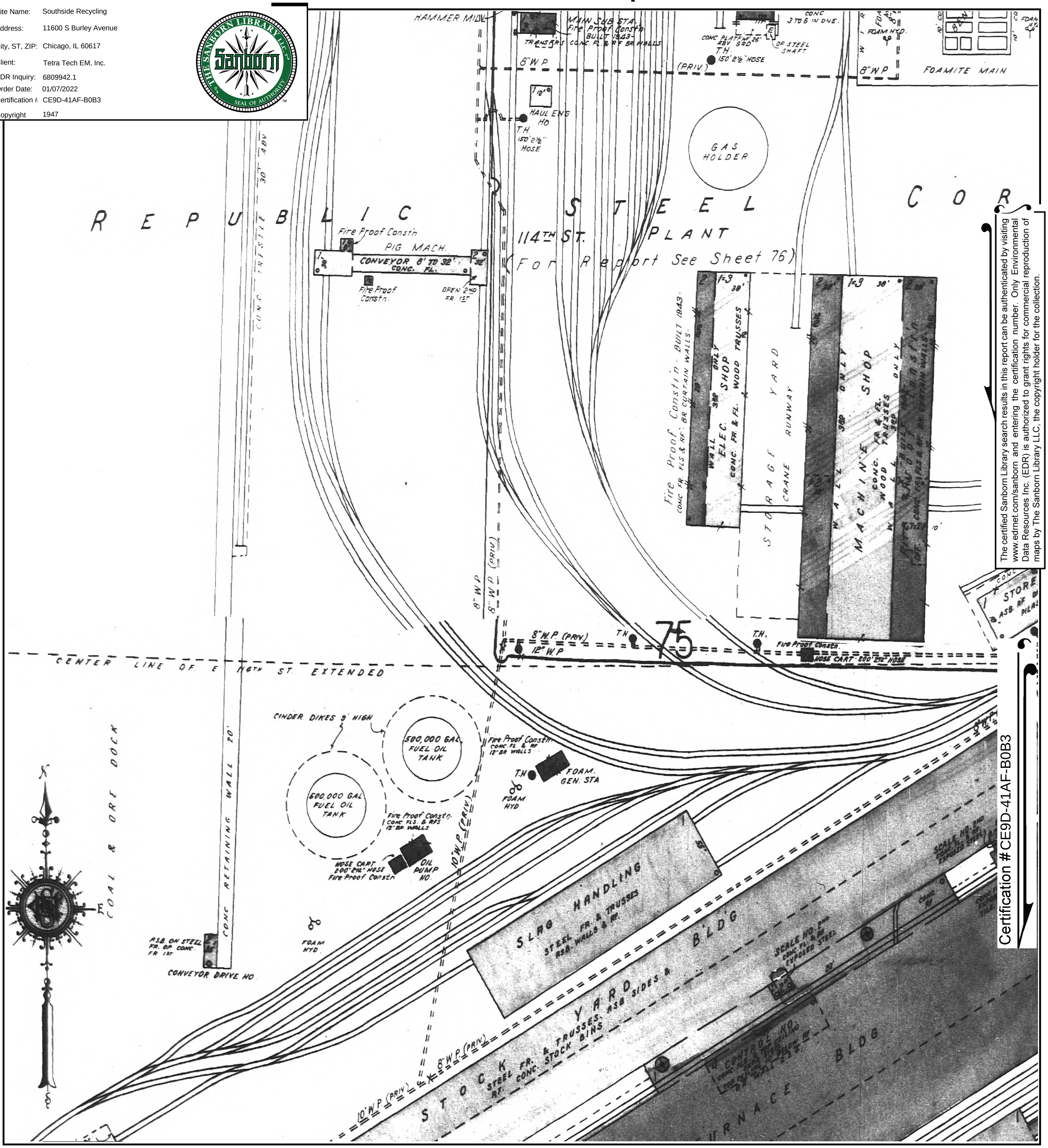
Certified Sanborn® Map

1947

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1947



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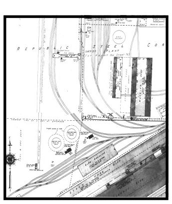

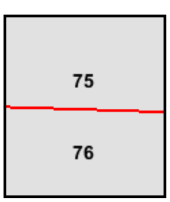

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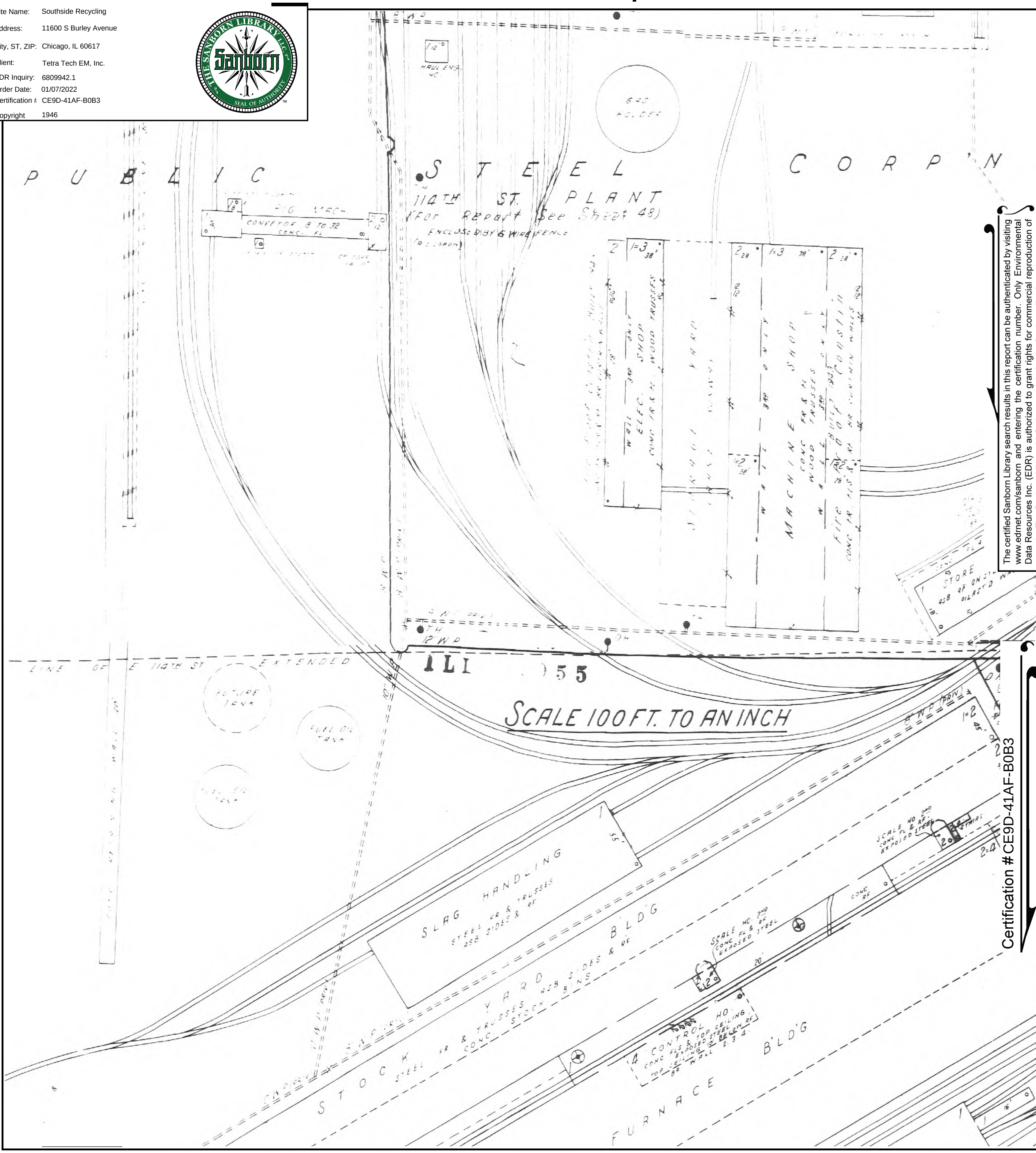
0 Feet 150 300 600

Certified Sanborn® Map

1946

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1946



Certification # CE9D-41AF-B0B3

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0 Feet 150 300 600

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Volume F, Sheet 47

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617

Inquiry Number: 6809942.1
January 07, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/07/22

Site Name:

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617
EDR Inquiry # 6809942.1

Client Name:

Tetra Tech EM, Inc.
1 South Wacker Drive, 37th Floor
Chicago, IL 60606
Contact: Stacey Durley

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Certified Sanborn Results:

Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946

Sanborn® Library search results
Certification #: CE9D-41AF-B0B3

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- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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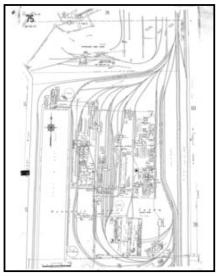
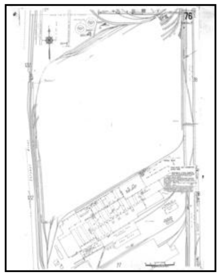
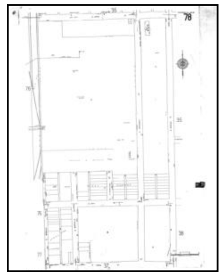
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

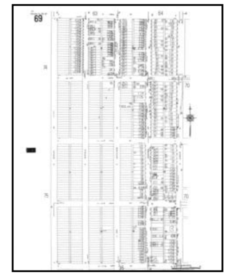
2004 Source Sheets


Volume 48, Sheet 75
2004

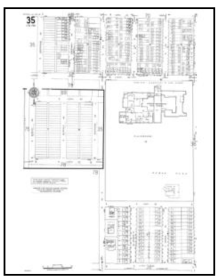

Volume 48, Sheet 76
2004


Volume 48, Sheet 78
2004


Volume 48, Sheet 35
2004


Volume 48, Sheet 69
2004

2002 Source Sheets


Volume 48, Sheet 35
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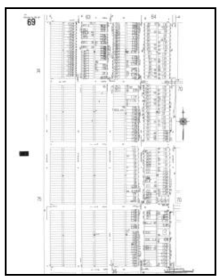
Volume 48, Sheet 69
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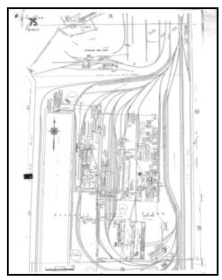
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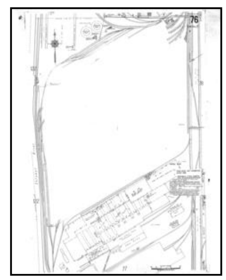
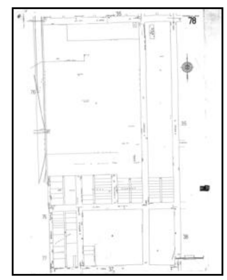
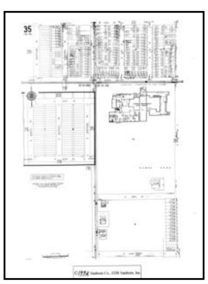
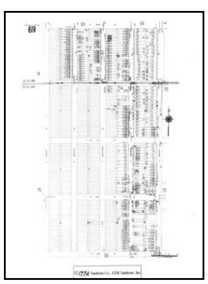
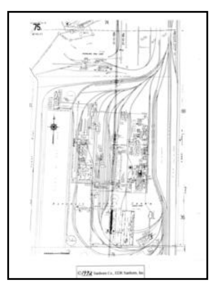

Volume 48, Sheet 76
2002


Volume 48, Sheet 78
2002

1992 Source Sheets


Volume 48, Sheet 35
1992


Volume 48, Sheet 69
1992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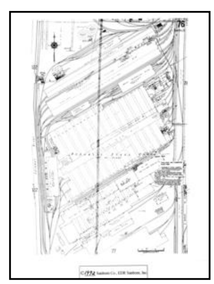
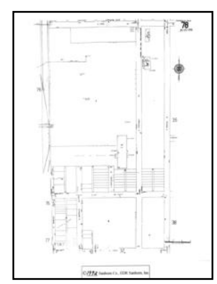
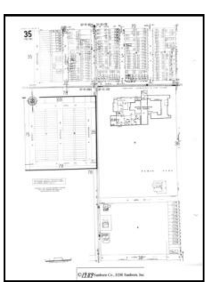
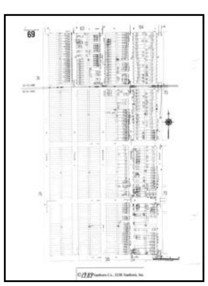
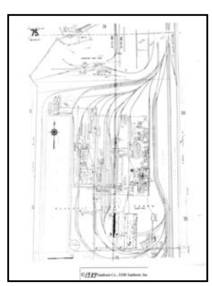

Volume 48, Sheet 76
1992


Volume 48, Sheet 78
1992

1989 Source Sheets


Volume 48, Sheet 35
1989


Volume 48, Sheet 69
1989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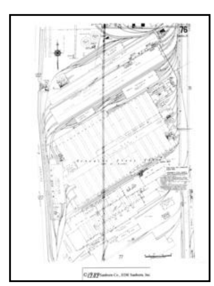
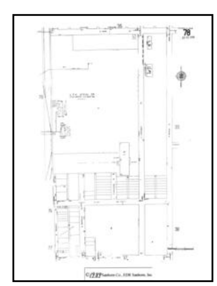
1989


Volume 48, Sheet 76
1989


Volume 48, Sheet 78
1989

Sanborn Sheet Key

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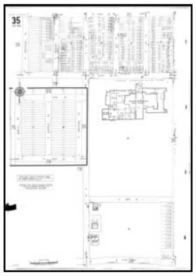
1987 Source Sheets


Volume 48, Sheet 35
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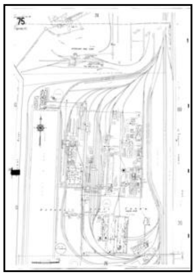
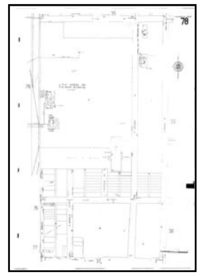
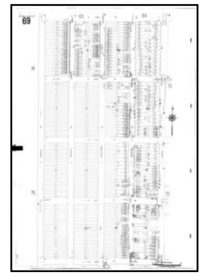
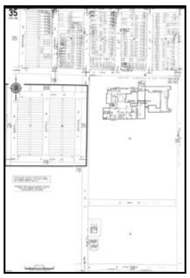

Volume 48, Sheet 75
1987

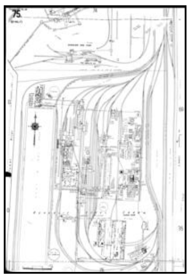

Volume 48, Sheet 76
1987


Volume 48, Sheet 78
1987

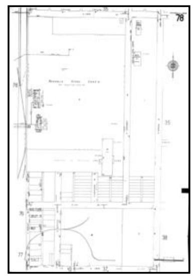

Volume 48, Sheet 69
1987

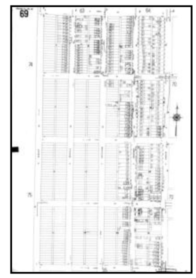
1976 Source Sheets


Volume 48, Sheet 35
1976

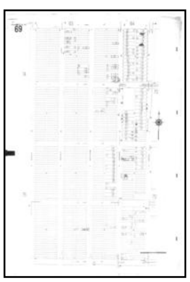

Volume 48, Sheet 75
1976

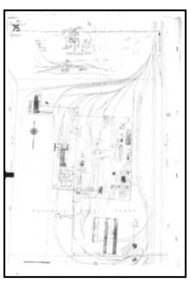

Volume 48, Sheet 76
1976


Volume 48, Sheet 78
1976


Volume 48, Sheet 69
1976

1950 Source Sheets

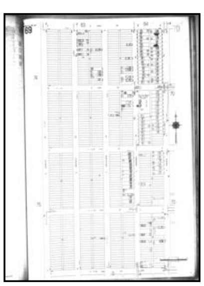

Volume 48, Sheet 69
1950

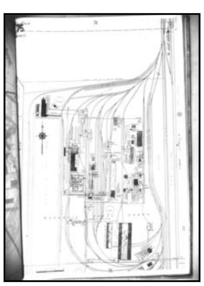

Volume 48, Sheet 75
1950


Volume 48, Sheet 76
1950

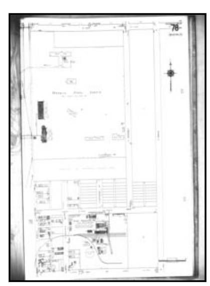

Volume 48, Sheet 78
1950

1947 Source Sheets


Volume 48, Sheet 69
1947


Volume 48, Sheet 75
1947


Volume 48, Sheet 76
1947


Volume 48, Sheet 78
1947

Sanborn Sheet Key

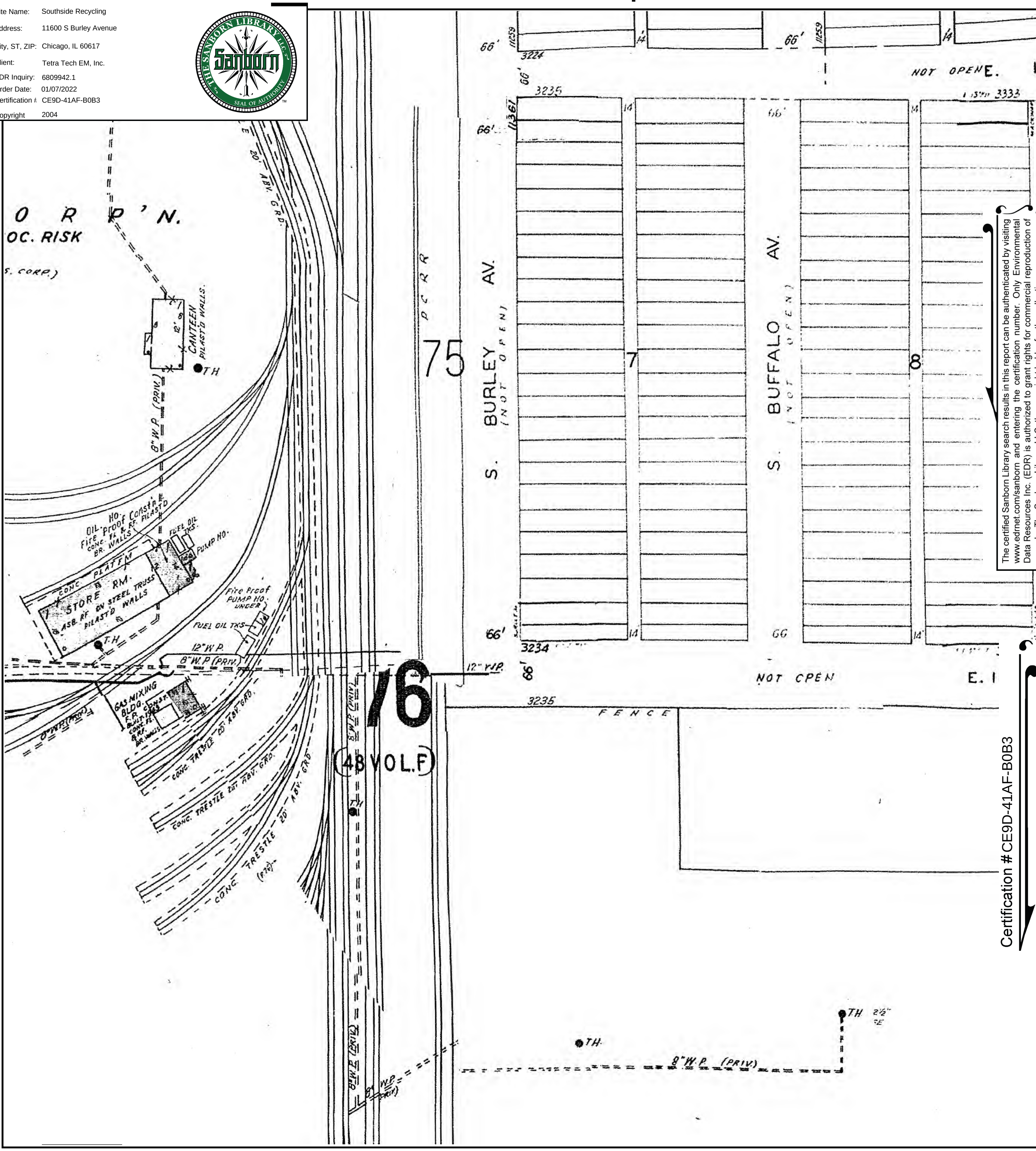
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1946 Source Sheets

Volume F, Sheet 47
1946

Volume F, Sheet 48
1946

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 2004



Certification # CE9D-41AF-B0B3

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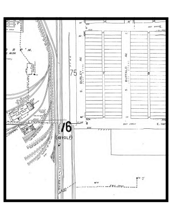
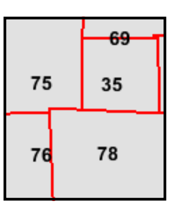
Outlined areas indicate map sheets within the collection.





Volume 48, Sheet 69
Volume 48, Sheet 35
Volume 48, Sheet 78
Volume 48, Sheet 76
Volume 48, Sheet 75

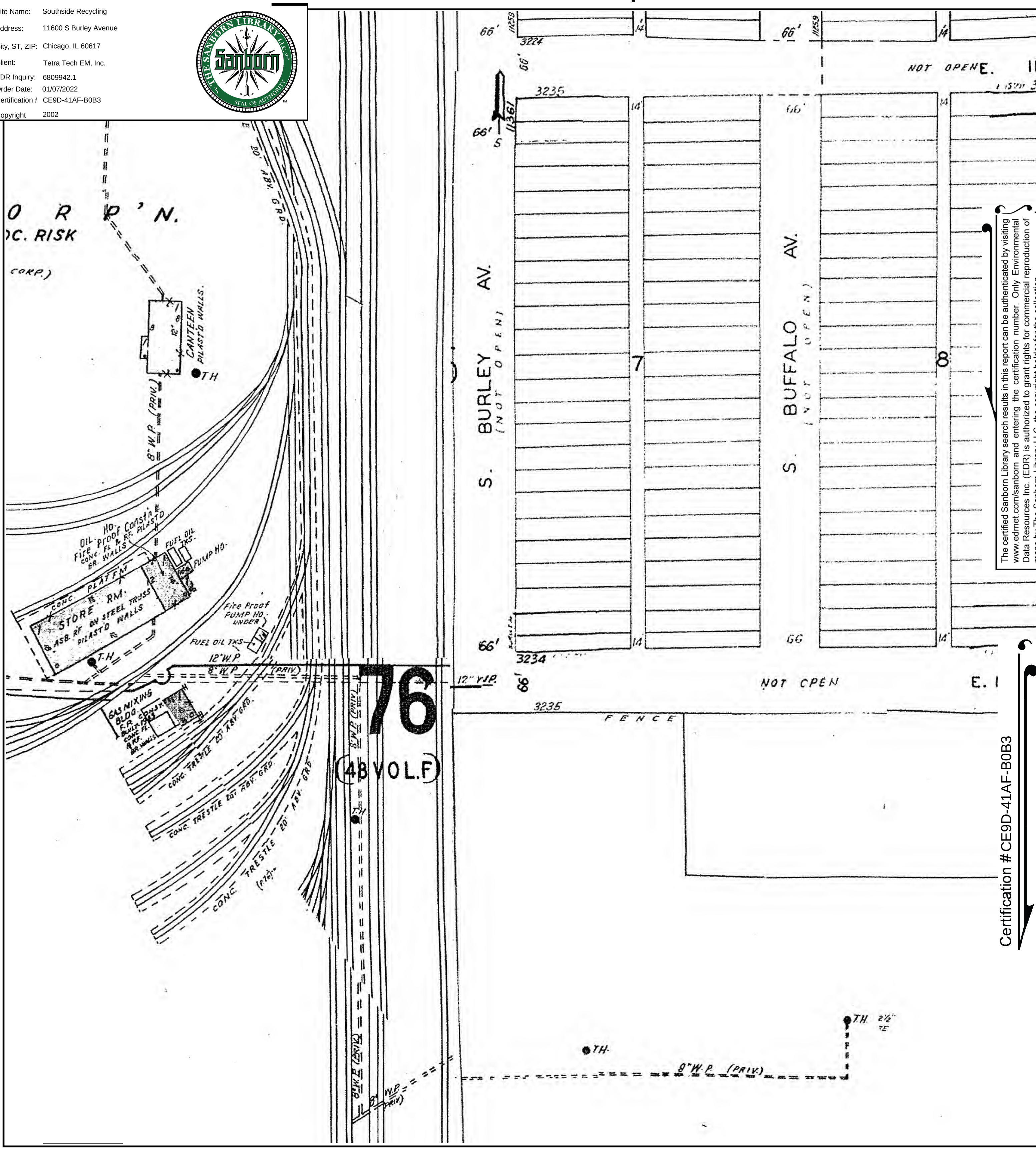
0 Feet 150 300 600

N

Certified Sanborn® Map

2002

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 2002



Certification # CE9D-41AF-B0B3

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Outlined areas indicate map sheets within the collection.

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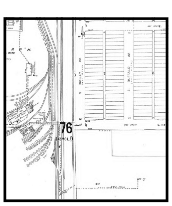
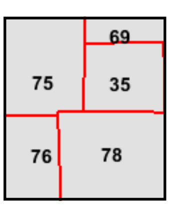


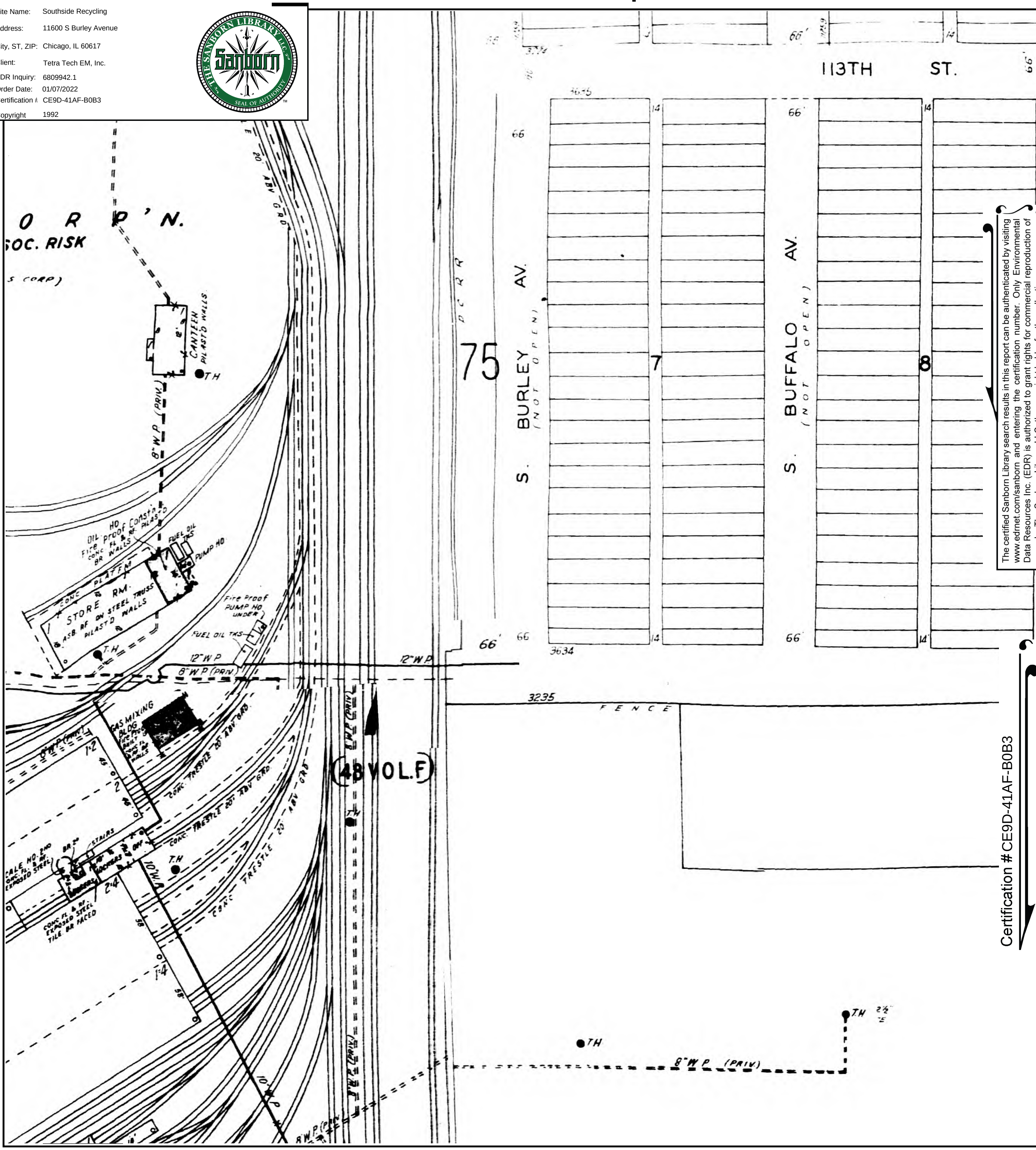


Volume 48, Sheet 78
Volume 48, Sheet 76
Volume 48, Sheet 75
Volume 48, Sheet 69
Volume 48, Sheet 35

Certified Sanborn® Map

1992

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1992



Certification # CE9D-41AF-B0B3

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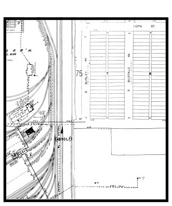
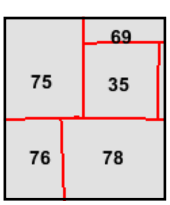
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600





Volume 48, Sheet 78
Volume 48, Sheet 76
Volume 48, Sheet 75
Volume 48, Sheet 69
Volume 48, Sheet 35

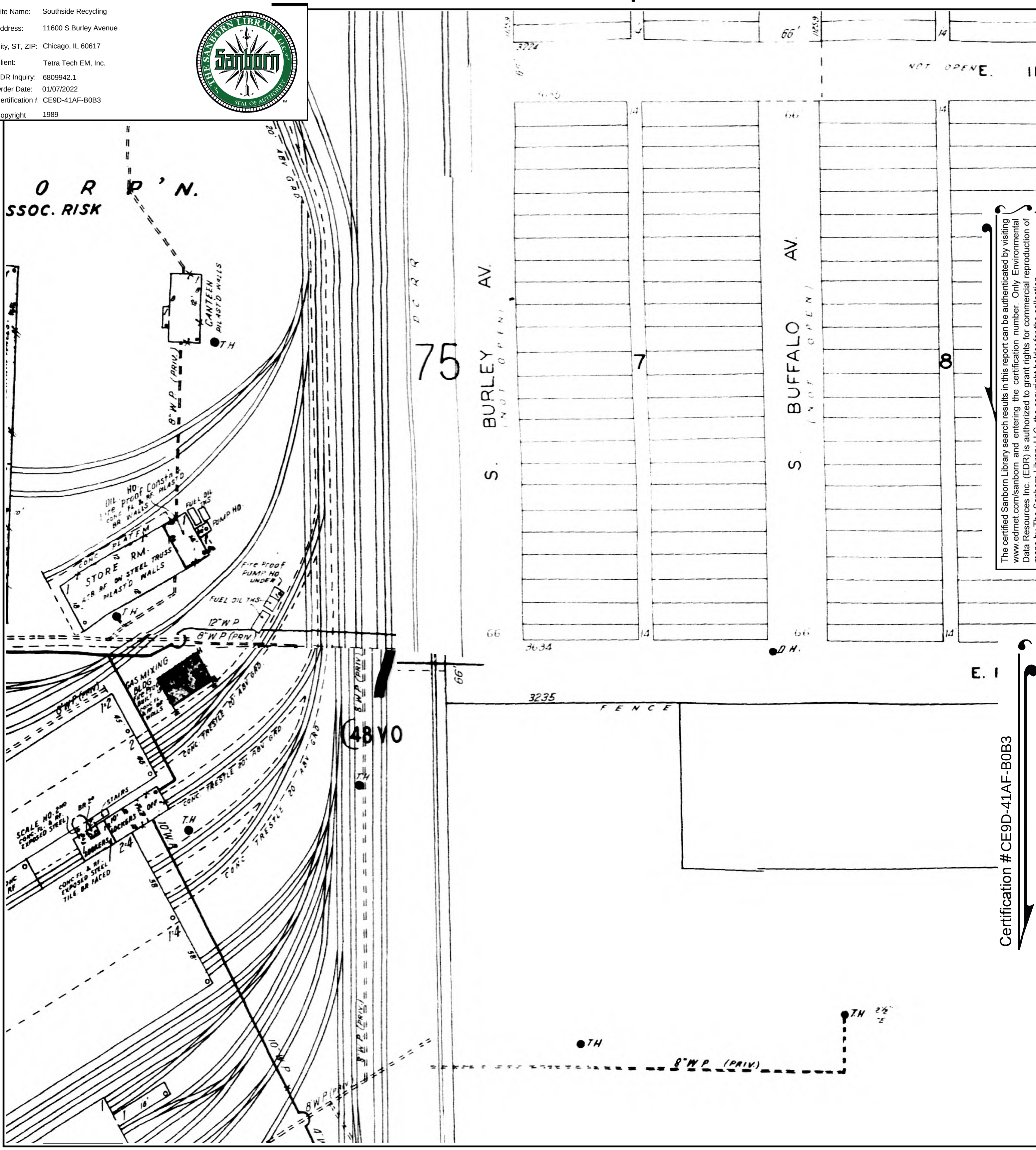
N

EDR®

Certified Sanborn® Map

1989

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1989



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Certification # CE9D-41AF-B0B3

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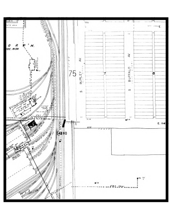
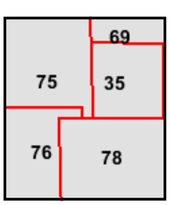




Volume 48, Sheet 78
Volume 48, Sheet 76
Volume 48, Sheet 75
Volume 48, Sheet 69
Volume 48, Sheet 35

0 Feet 150 300 600

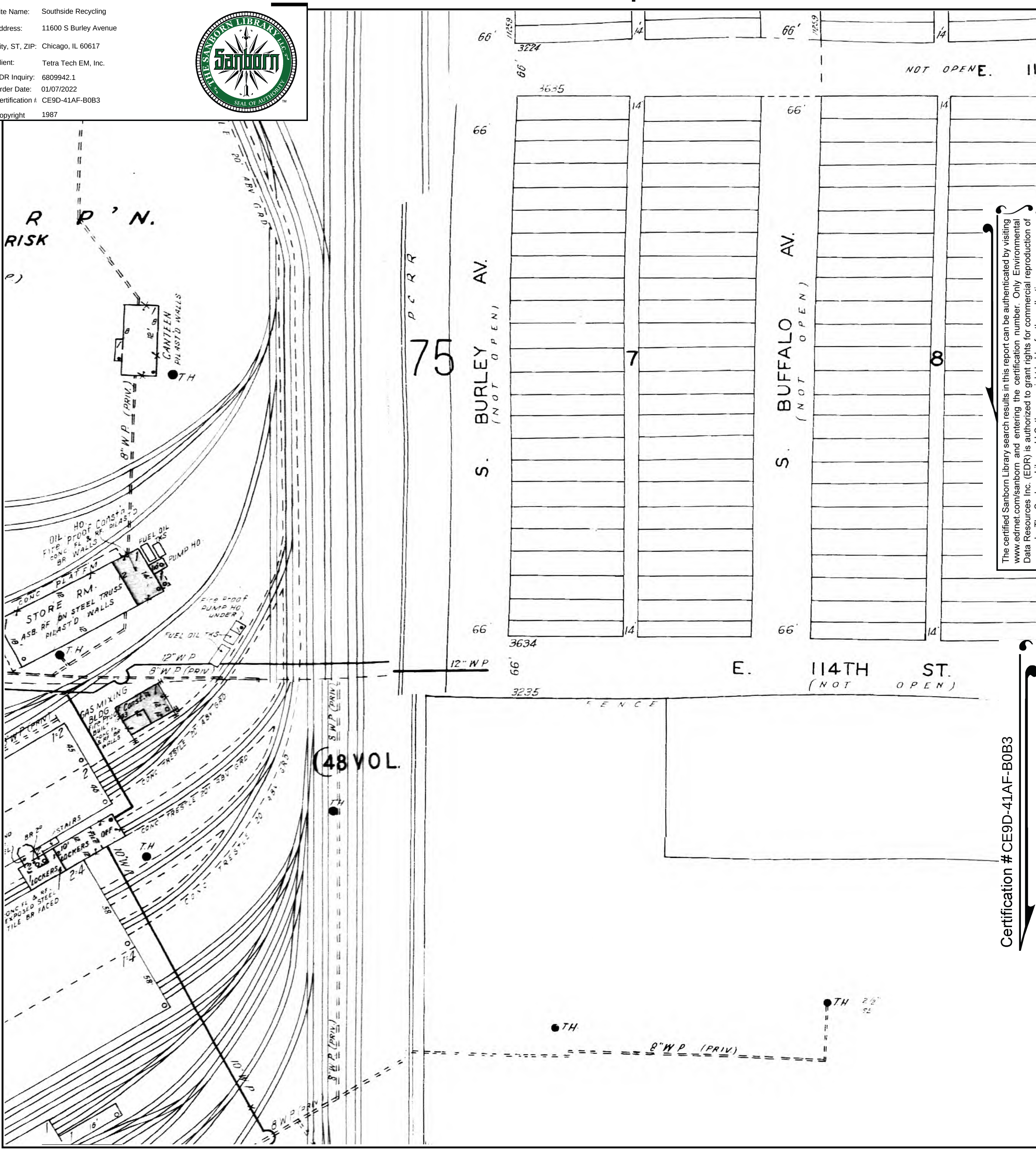
N

EDR®

Certified Sanborn® Map

1987

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1987



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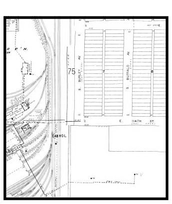
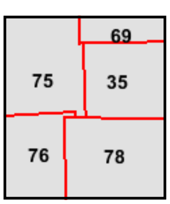




Volume 48, Sheet 69
Volume 48, Sheet 78
Volume 48, Sheet 76
Volume 48, Sheet 75
Volume 48, Sheet 35

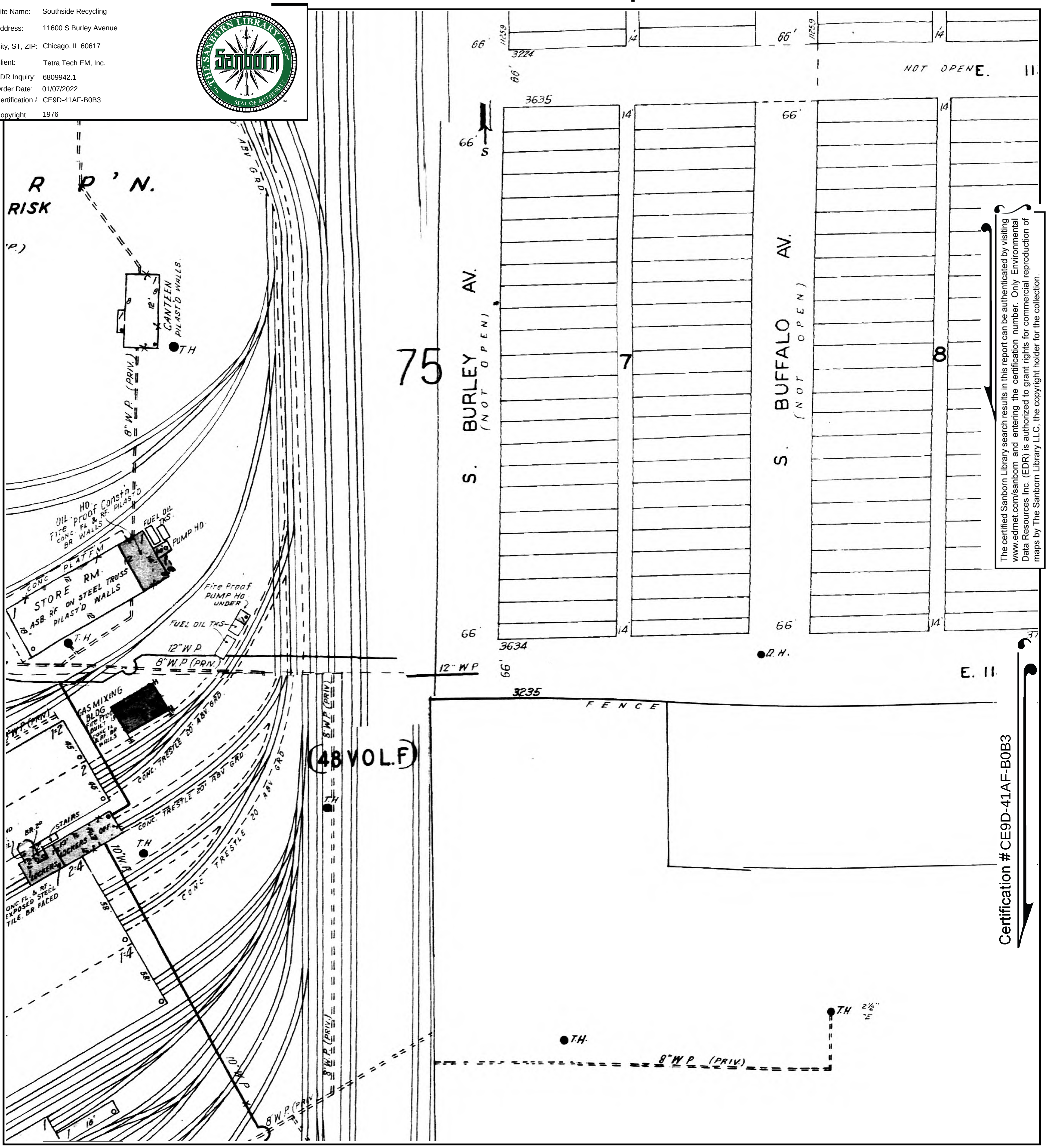
0 Feet 150 300 600

N

Certified Sanborn® Map

1976

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1976



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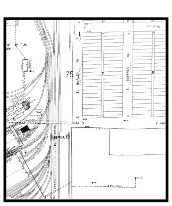
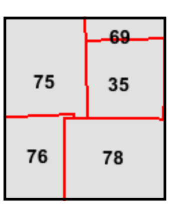




Volume 48, Sheet 69
Volume 48, Sheet 78
Volume 48, Sheet 76
Volume 48, Sheet 75
Volume 48, Sheet 35

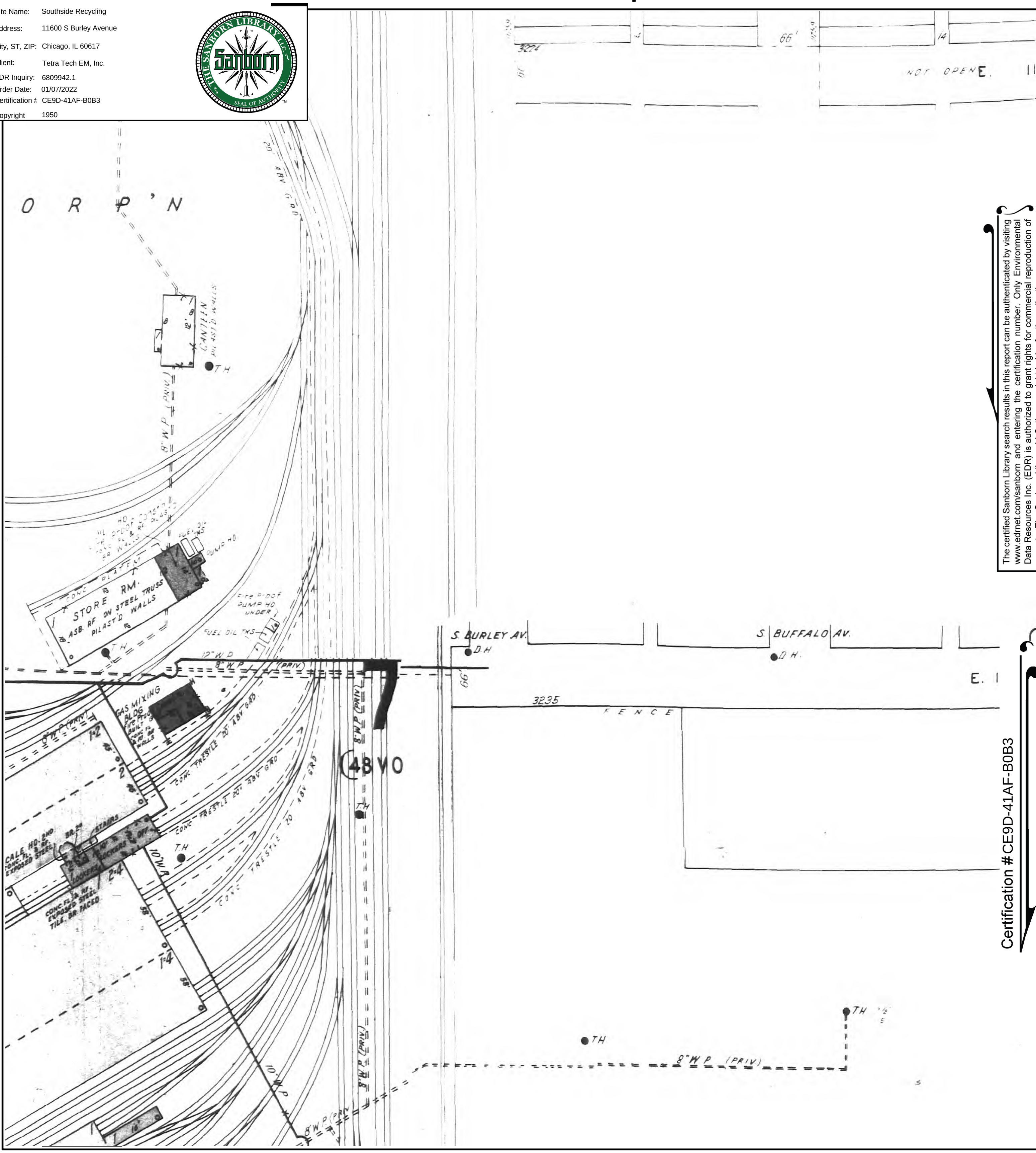
0 Feet 150 300 600

N

Certified Sanborn® Map

1950

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1950



Certification # CE9D-41AF-B0B3

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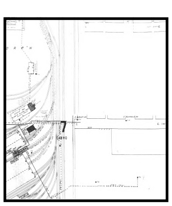
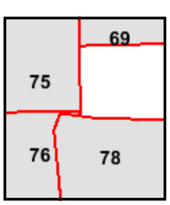




Volume 48, Sheet 78
Volume 48, Sheet 76
Volume 48, Sheet 75
Volume 48, Sheet 69

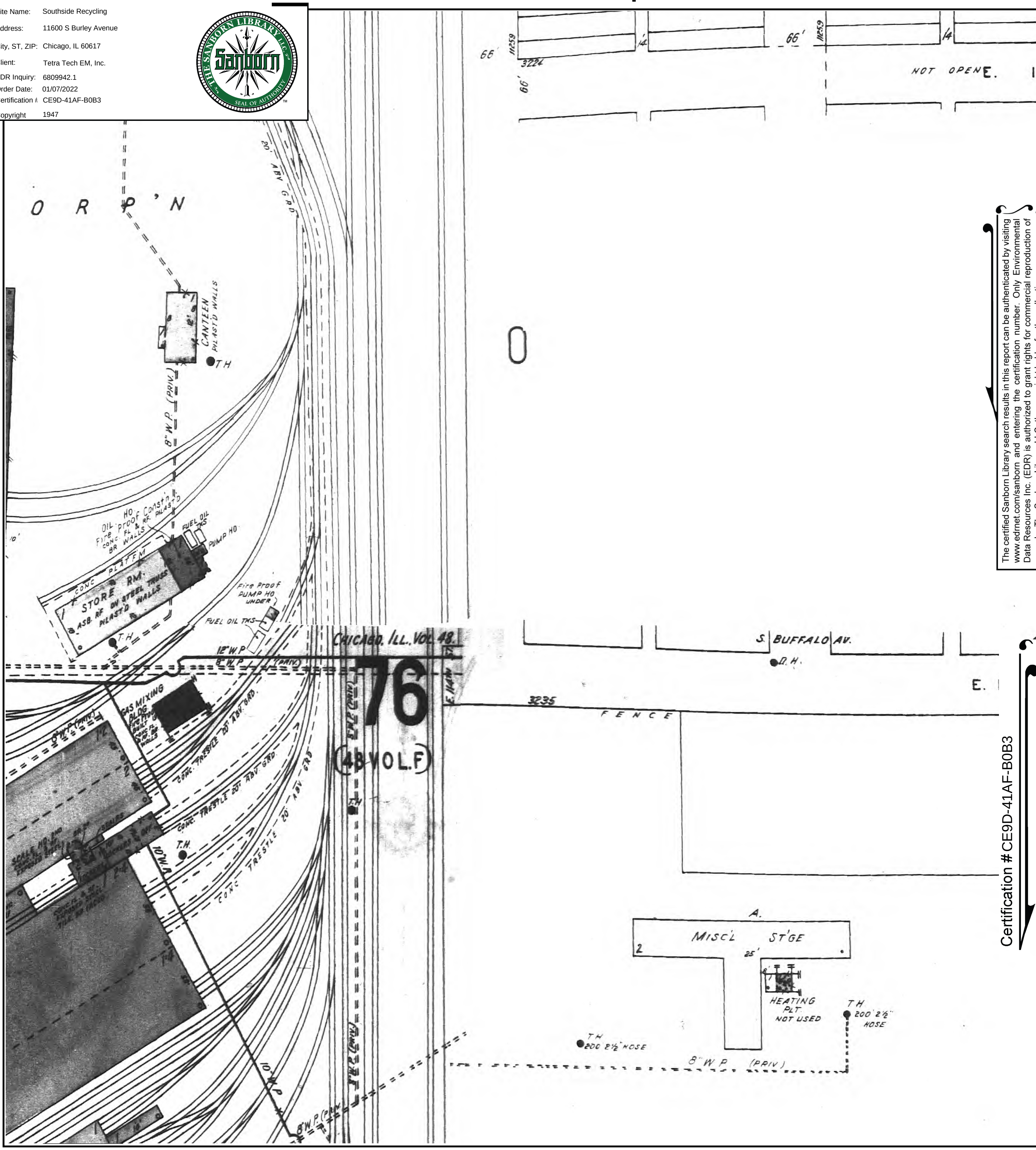
0 Feet 150 300 600

N

Certified Sanborn® Map

1947

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1947



Certification # CE9D-41AF-B0B3

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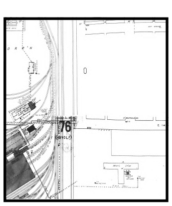
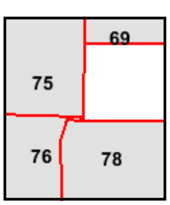
0 Feet 150 300 600





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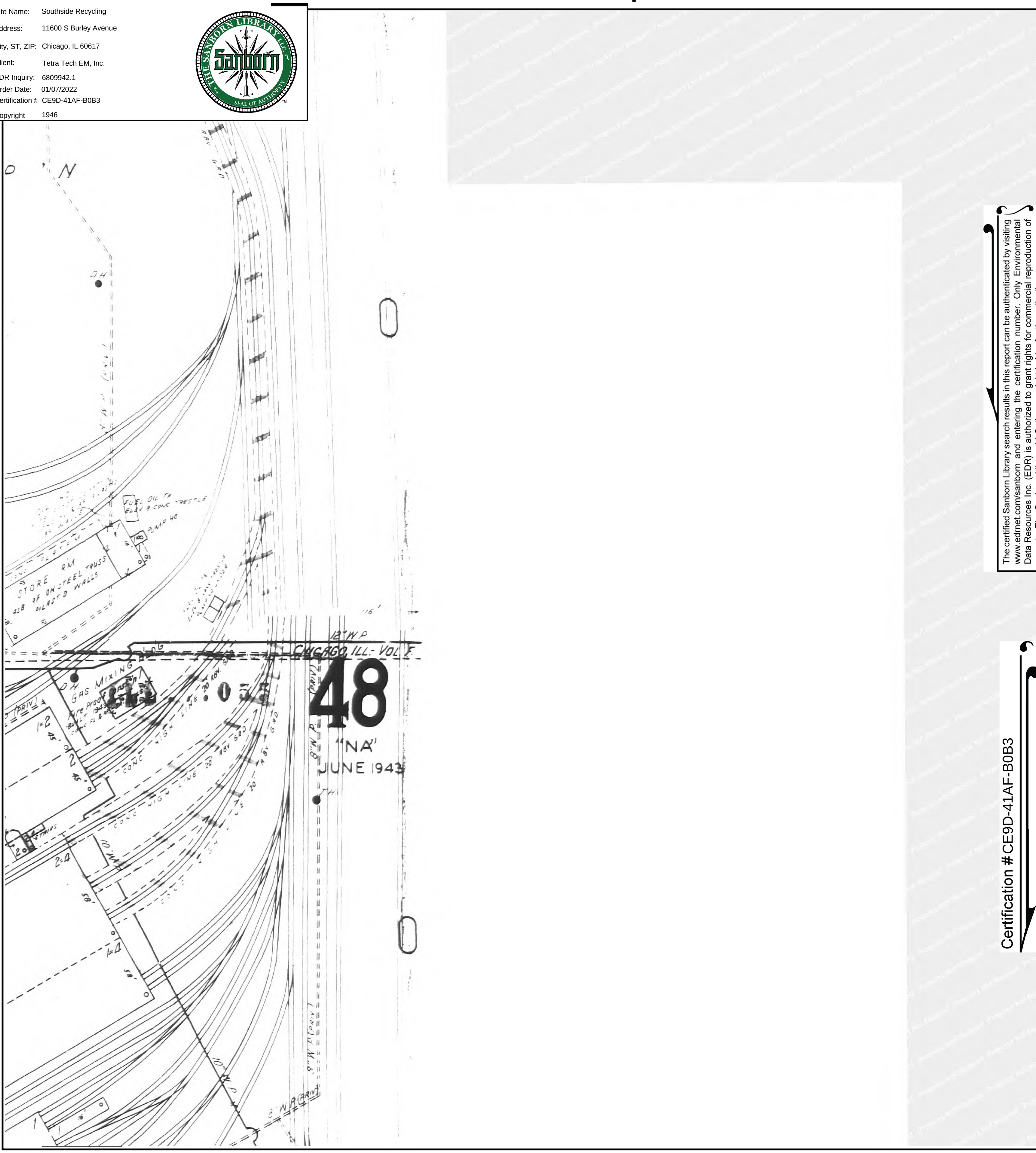
Volume 48, Sheet 76
Volume 48, Sheet 75
Volume 48, Sheet 69

N

Certified Sanborn® Map

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3



Certification # CE9D-41AF-B0B3

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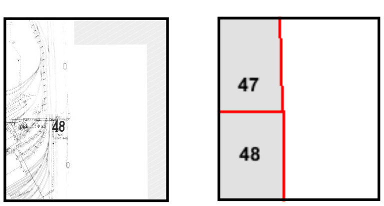

Volume F, Sheet 48
Volume F, Sheet 47

0 Feet 150 300 600

N

Southside Recycling

11600 S Burley Avenue

Chicago, IL 60617

Inquiry Number: 6809942.1

January 07, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/07/22

Site Name:

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617
EDR Inquiry # 6809942.1

Client Name:

Tetra Tech EM, Inc.
1 South Wacker Drive, 37th Floor
Chicago, IL 60606
Contact: Stacey Durley

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Certified Sanborn Results:

Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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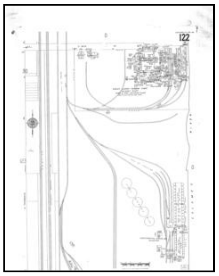
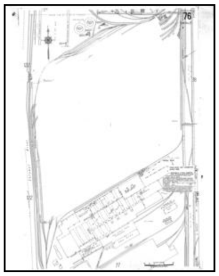
Sanborn Sheet Key

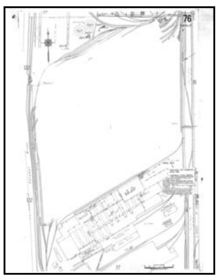
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

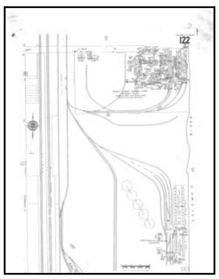
2004 Source Sheets


Volume 48, Sheet 122
2004

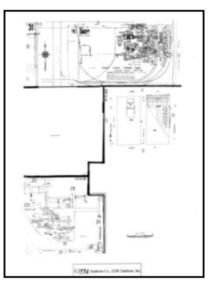

Volume 48, Sheet 76
2004

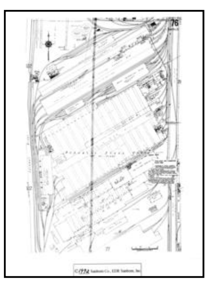
2002 Source Sheets

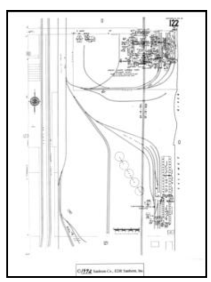

Volume 48, Sheet 76
2002


Volume 48, Sheet 122
2002

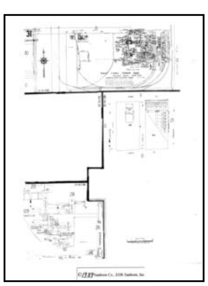
1992 Source Sheets


Volume 48, Sheet 31
1992

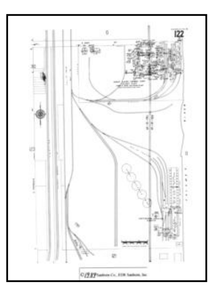

Volume 48, Sheet 76
1992


Volume 48, Sheet 122
1992

1989 Source Sheets


Volume 48, Sheet 31
1989

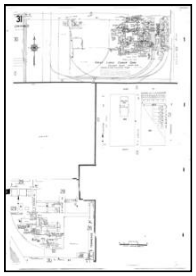

Volume 48, Sheet 76
1989


Volume 48, Sheet 122
1989

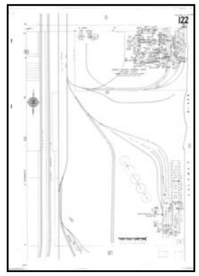
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1987 Source Sheets

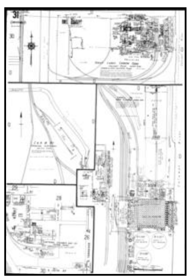

Volume 48, Sheet 31
1987


Volume 48, Sheet 76
1987


Volume 48, Sheet 122
1987

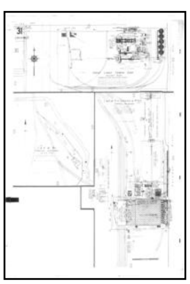
1976 Source Sheets


Volume 48, Sheet 24
1976


Volume 48, Sheet 31
1976

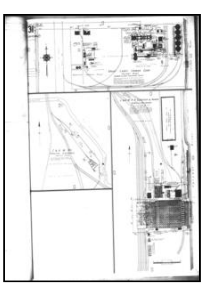

Volume 48, Sheet 76
1976

1950 Source Sheets


Volume 48, Sheet 31
1950


Volume 48, Sheet 76
1950

1947 Source Sheets


Volume 48, Sheet 31
1947


Volume 48, Sheet 76
1947

Sanborn Sheet Key

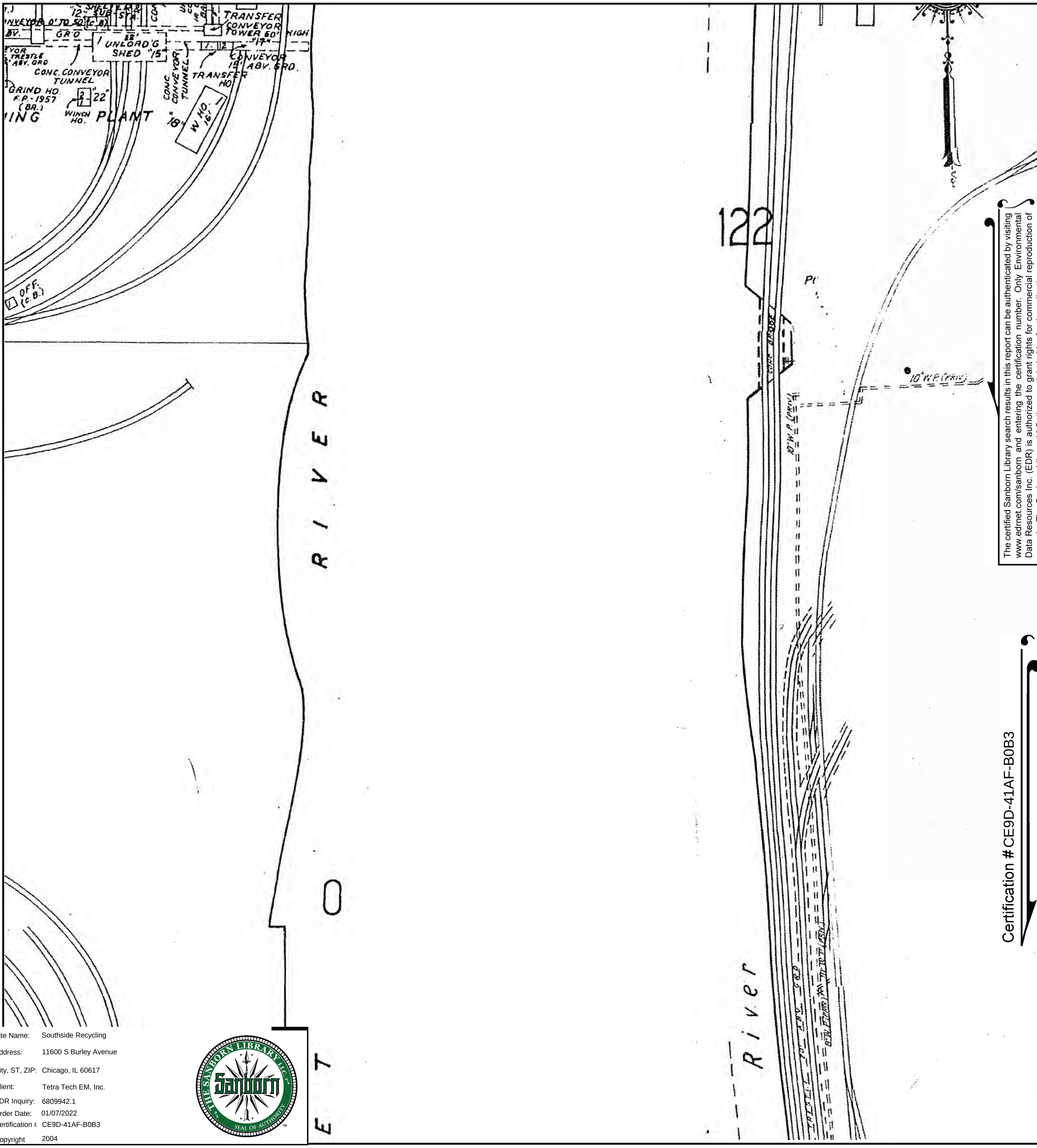
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1946 Source Sheets

Volume F, Sheet 48
1946

Certified Sanborn® Map

2004



Certification # CE9D-41AF-B0B3

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 2004

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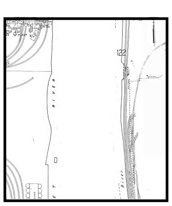

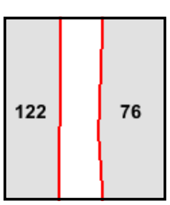

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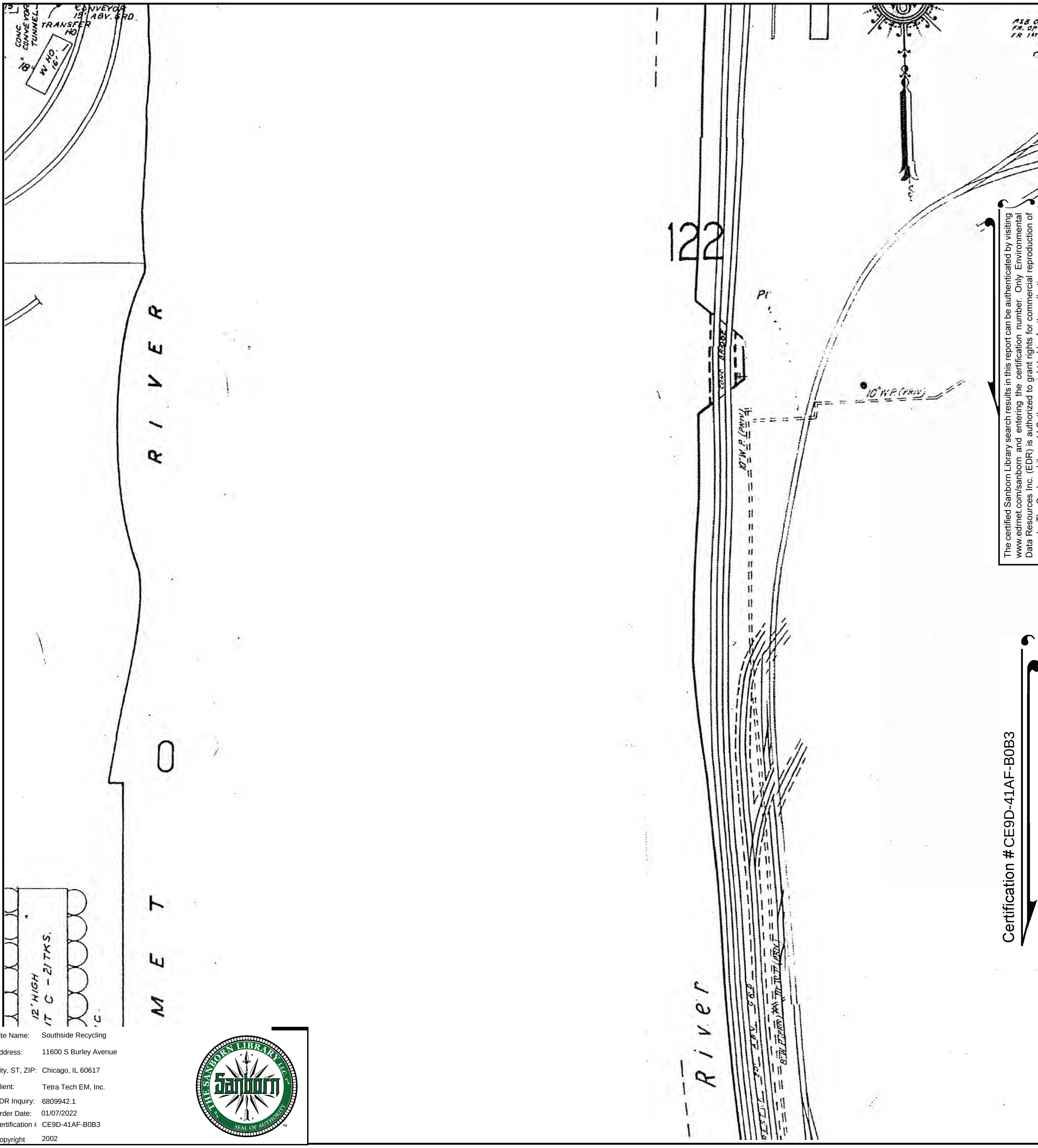
Volume 48, Sheet 122

N



Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
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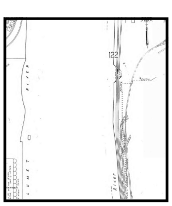

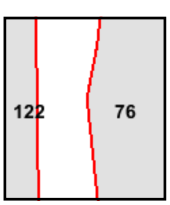

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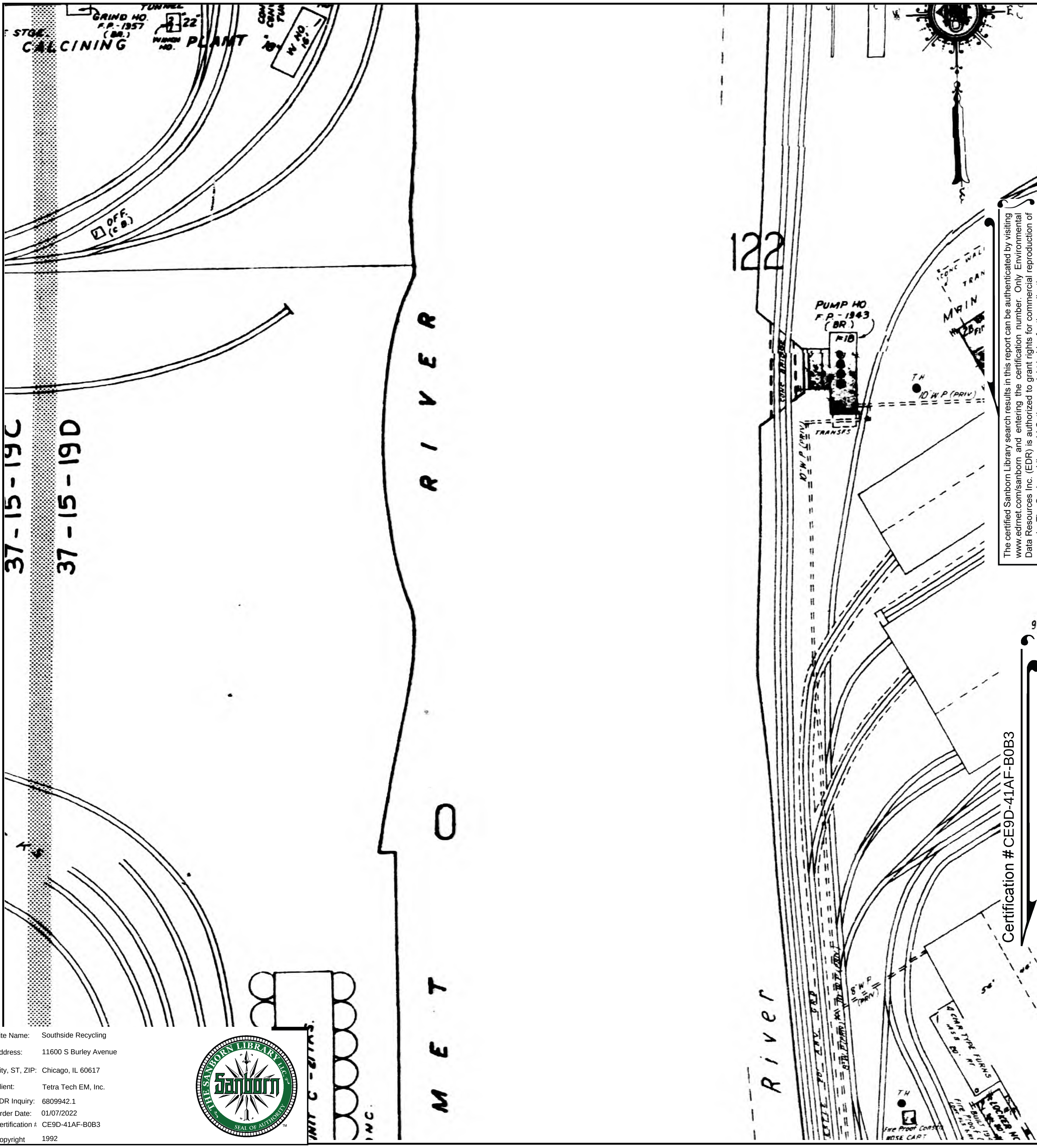

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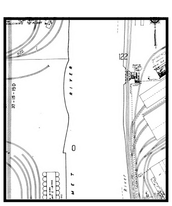

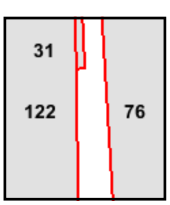

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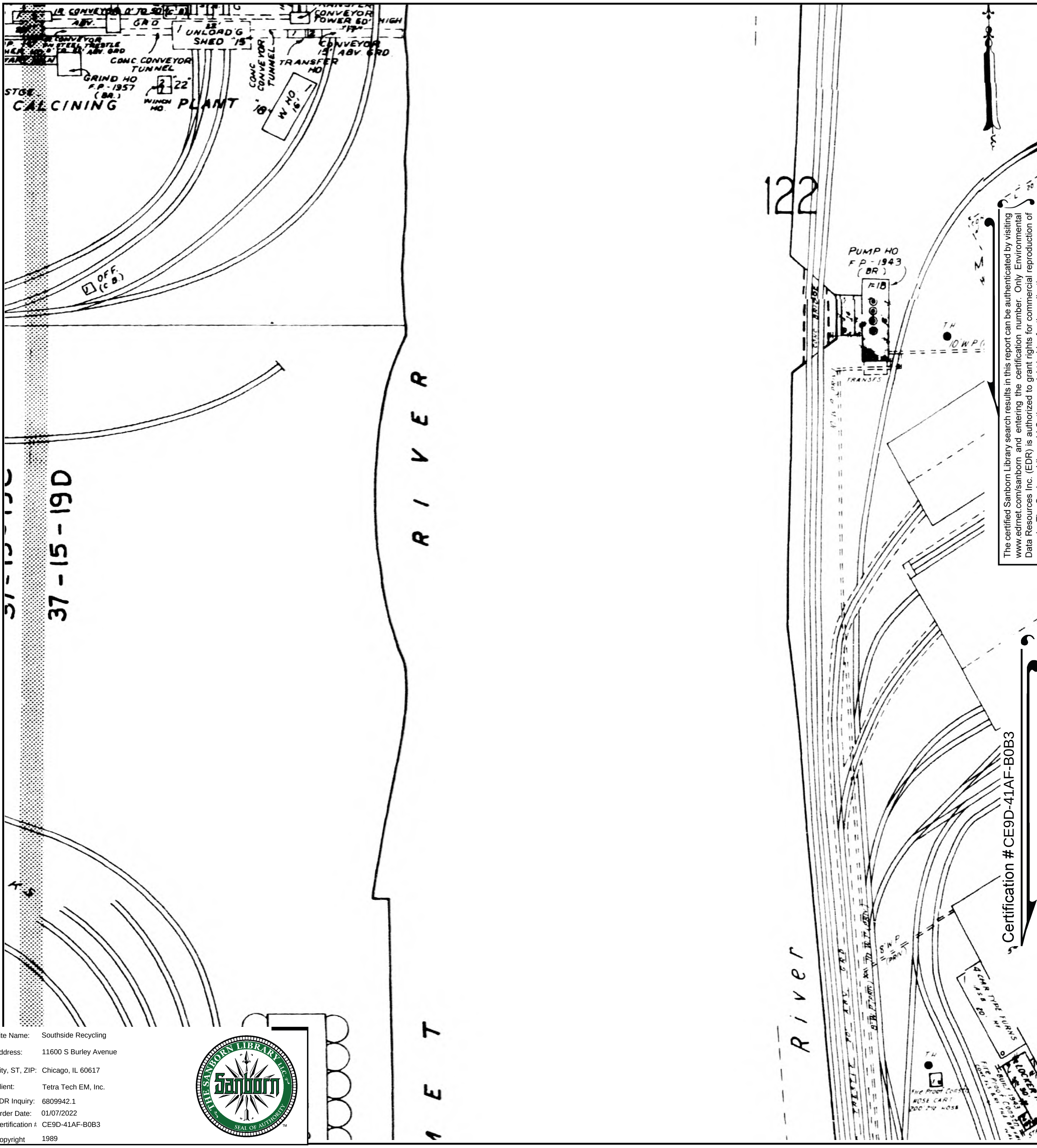

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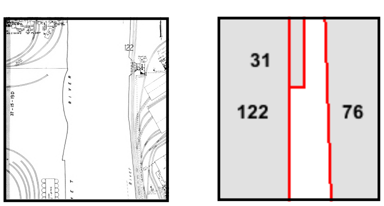

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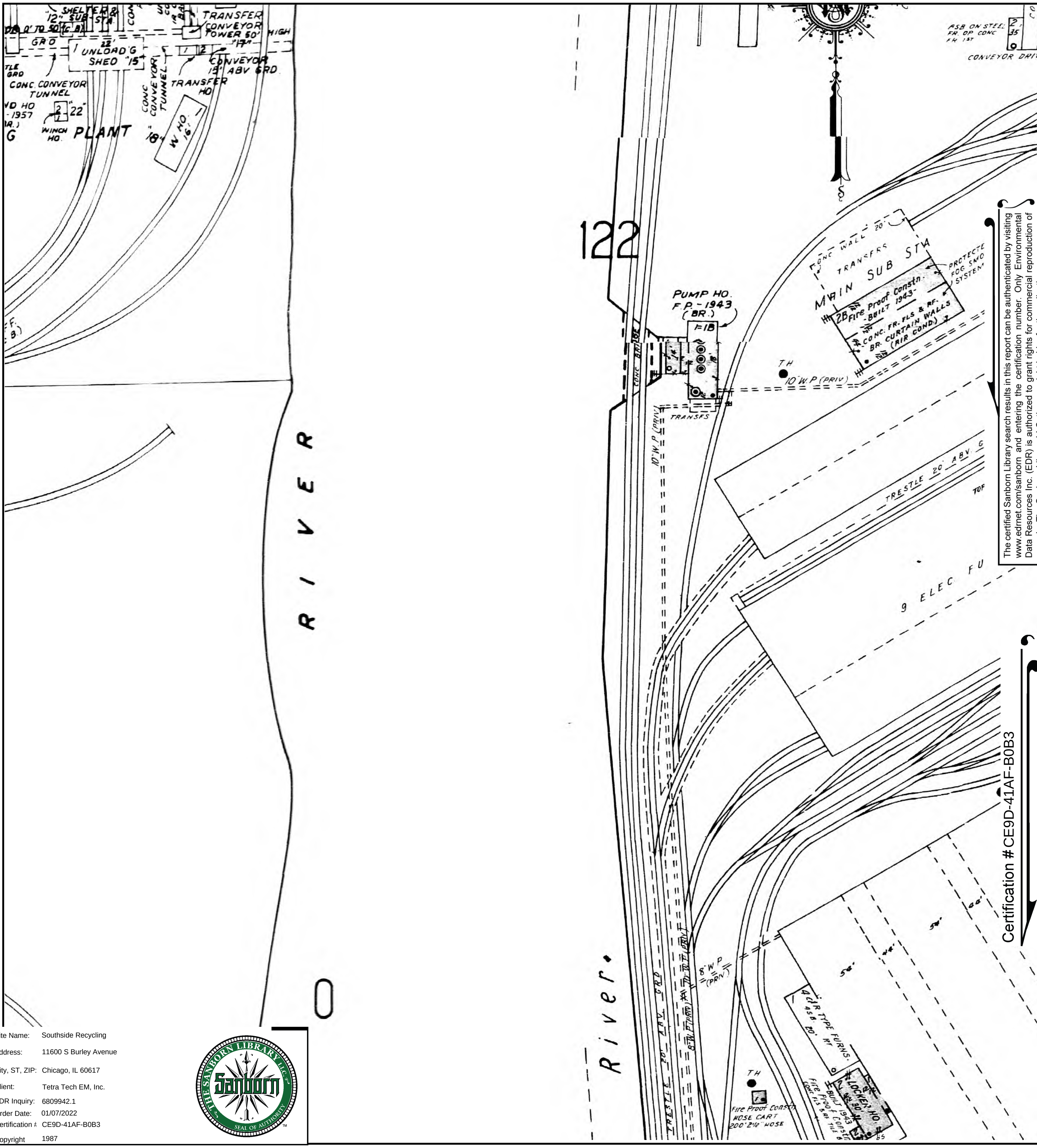
1987



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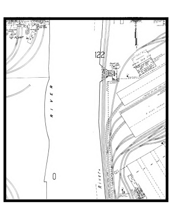

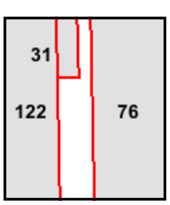

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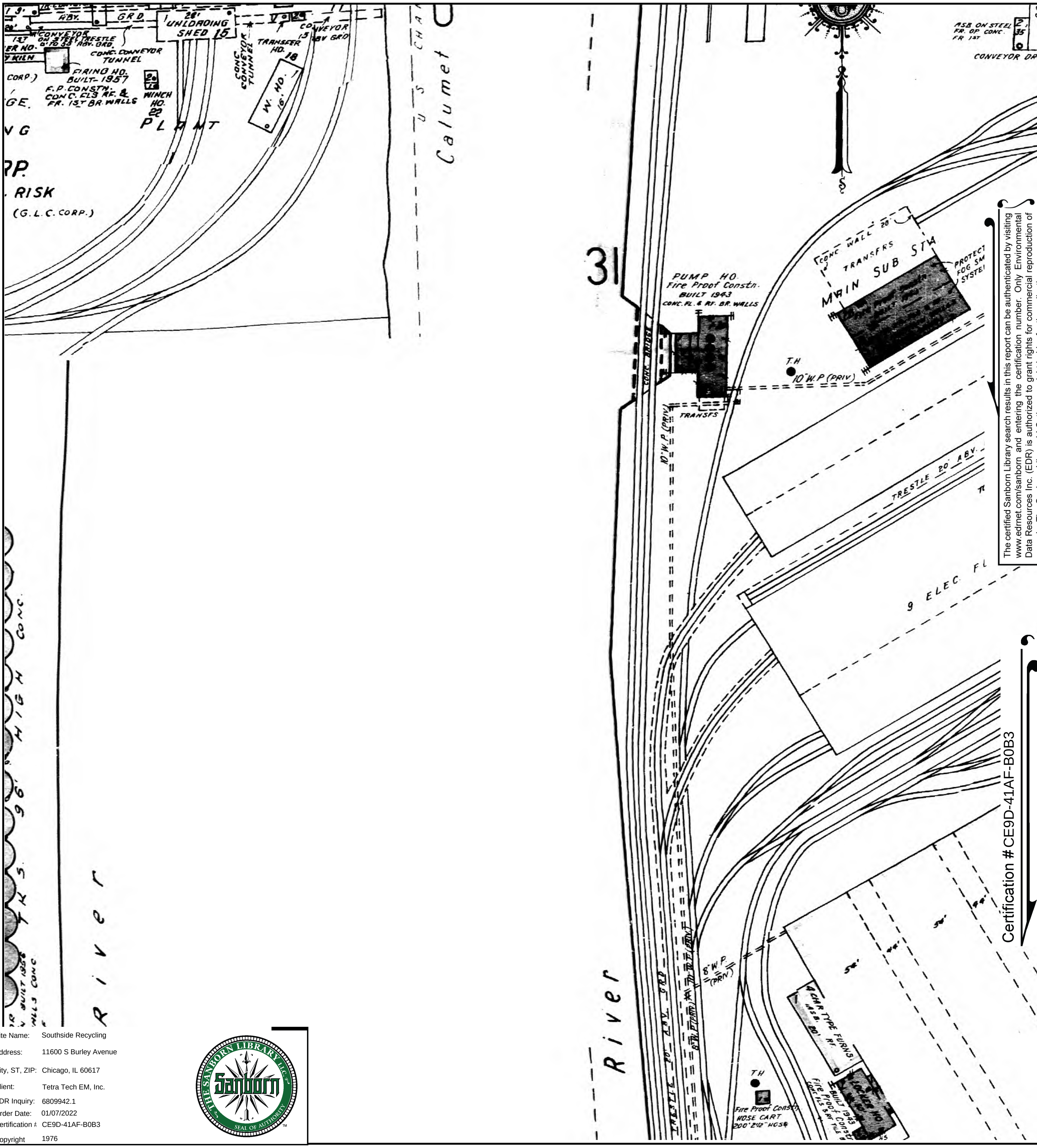
1976



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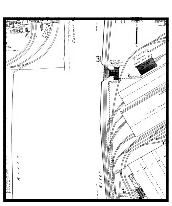

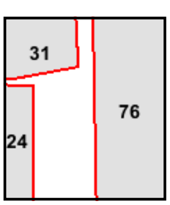

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Volume 48, Sheet 24

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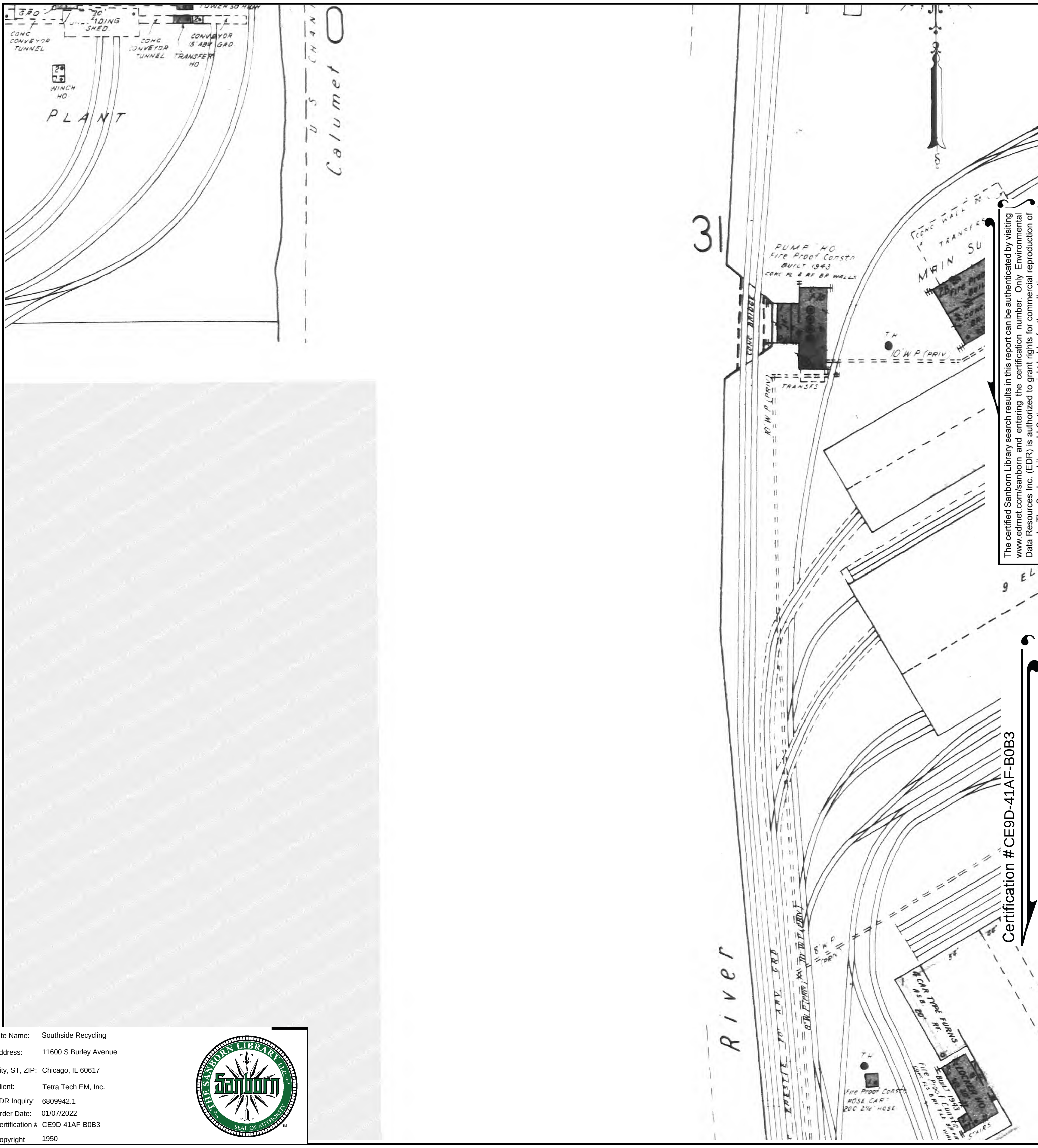
1950



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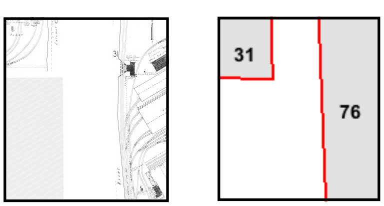

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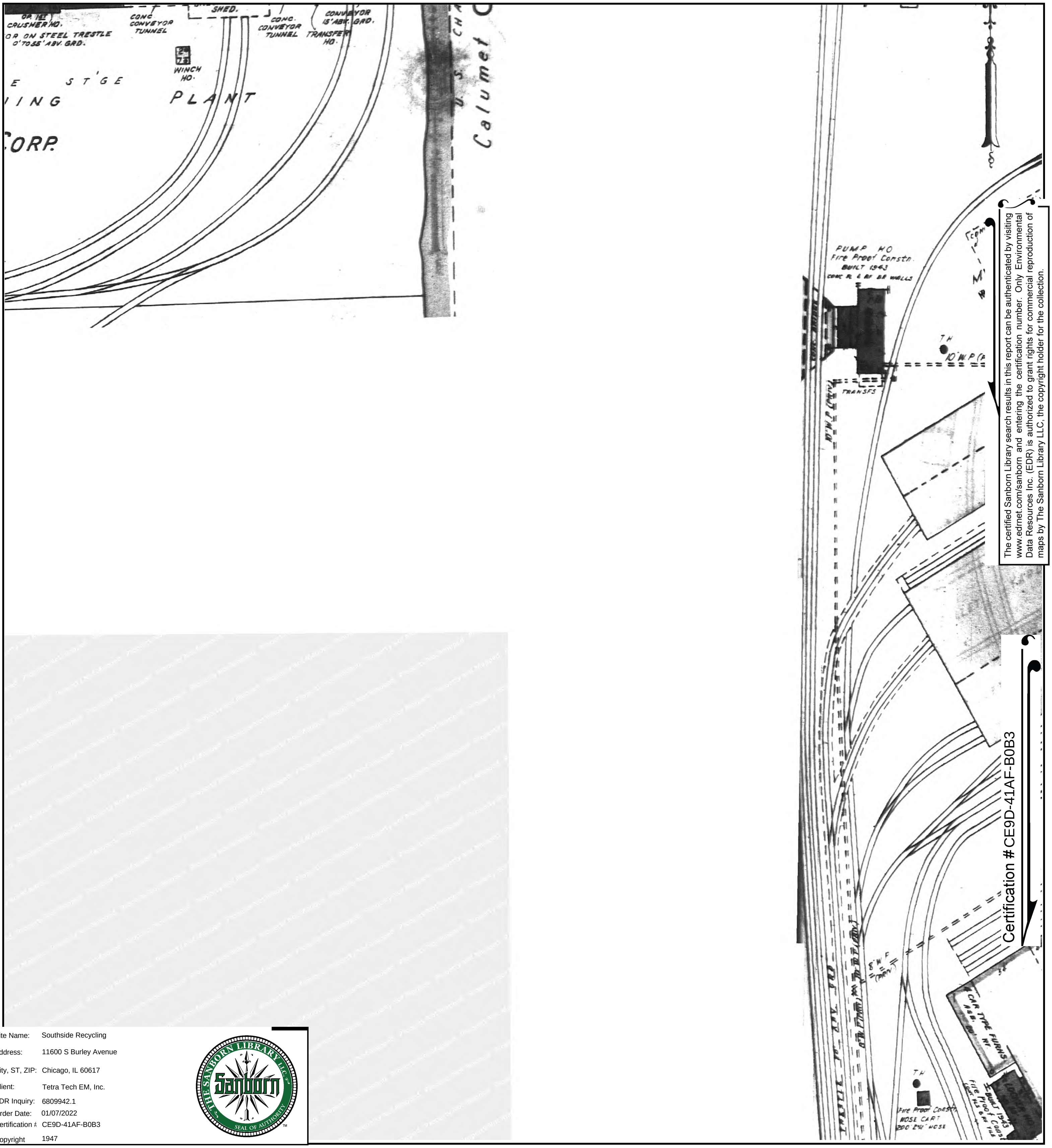
1947



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City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
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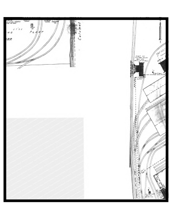

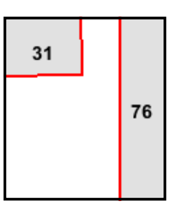

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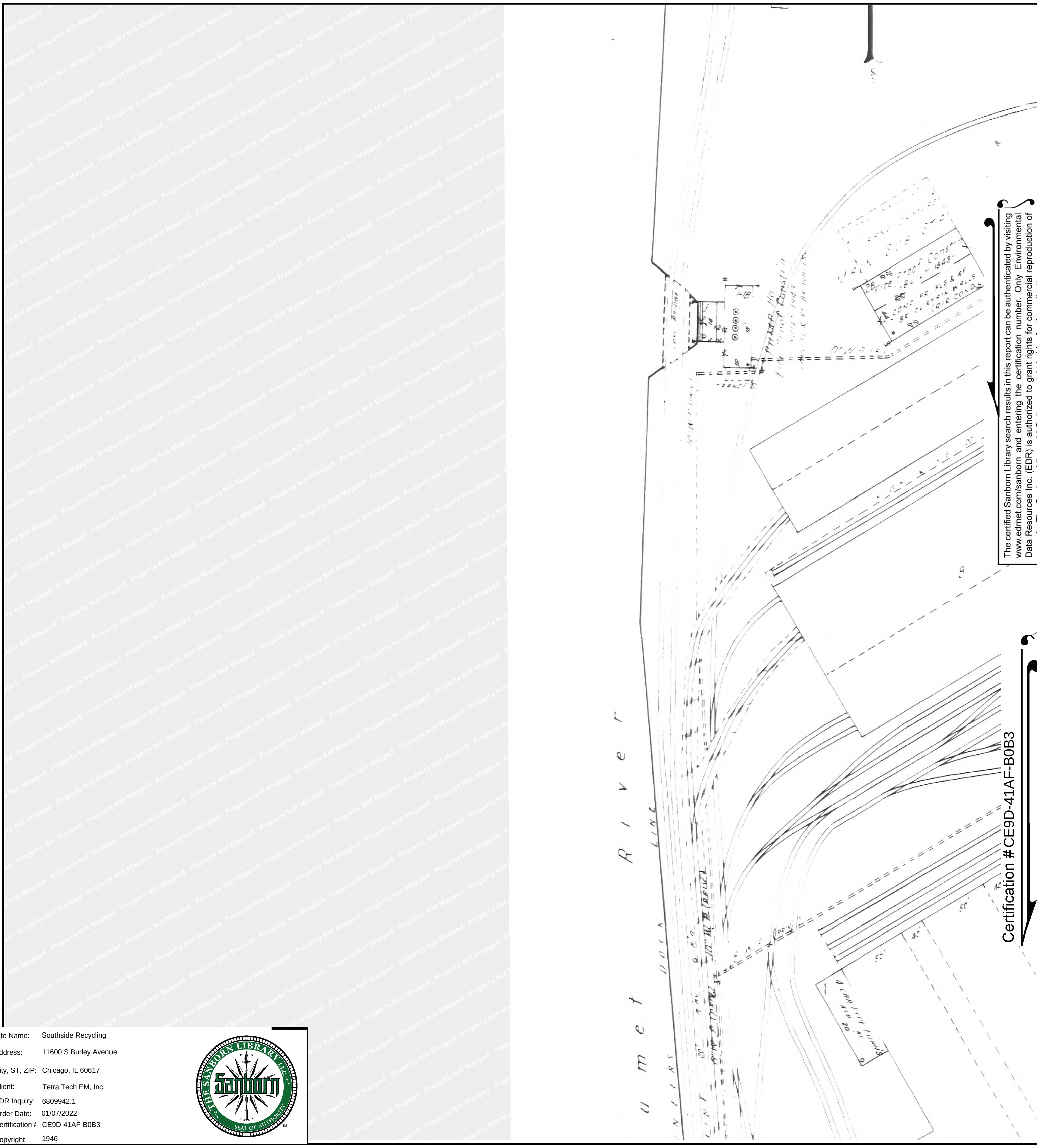
1946



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Site Name: Southside Recycling
Address: 11600 S Burley Avenue
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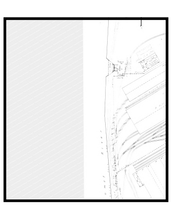

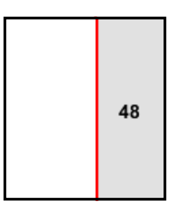

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N

Southside Recycling

11600 S Burley Avenue

Chicago, IL 60617

Inquiry Number: 6809942.1

January 07, 2022

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Certified Sanborn® Map Report

01/07/22

Site Name:

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617
EDR Inquiry # 6809942.1

Client Name:

Tetra Tech EM, Inc.
1 South Wacker Drive, 37th Floor
Chicago, IL 60606
Contact: Stacey Durley

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Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

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- ✔ Library of Congress
- ✔ University Publications of America
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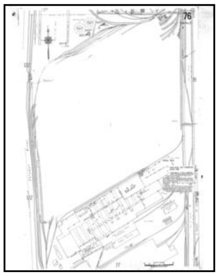
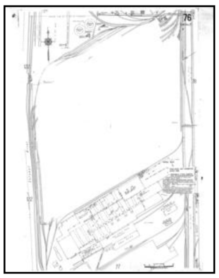
2004 Source Sheets



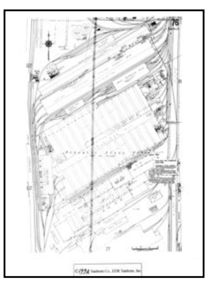
Volume 48, Sheet 76
2004

2002 Source Sheets



Volume 48, Sheet 76
2002

1992 Source Sheets



Volume 48, Sheet 76
1992

1989 Source Sheets

Volume 48, Sheet 76
1989

Sanborn Sheet Key

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1987 Source Sheets

Volume 48, Sheet 76
1987

1976 Source Sheets

Volume 48, Sheet 76
1976

1950 Source Sheets

Volume 48, Sheet 76
1950

1947 Source Sheets

Volume 48, Sheet 76
1947

Sanborn Sheet Key

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1946 Source Sheets

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1946

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2004

Certification # CE9D-41AF-B0B3

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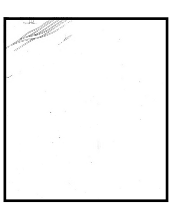

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2002

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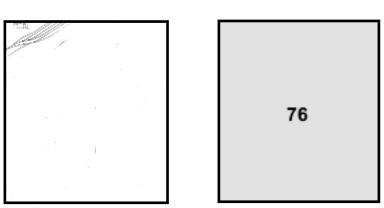

Volume 48, Sheet 76

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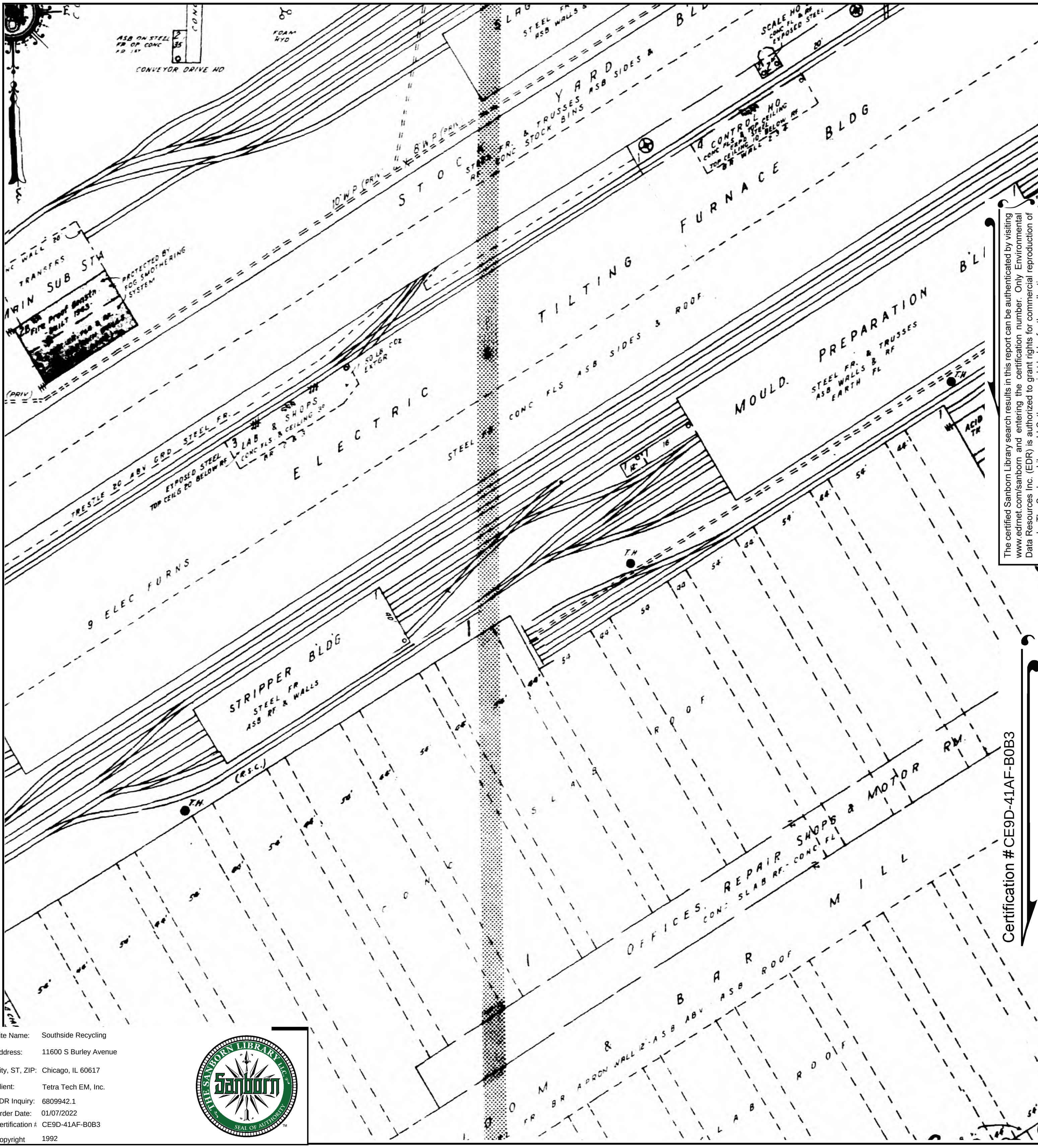

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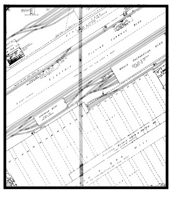

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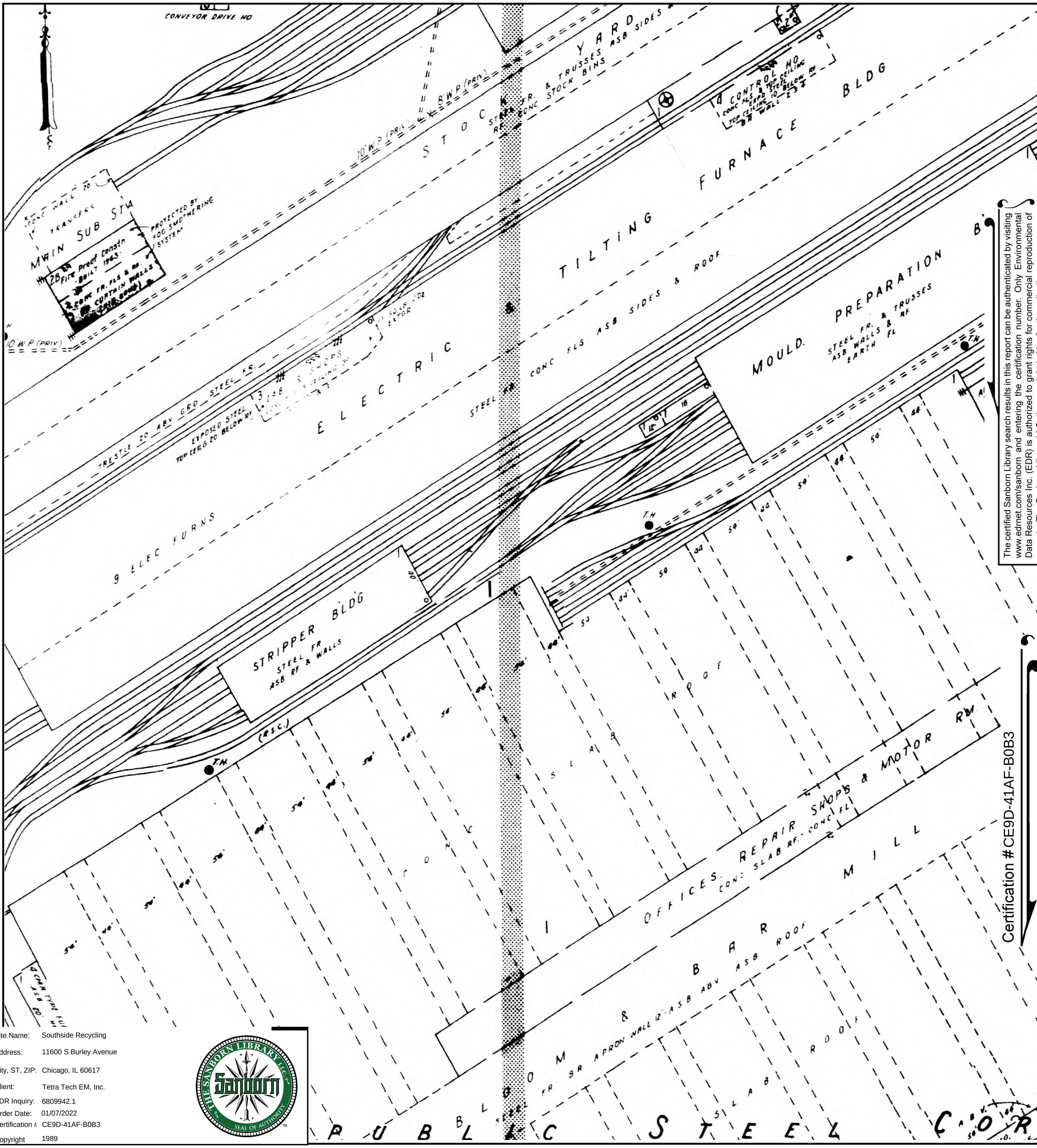
1989



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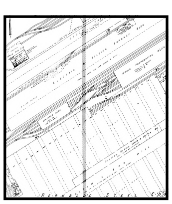

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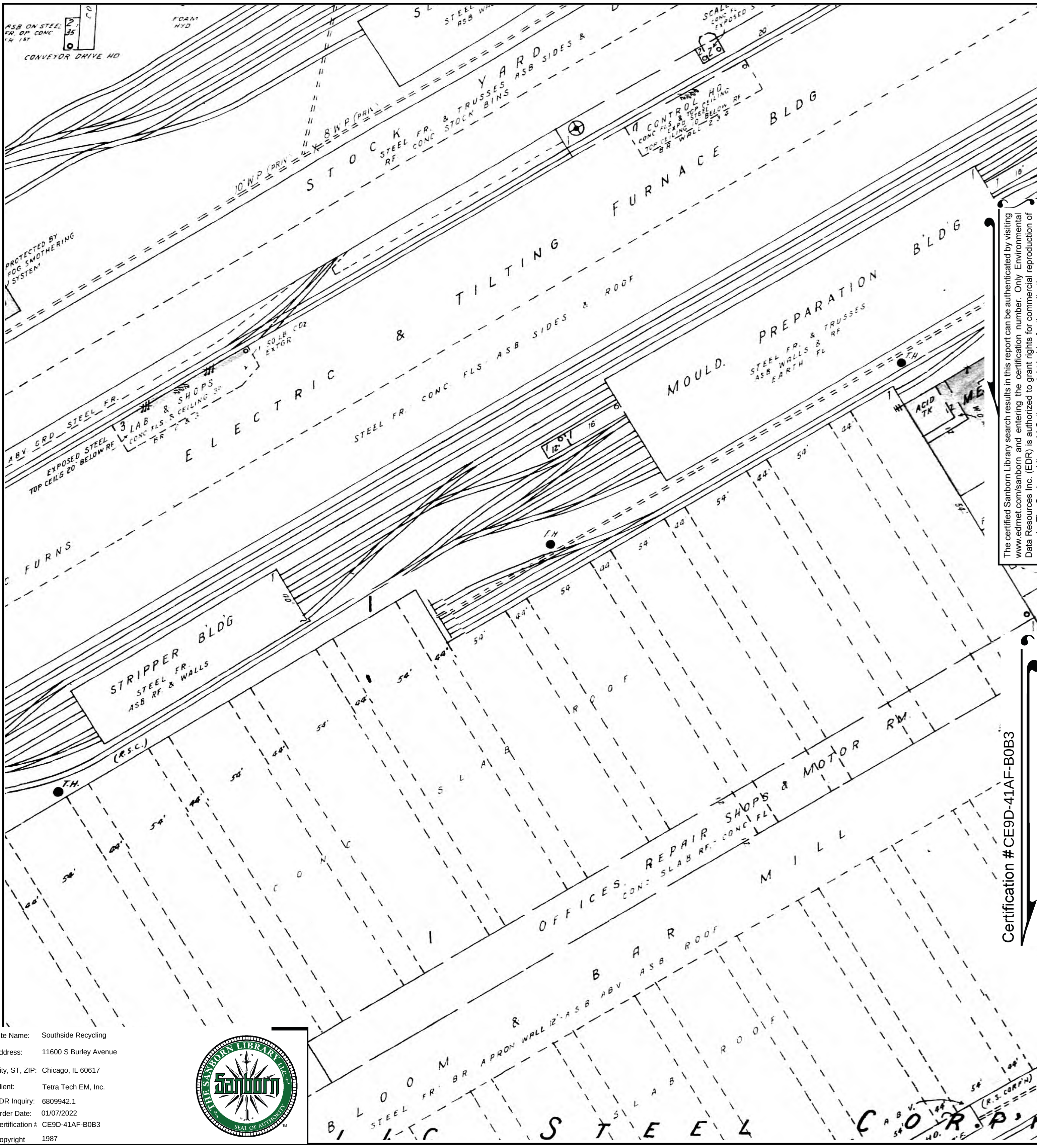
1987



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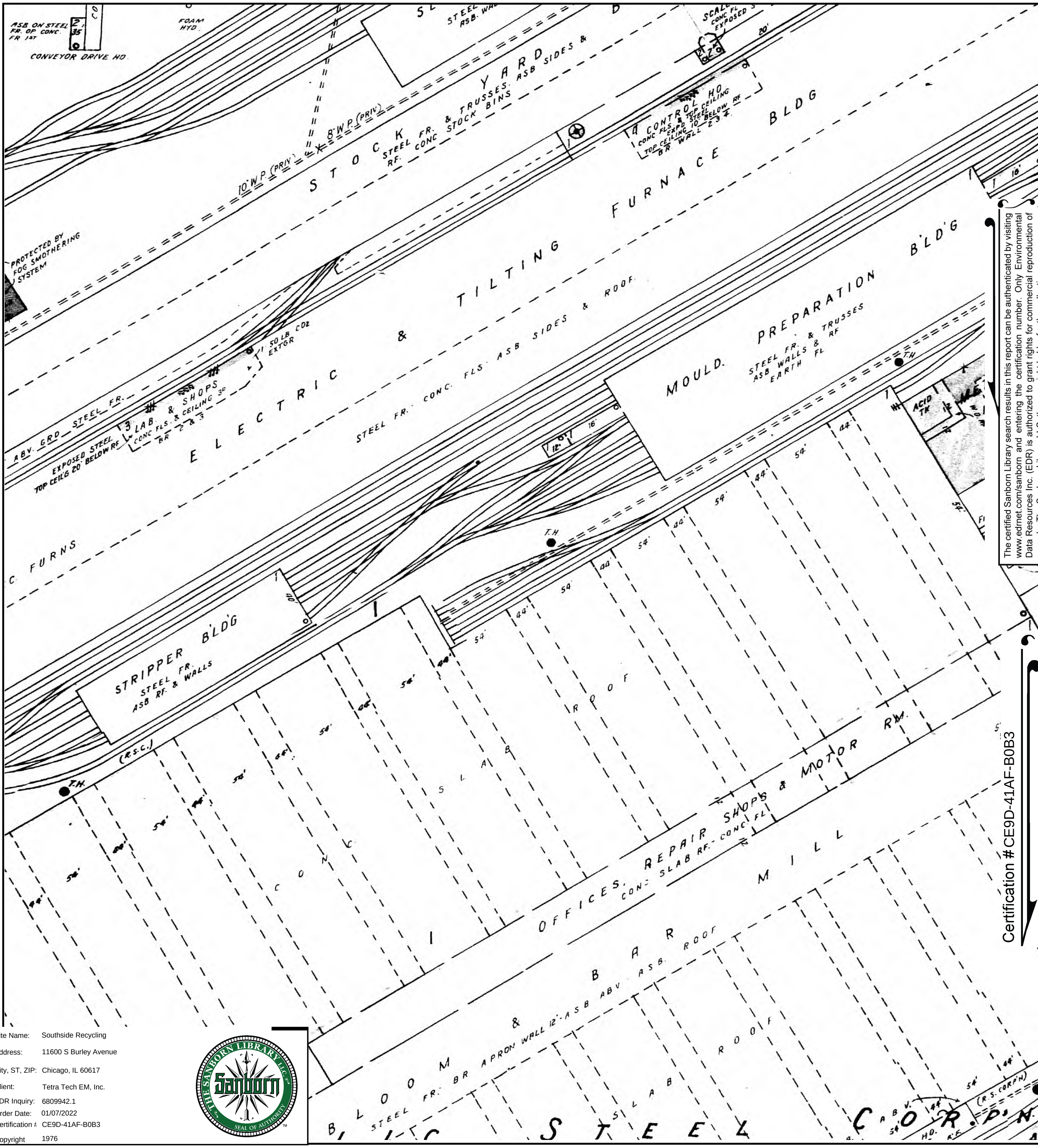

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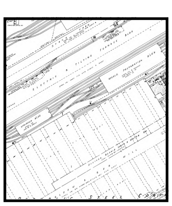

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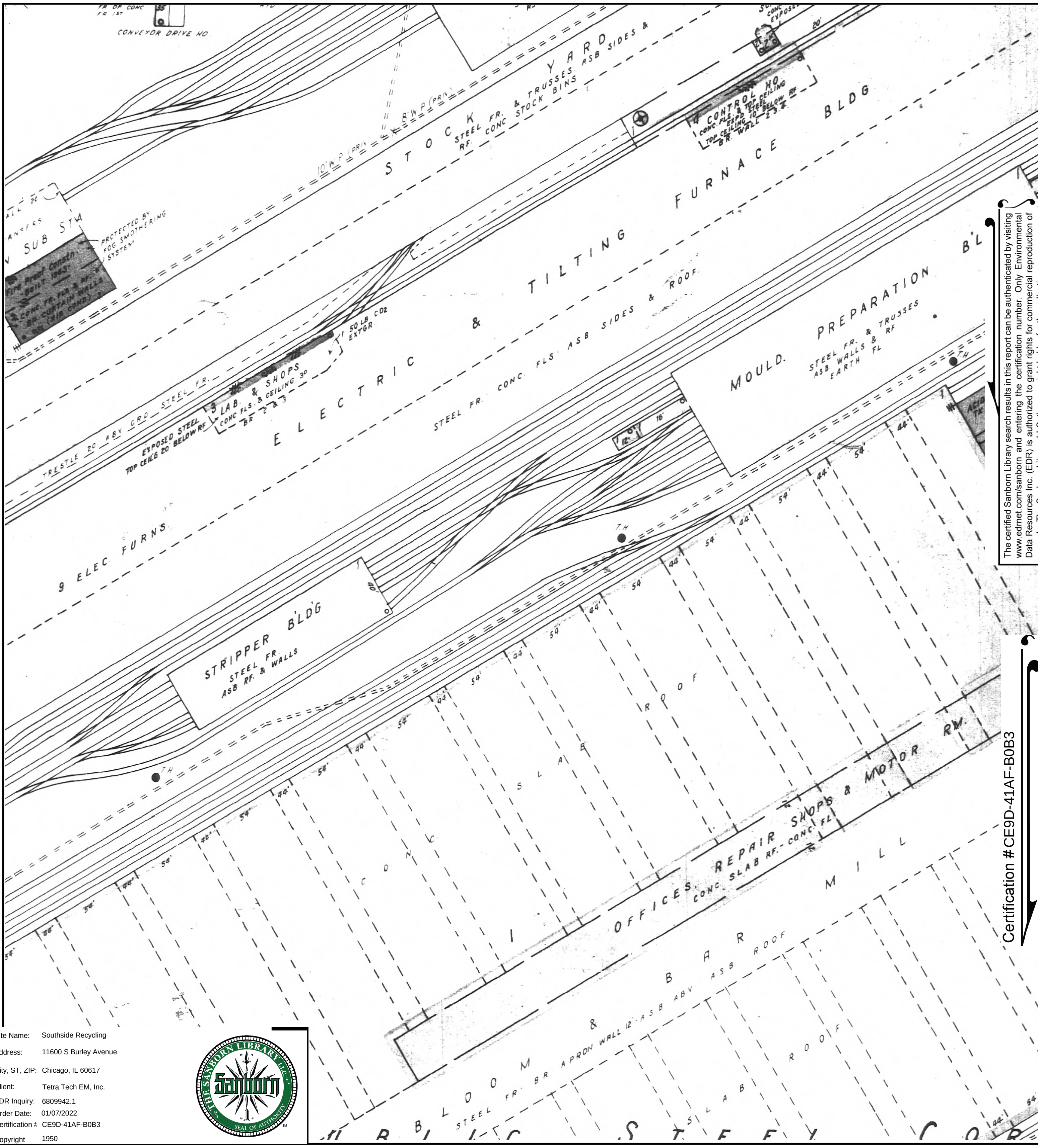

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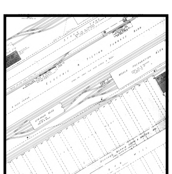

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Volume 48, Sheet 76

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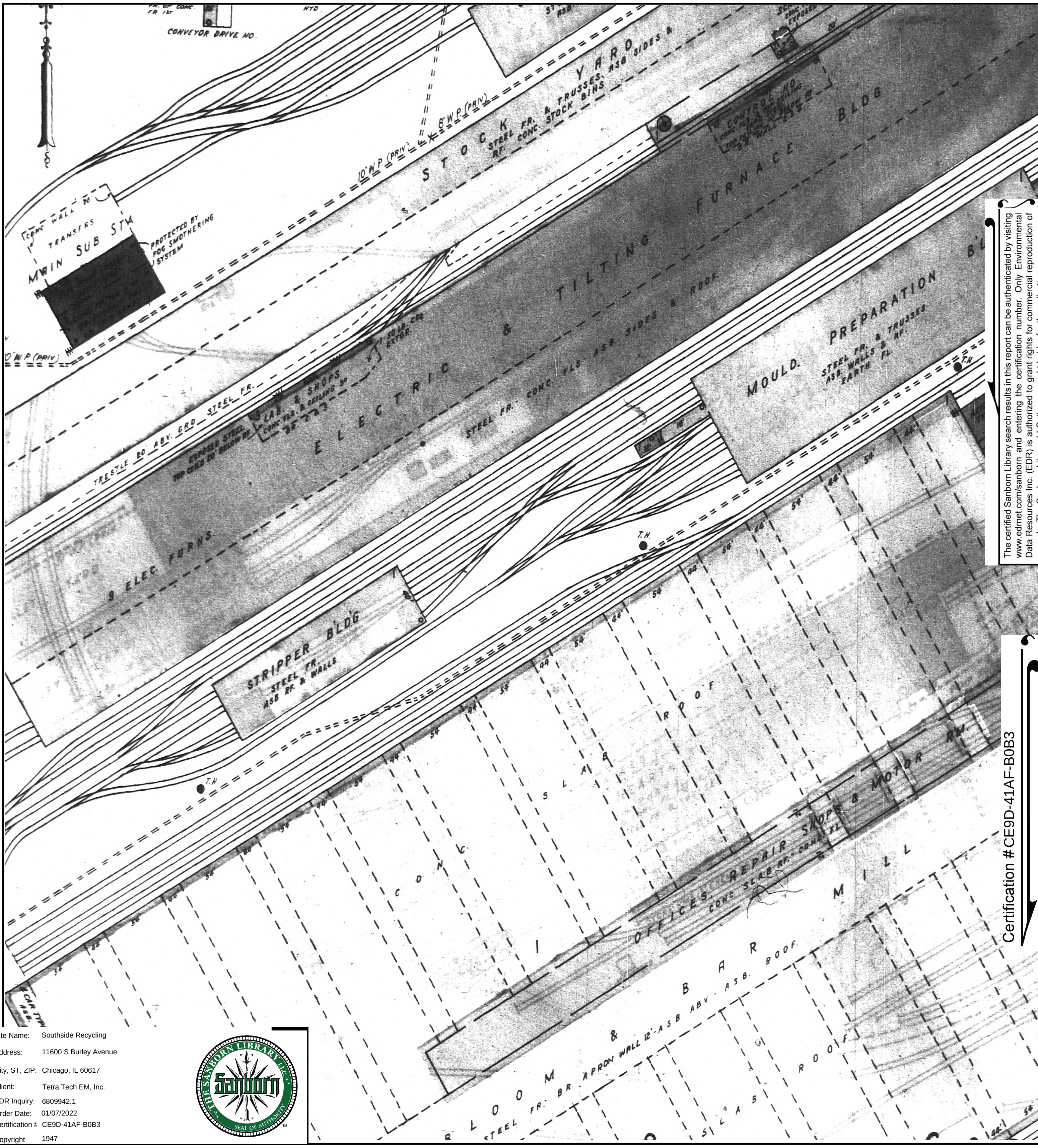

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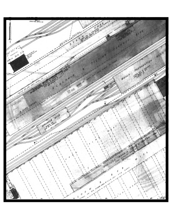

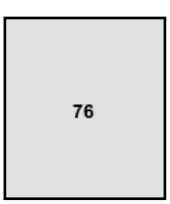

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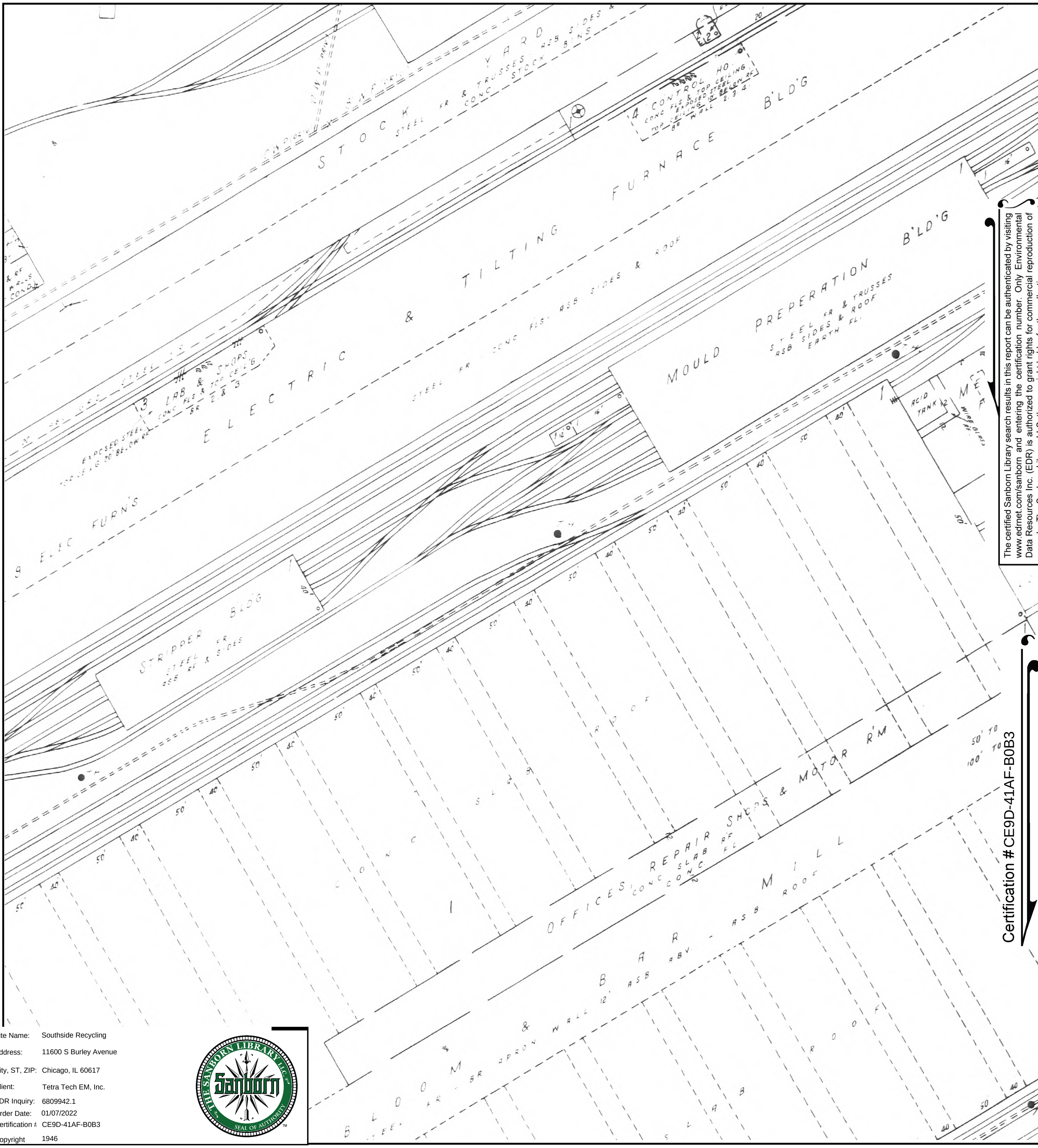
Certified Sanborn® Map

1946



Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1946

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Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

48

Volume F, Sheet 48

N

Southside Recycling

11600 S Burley Avenue

Chicago, IL 60617

Inquiry Number: 6809942.1

January 07, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/07/22

Site Name:

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617
EDR Inquiry # 6809942.1

Client Name:

Tetra Tech EM, Inc.
1 South Wacker Drive, 37th Floor
Chicago, IL 60606
Contact: Stacey Durley

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Certified Sanborn Results:

Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

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- ✔ University Publications of America
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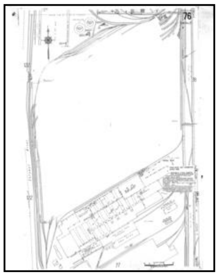
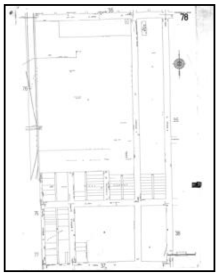
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2004 Source Sheets

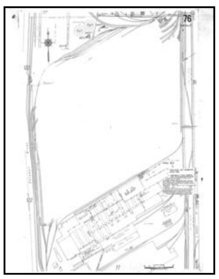


Volume 48, Sheet 76
2004

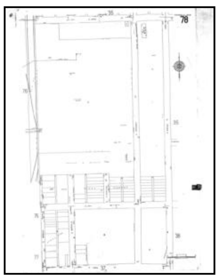


Volume 48, Sheet 78
2004

2002 Source Sheets

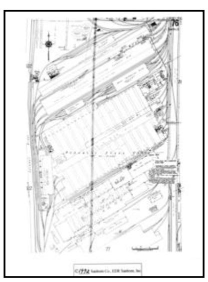


Volume 48, Sheet 76
2002

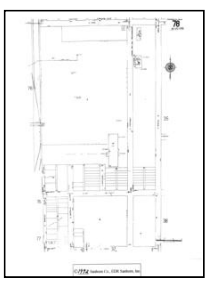


Volume 48, Sheet 78
2002

1992 Source Sheets



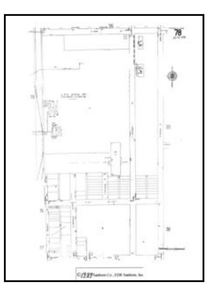
Volume 48, Sheet 76
1992



Volume 48, Sheet 78
1992

1989 Source Sheets

Volume 48, Sheet 76
1989



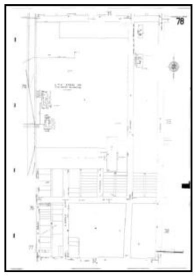
Volume 48, Sheet 78
1989

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1987 Source Sheets

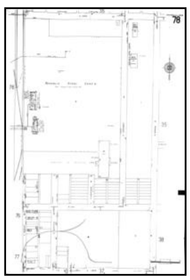
Volume 48, Sheet 76
1987



Volume 48, Sheet 78
1987

1976 Source Sheets

Volume 48, Sheet 76
1976



Volume 48, Sheet 78
1976

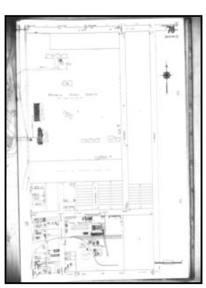
1950 Source Sheets

Volume 48, Sheet 76
1950

Volume 48, Sheet 78
1950

1947 Source Sheets

Volume 48, Sheet 76
1947



Volume 48, Sheet 78
1947

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1946 Source Sheets

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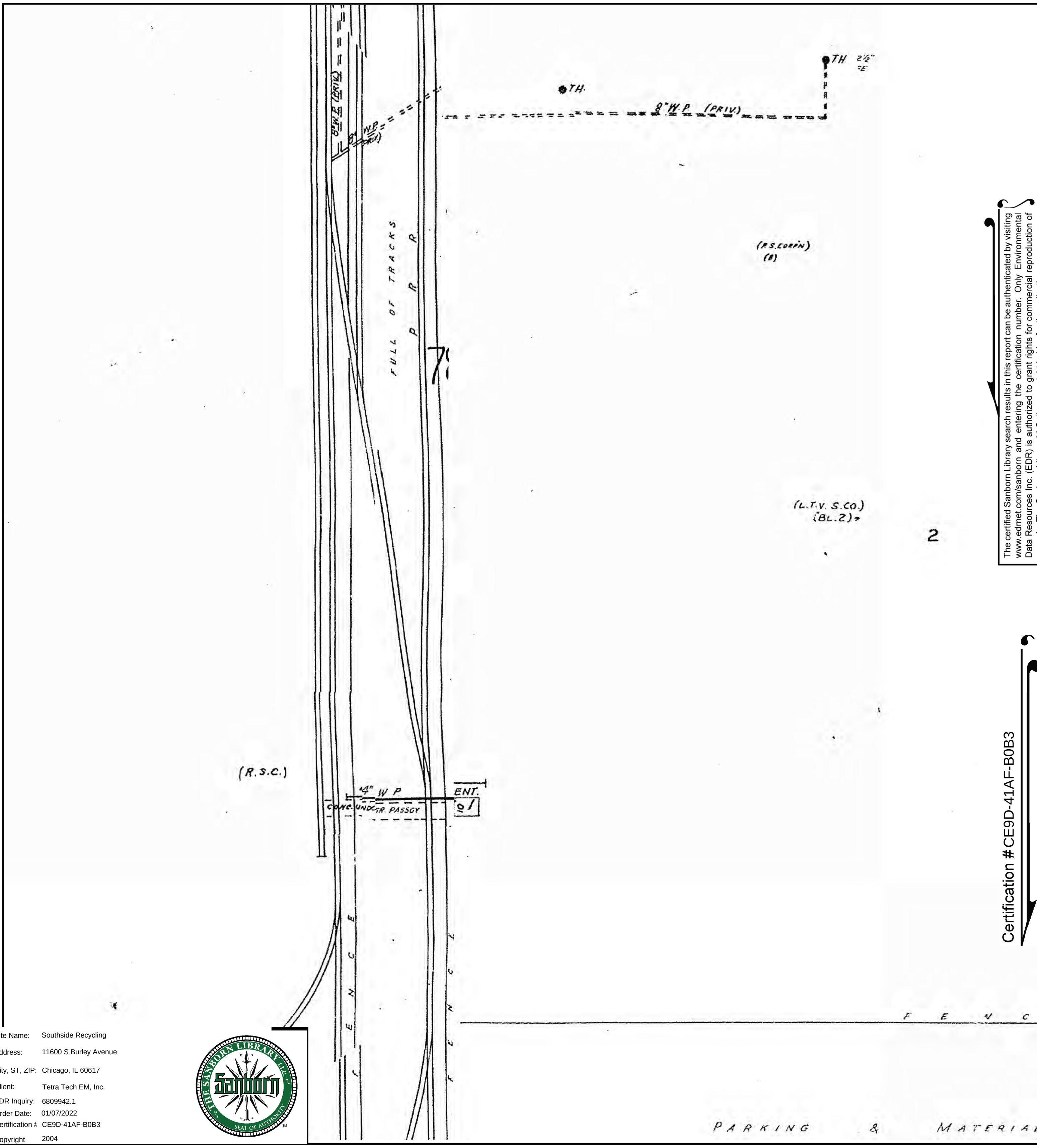
1946

Volume F, Sheet 48
1946

Certified Sanborn® Map

2004



Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	2004

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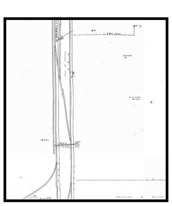
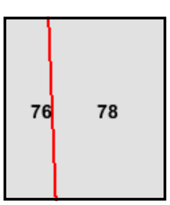
0 Feet 150 300 600





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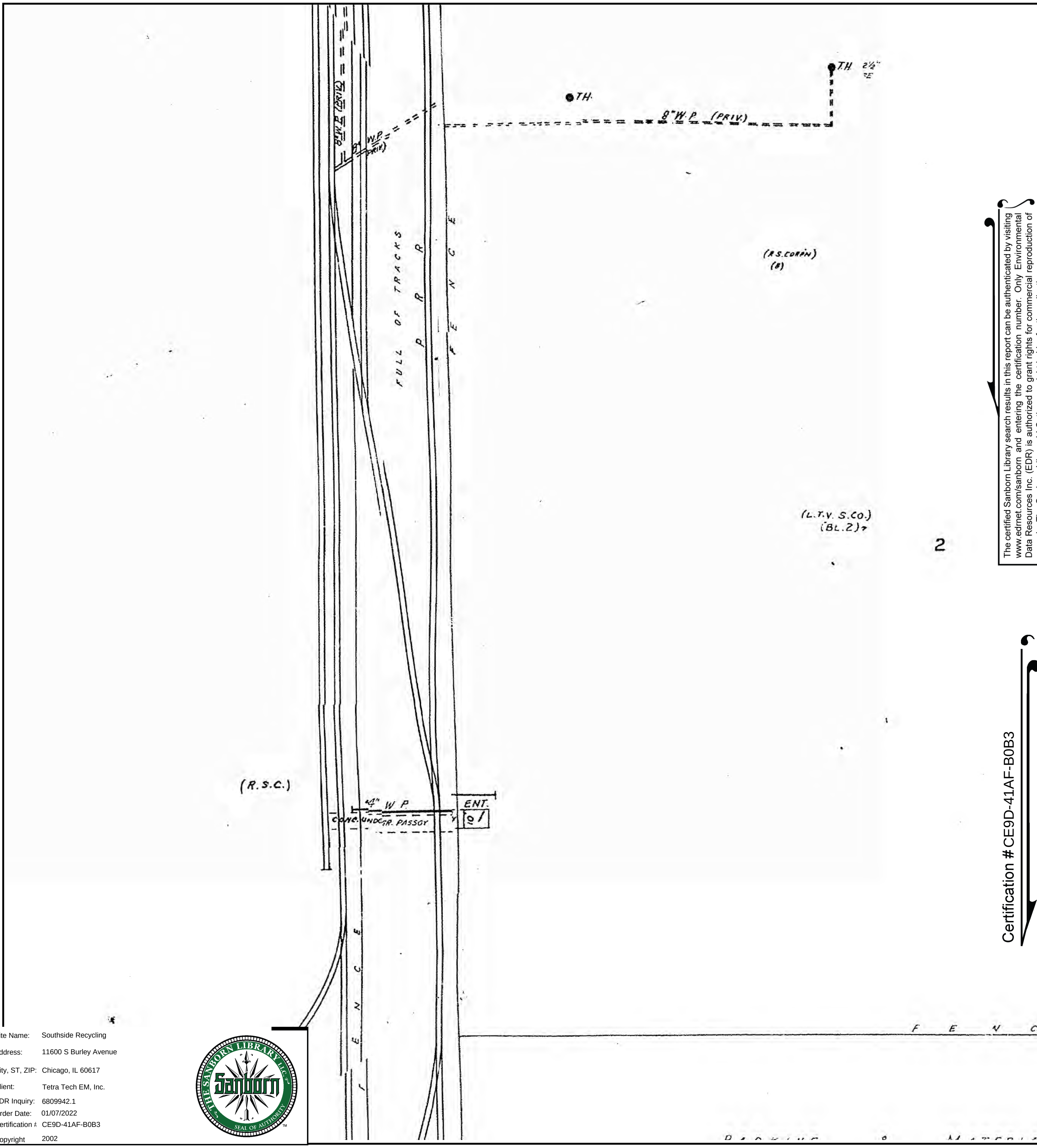
Volume 48, Sheet 76

N

Certified Sanborn® Map

2002



Site Name:	Southside Recycling
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City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	2002

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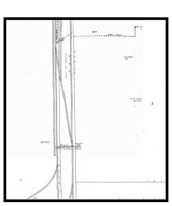

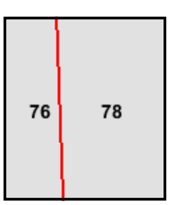

Volume 48, Sheet 78
Volume 48, Sheet 76

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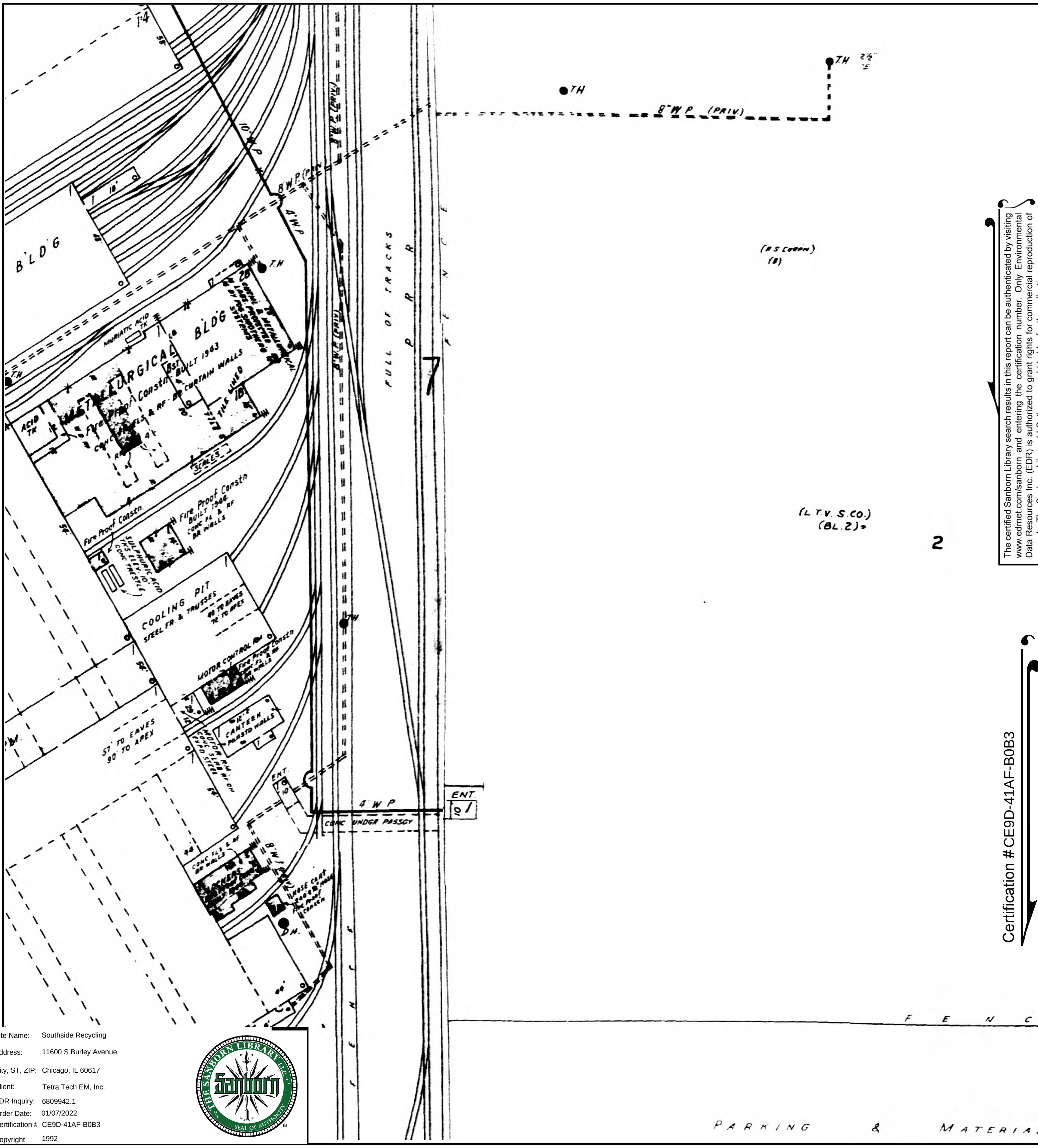

Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #:	CE9D-41AF-B0B3
Copyright	1992

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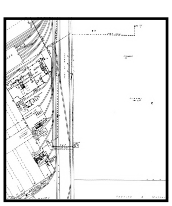
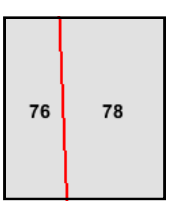
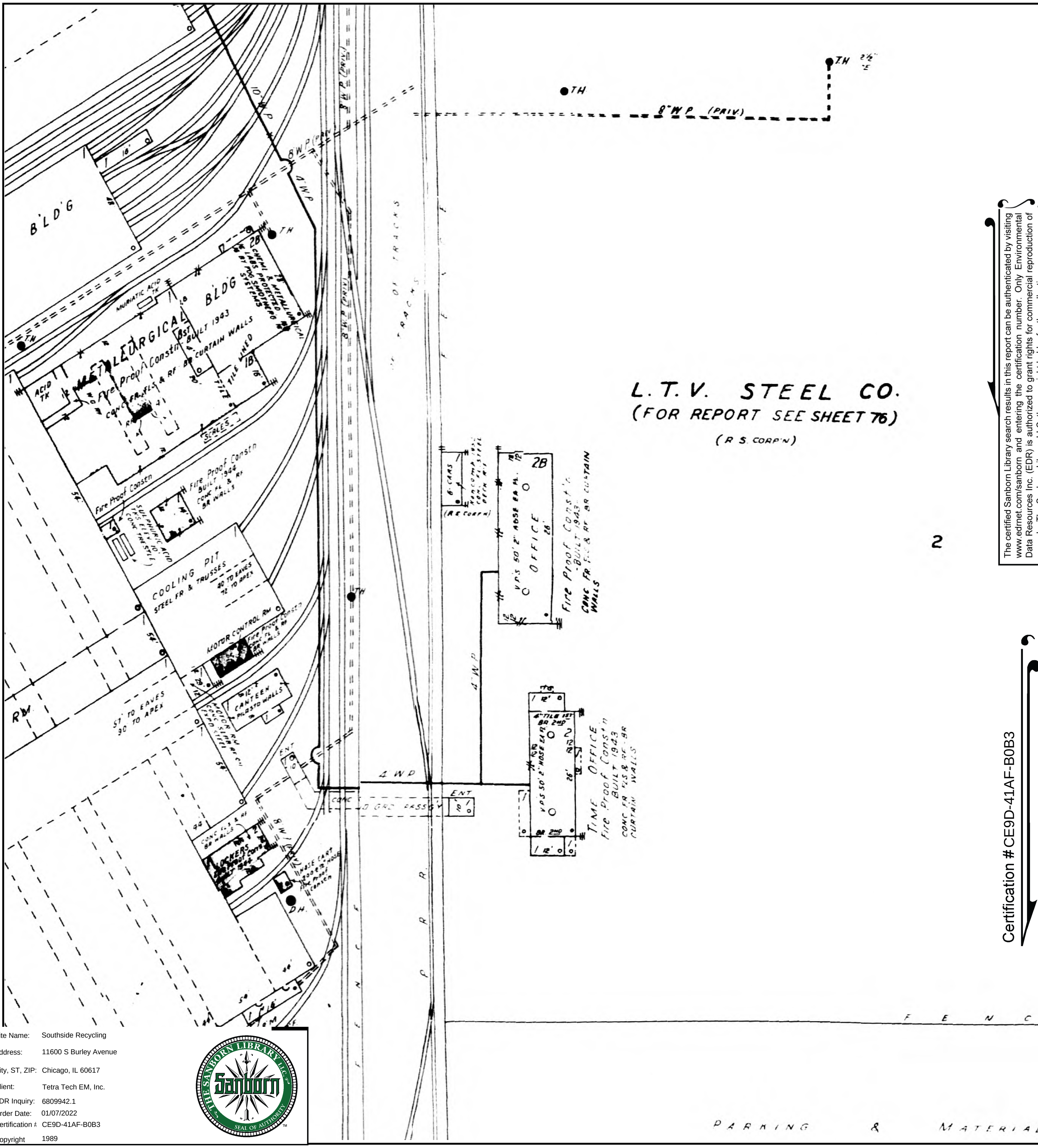




Volume 48, Sheet 78
Volume 48, Sheet 76

N



Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #:	CE9D-41AF-B0B3
Copyright	1989

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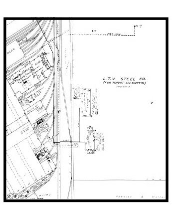
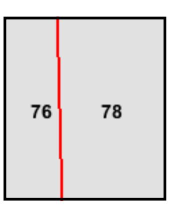


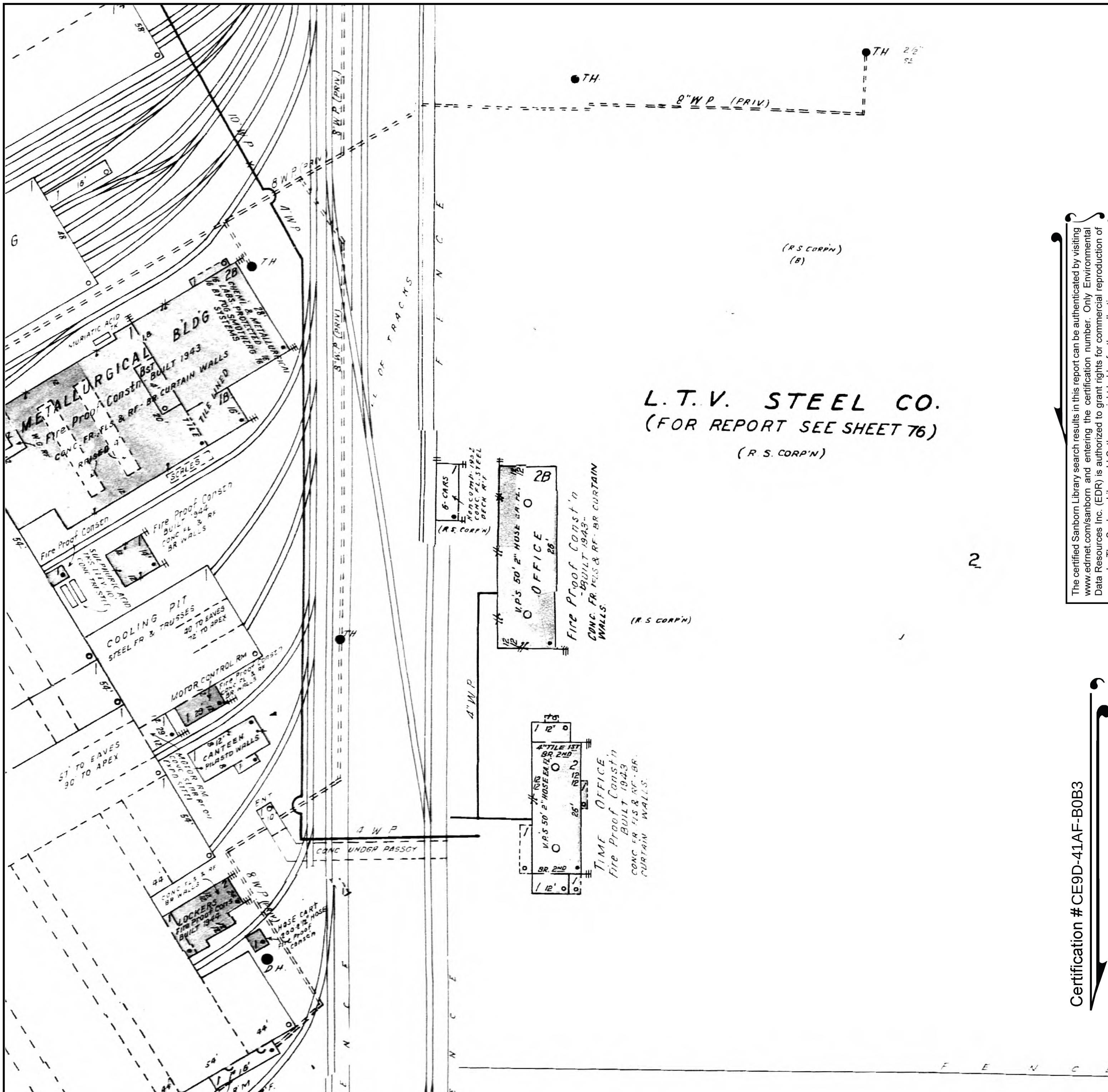


Volume 48, Sheet 78
Volume 48, Sheet 76

N

Certified Sanborn® Map

1987



Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1987

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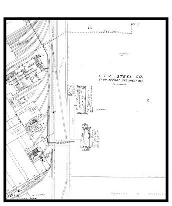

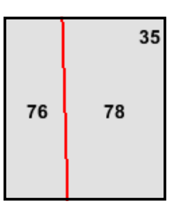

Volume 48, Sheet 78
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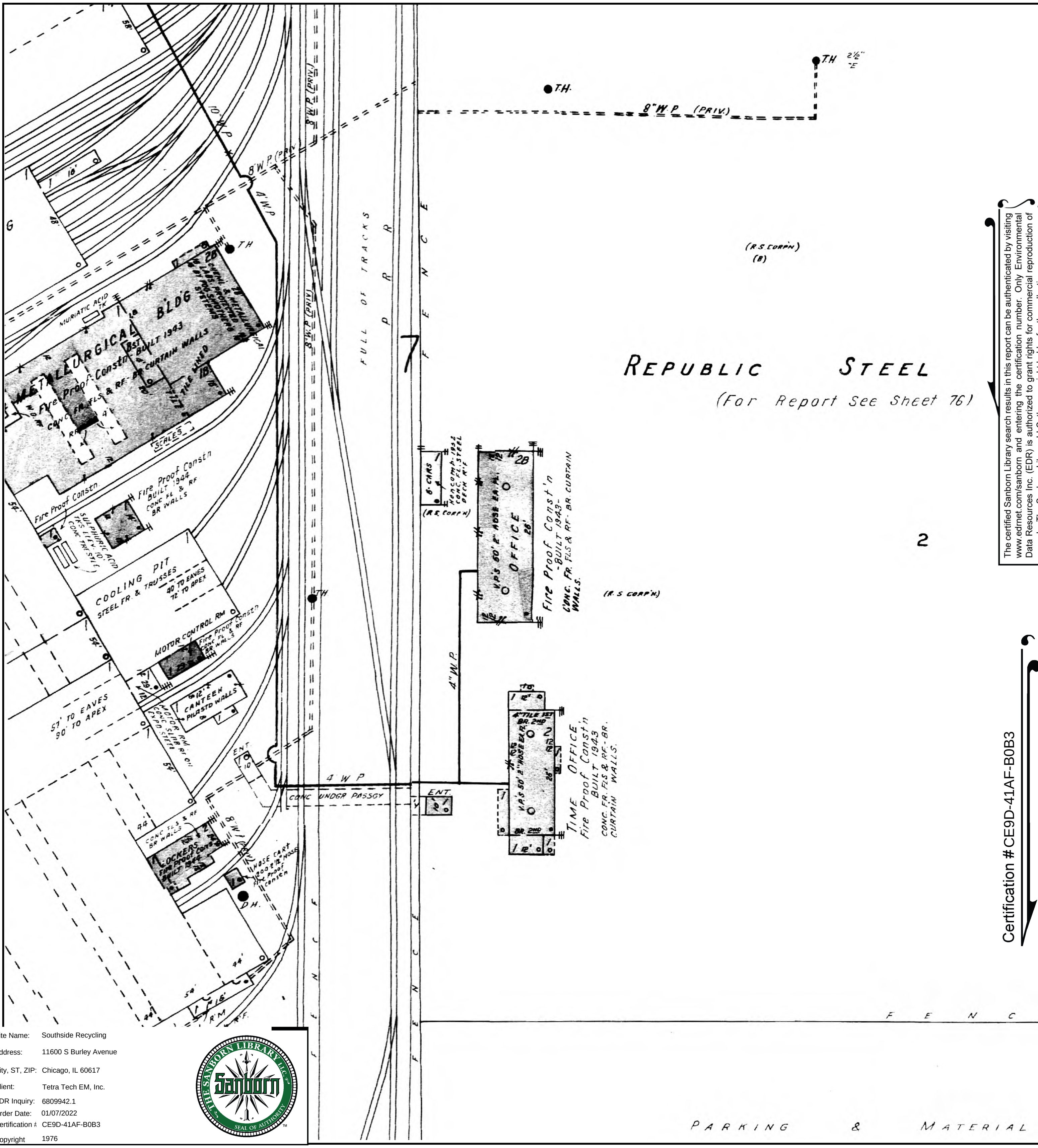
0 Feet 150 300 600

N

Certified Sanborn® Map

1976



Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright 1976

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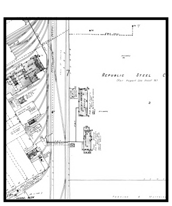

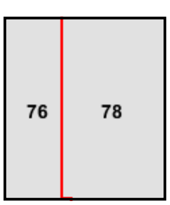

Volume 48, Sheet 78
Volume 48, Sheet 76

N

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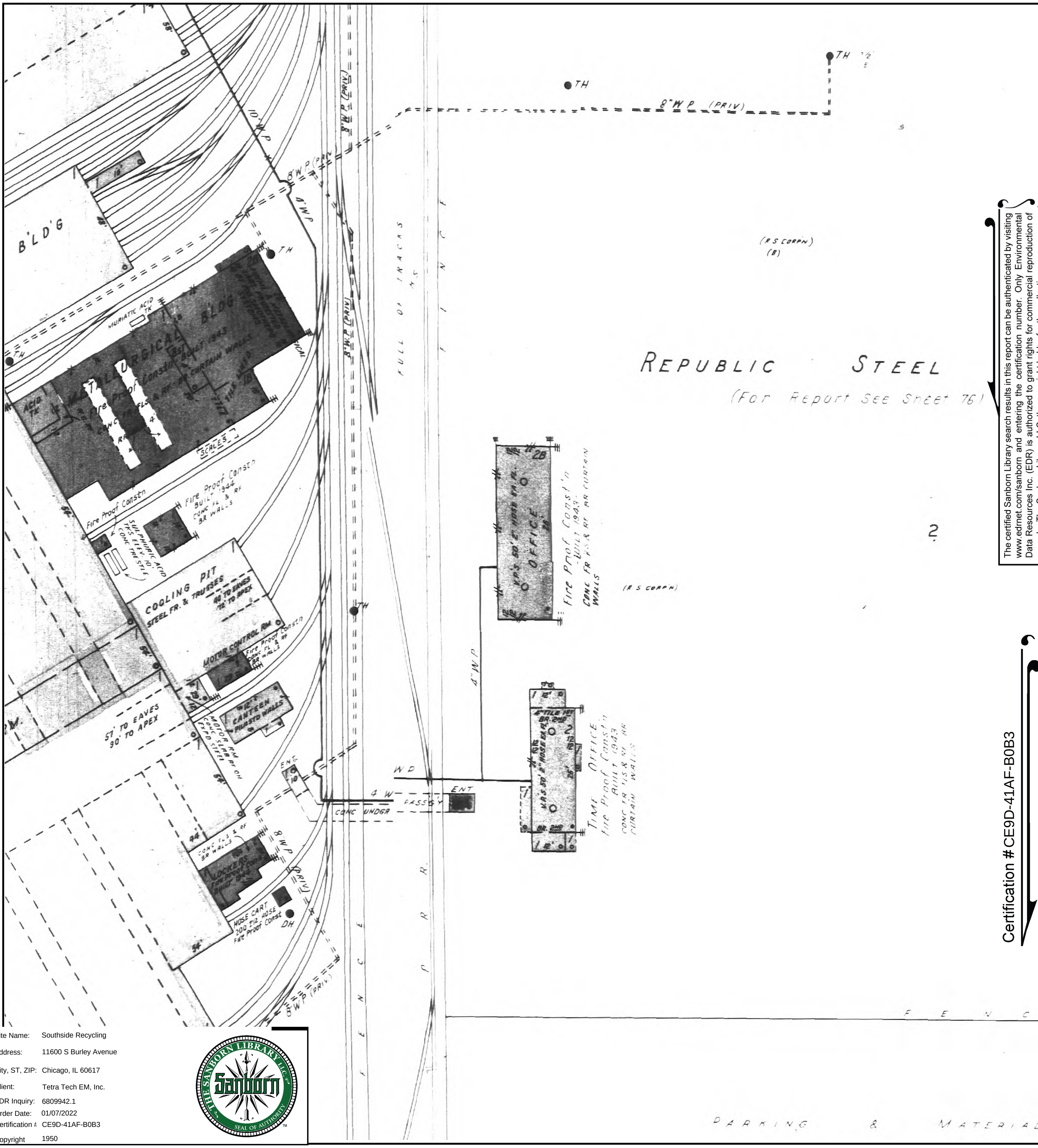
1950



Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1950

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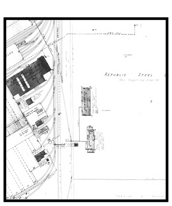

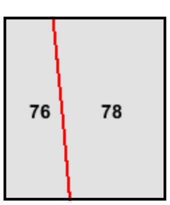

Volume 48, Sheet 78
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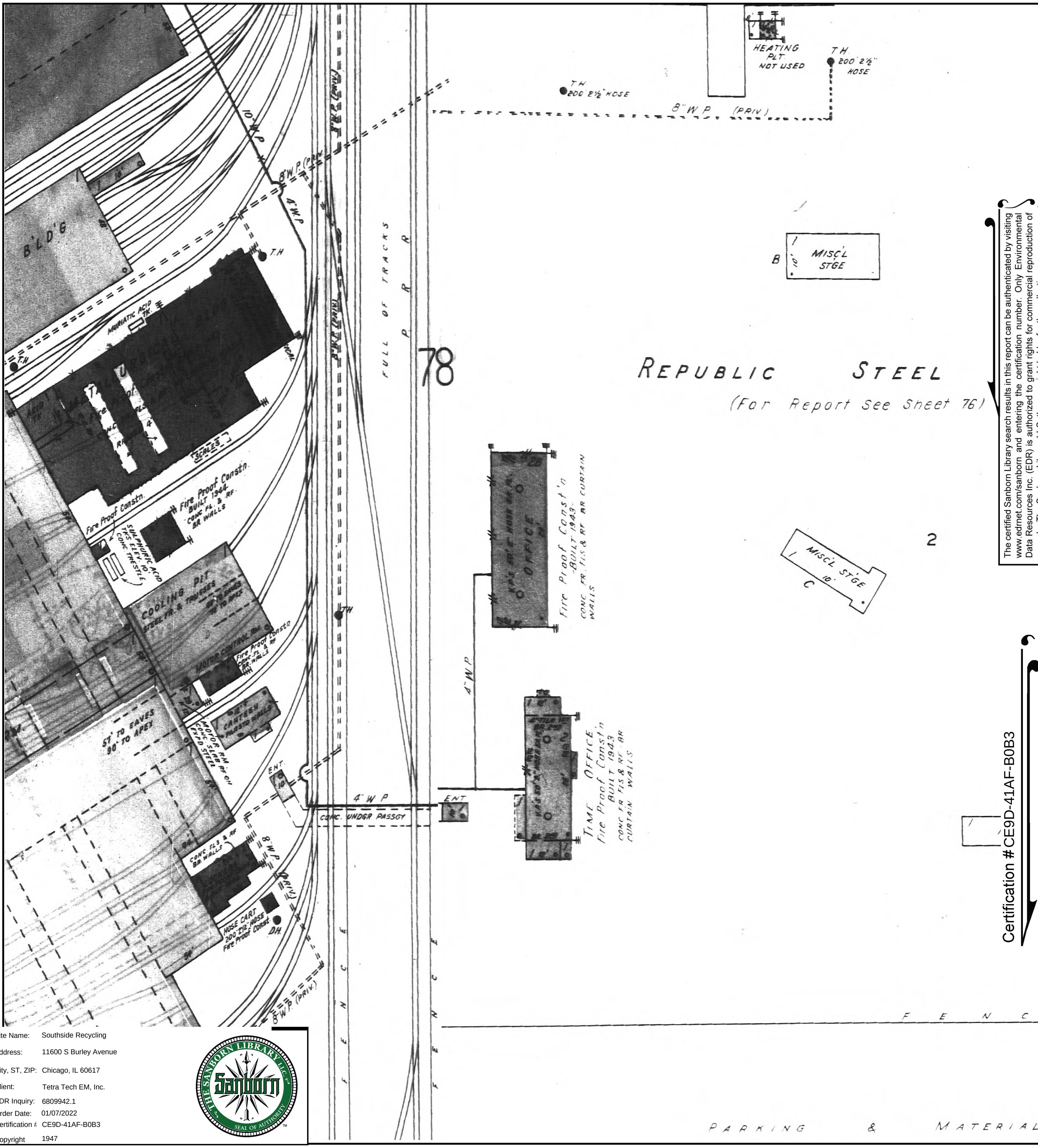

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright 1947

Certification # CE9D-41AF-B0B3

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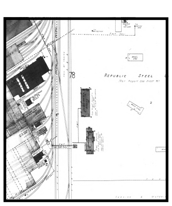
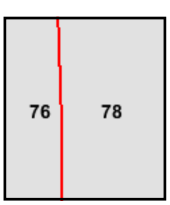




Volume 48, Sheet 78
Volume 48, Sheet 76

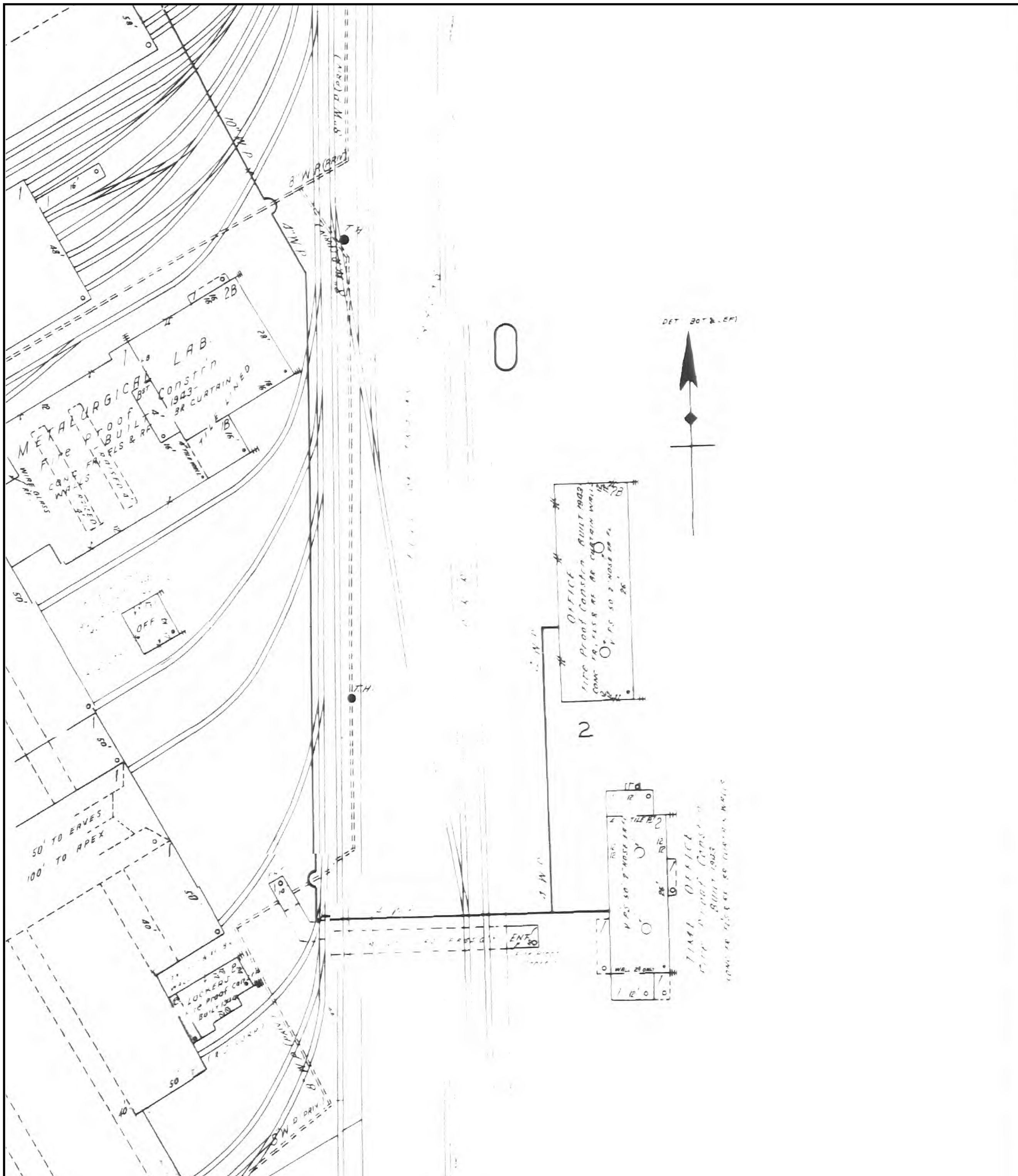
0 Feet 150 300 600

N

EDR

Certified Sanborn® Map

1946



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Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
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Certification #	CE9D-41AF-B0B3
Copyright	1946

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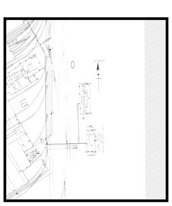

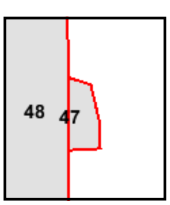

Volume F, Sheet 48
Volume F, Sheet 47

N

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617

Inquiry Number: 6809942.1
January 07, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/07/22

Site Name:	**Client Name:**
Southside Recycling	Tetra Tech EM, Inc.
11600 S Burley Avenue	1 South Wacker Drive, 37th Floor
Chicago, IL 60617	Chicago, IL 60606
EDR Inquiry # 6809942.1	Contact: Stacey Durley

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Certified Sanborn Results:

Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
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1976
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Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

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Sanborn Sheet Key

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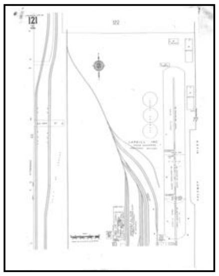
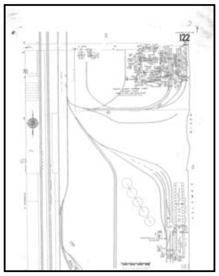
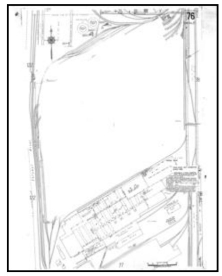
2004 Source Sheets



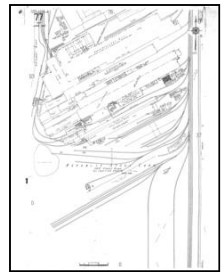
Volume 48, Sheet 121
2004



Volume 48, Sheet 122
2004

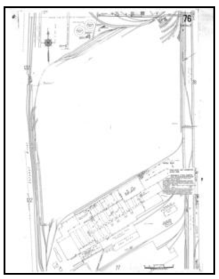


Volume 48, Sheet 76
2004



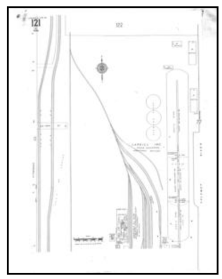
Volume 48, Sheet 77
2004

2002 Source Sheets

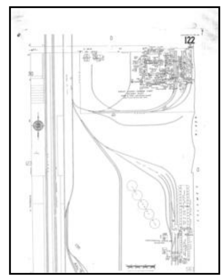


Volume 48, Sheet 76
2002

Volume 48, Sheet 77
2002

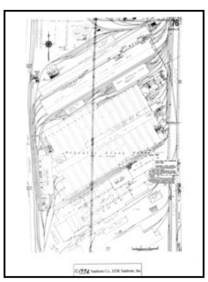


Volume 48, Sheet 121
2002

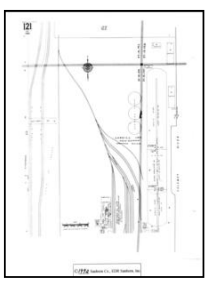


Volume 48, Sheet 122
2002

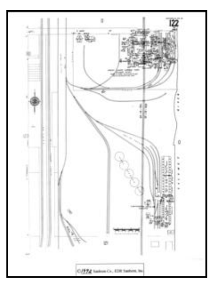
1992 Source Sheets



Volume 48, Sheet 76
1992



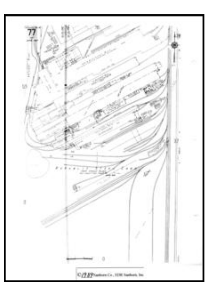
Volume 48, Sheet 121
1992



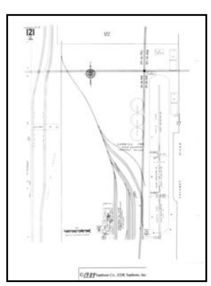
Volume 48, Sheet 122
1992

1989 Source Sheets

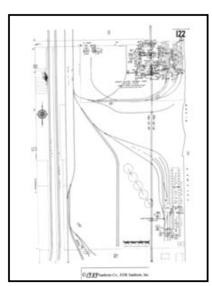
Volume 48, Sheet 76
1989



Volume 48, Sheet 77
1989



Volume 48, Sheet 121
1989



Volume 48, Sheet 122
1989

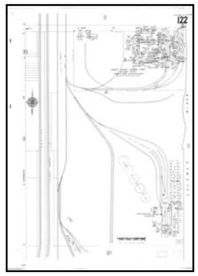
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1987 Source Sheets

Volume 48, Sheet 76
1987

Volume 48, Sheet 77
1987



Volume 48, Sheet 122
1987

1976 Source Sheets

Volume 48, Sheet 24
1976

Volume 48, Sheet 76
1976

Volume 48, Sheet 77
1976

1950 Source Sheets

Volume 48, Sheet 76
1950

Volume 48, Sheet 77
1950

1947 Source Sheets

Volume 48, Sheet 76
1947

Sanborn Sheet Key

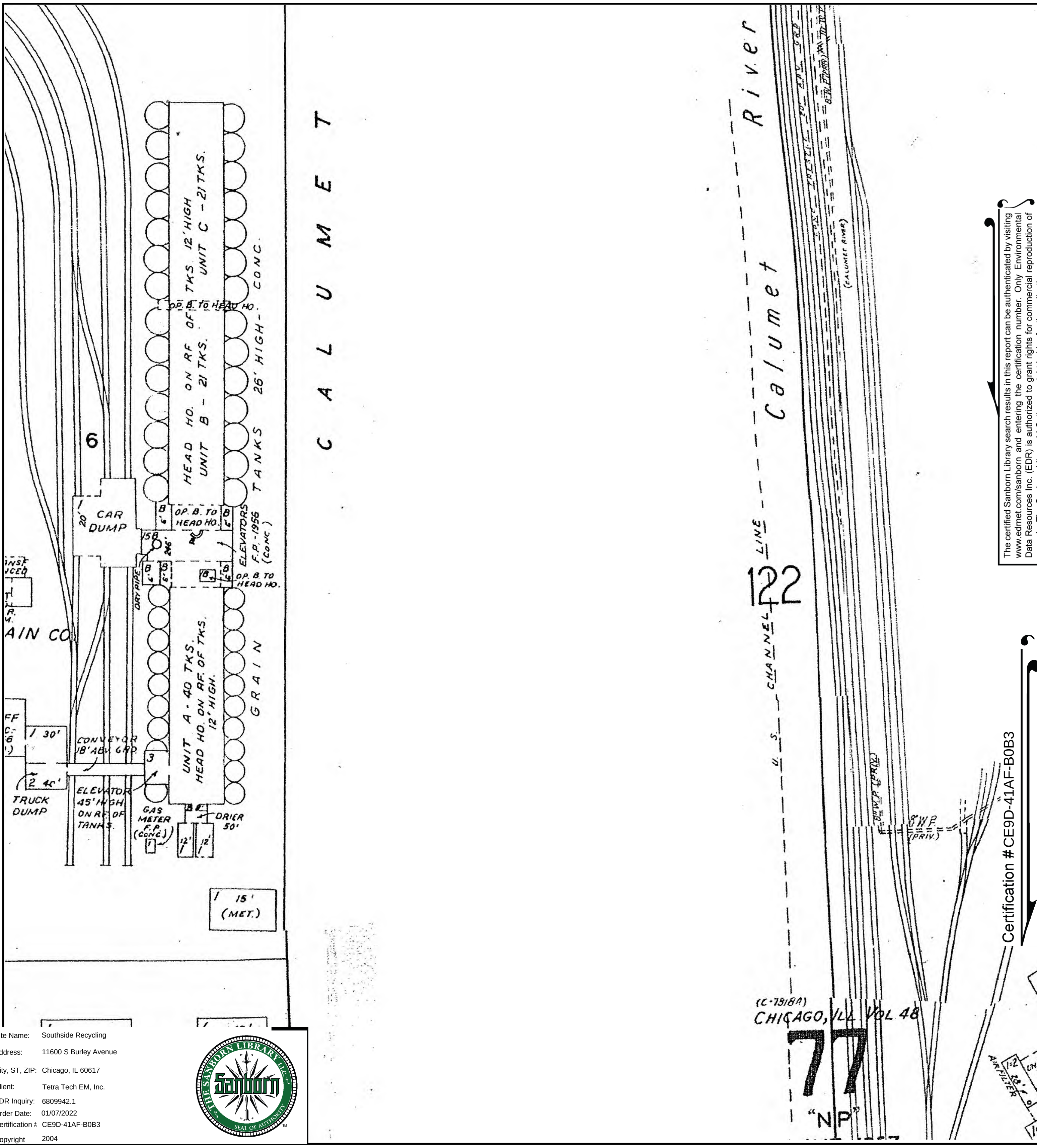
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1946 Source Sheets

Volume F, Sheet 48
1946

Certified Sanborn® Map

2004



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Certification # CE9D-41AF-B0B3

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright 2004

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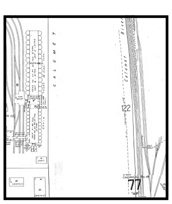
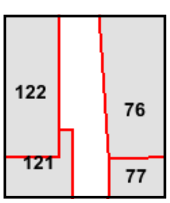
Outlined areas indicate map sheets within the collection.





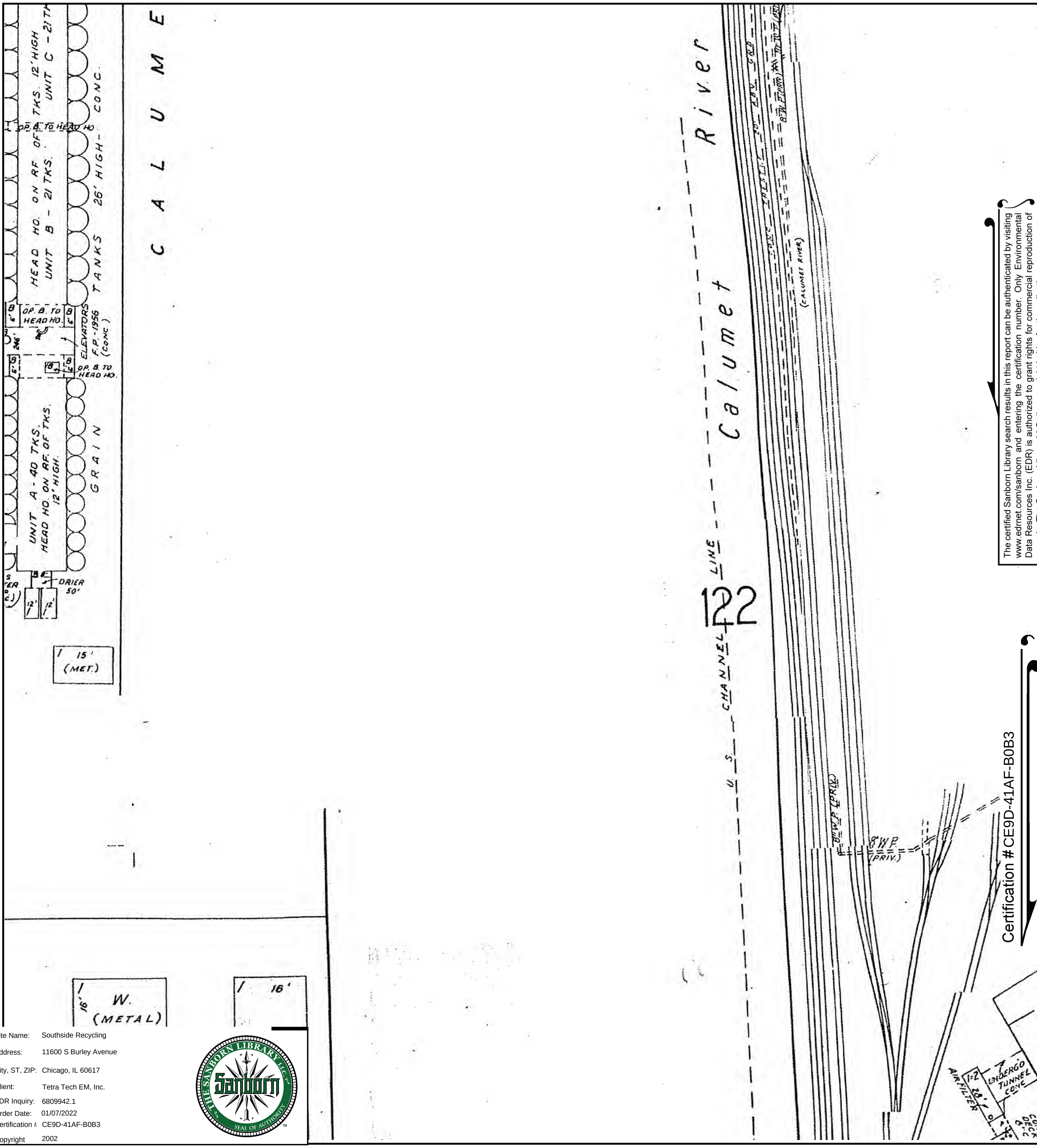
Volume 48, Sheet 77
Volume 48, Sheet 76
Volume 48, Sheet 122
Volume 48, Sheet 121

0 Feet 150 300 600

N

Certified Sanborn® Map

2002



Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
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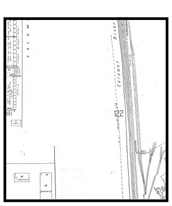
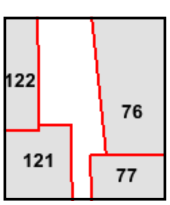




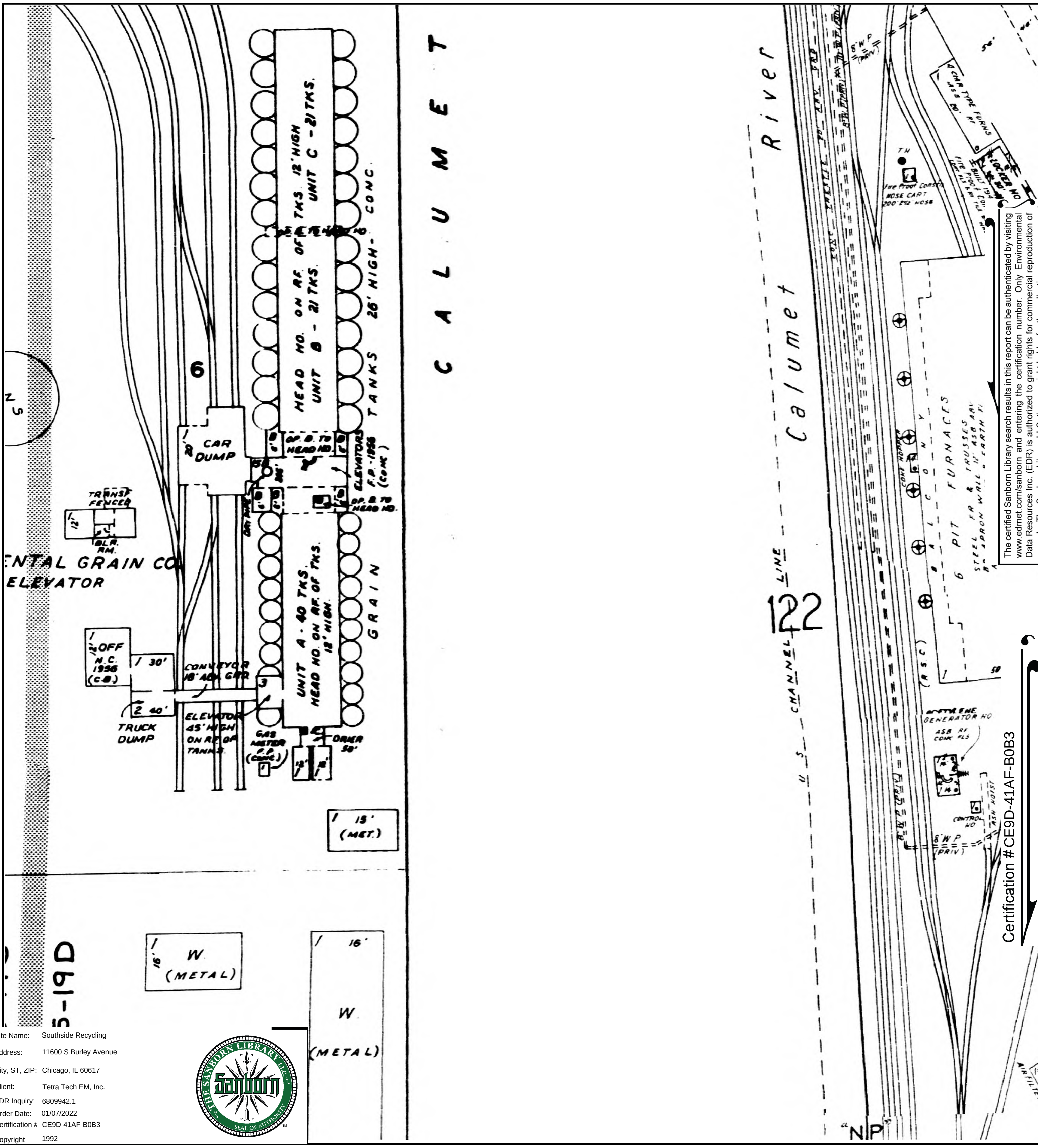
Volume 48, Sheet 122
Volume 48, Sheet 121
Volume 48, Sheet 77
Volume 48, Sheet 76

0 Feet 150 300 600

N

Certified Sanborn® Map

1992



Site Name: Southside Recycling

Address: 11600 S Burley Avenue

City, ST, ZIP: Chicago, IL 60617

Client: Tetra Tech EM, Inc.

EDR Inquiry: 6809942.1

Order Date: 01/07/2022

Certification #: CE9D-41AF-B0B3

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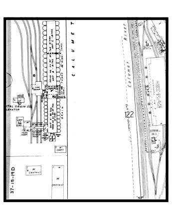

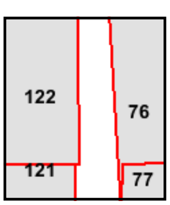

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Volume 48, Sheet 121
Volume 48, Sheet 76

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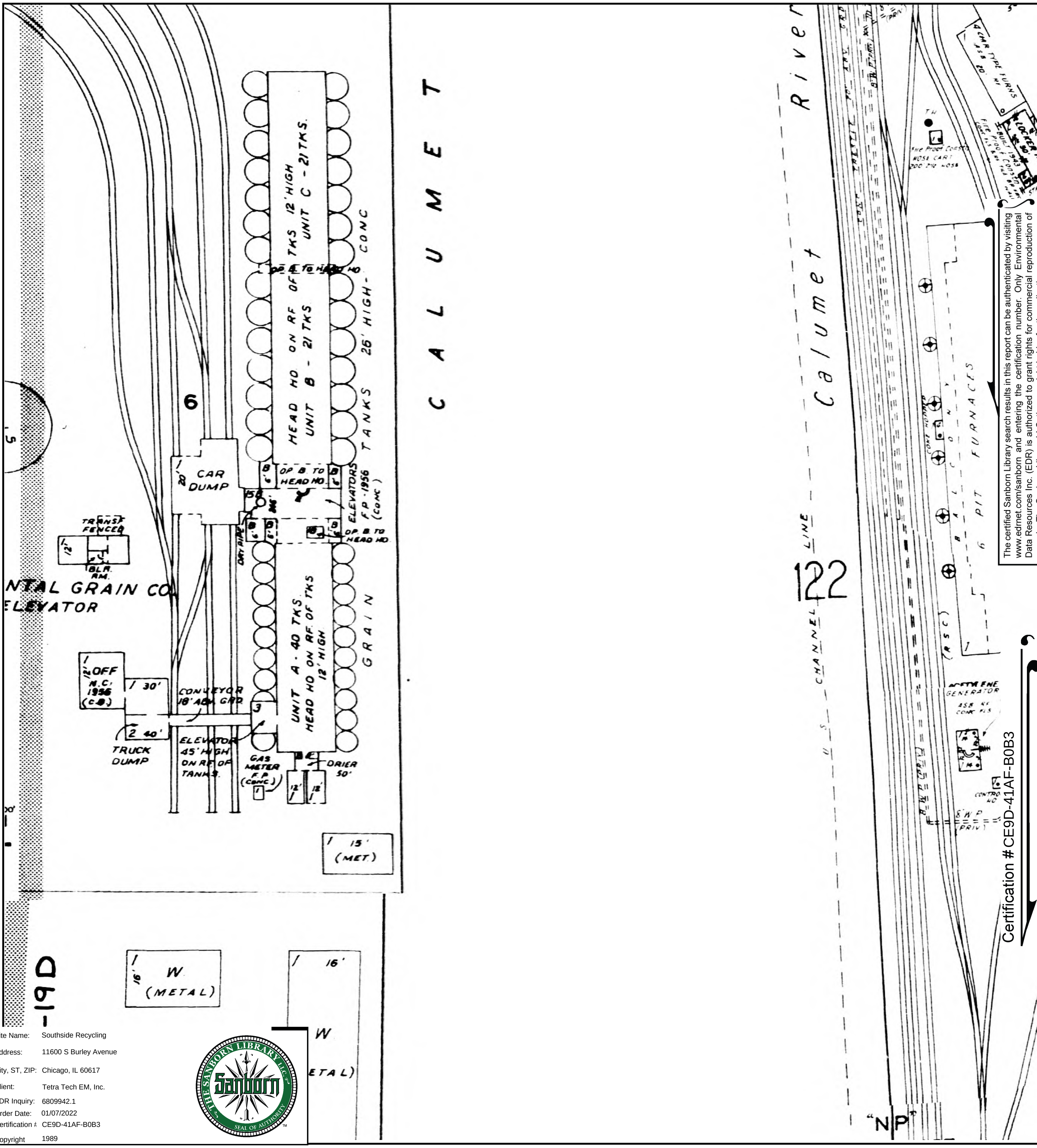
Certified Sanborn® Map

1989



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Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
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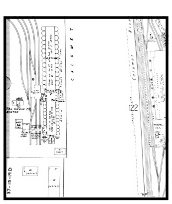

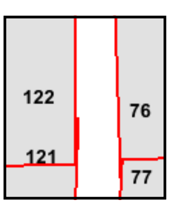

Volume 48, Sheet 122
Volume 48, Sheet 121
Volume 48, Sheet 77
Volume 48, Sheet 76

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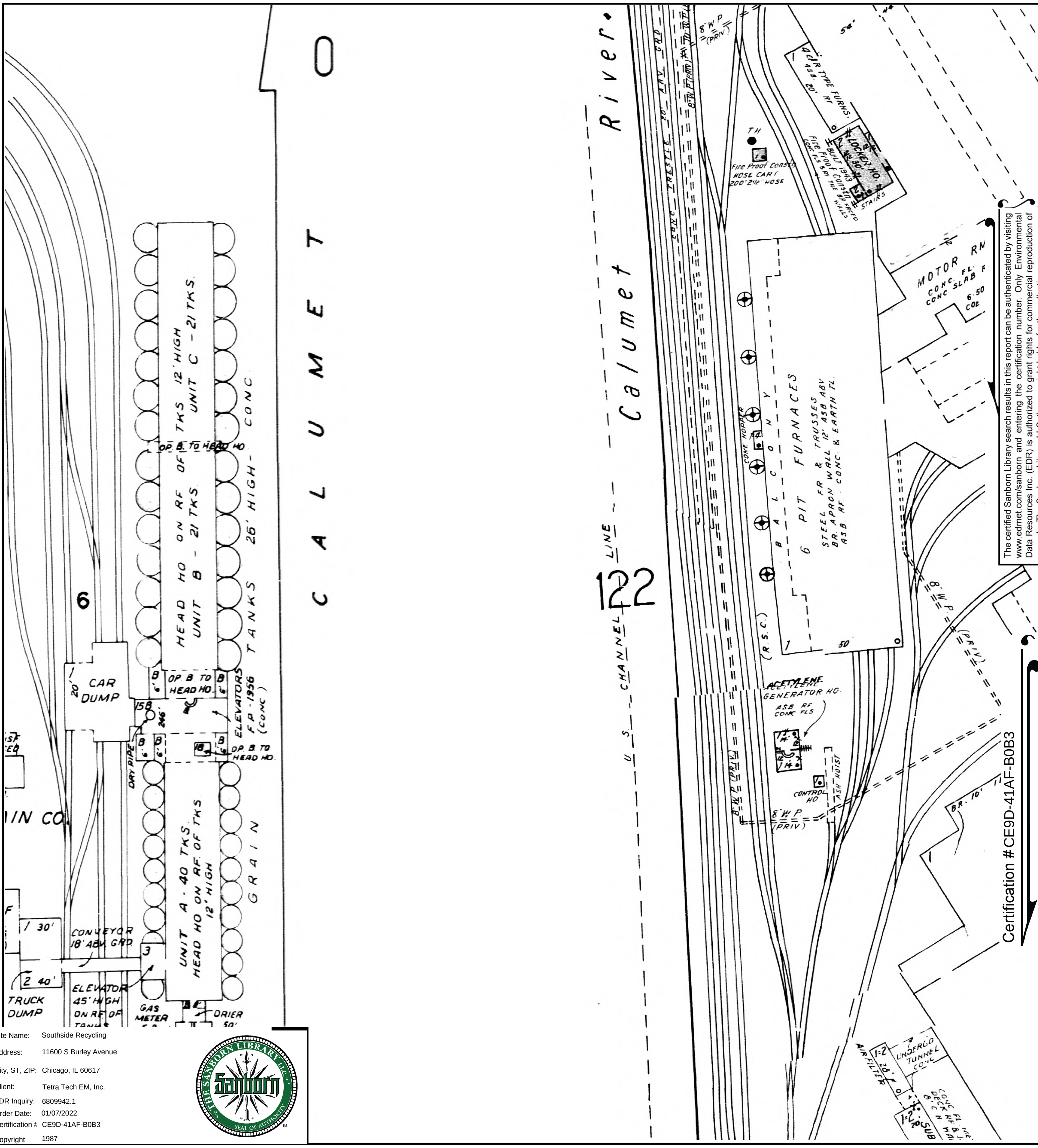

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #:	CE9D-41AF-B0B3
Copyright	1987

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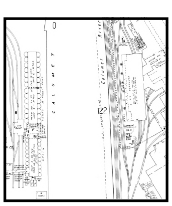

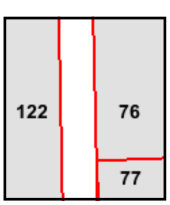

Volume 48, Sheet 122
Volume 48, Sheet 77
Volume 48, Sheet 76

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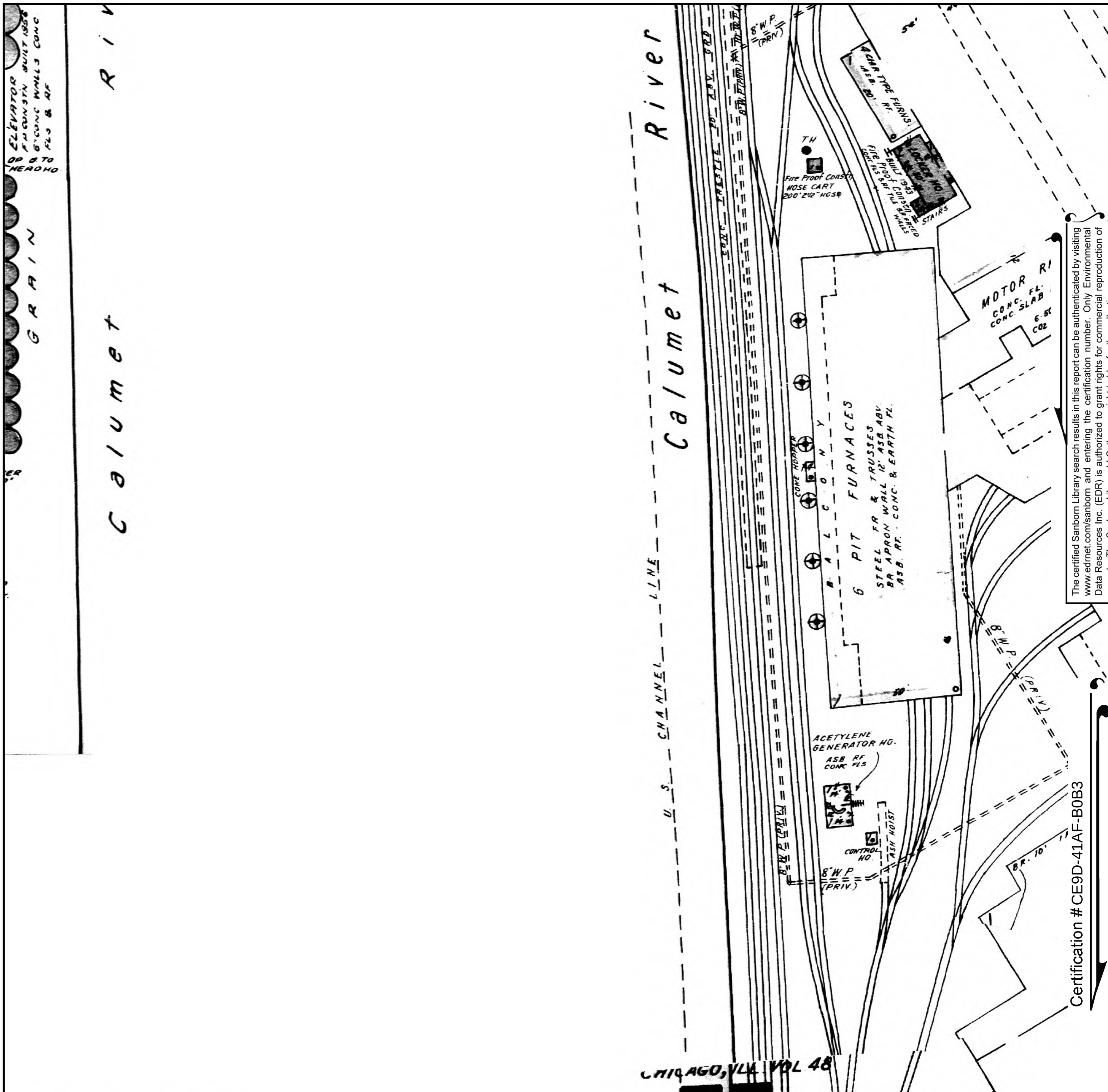

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Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #:	CE9D-41AF-B0B3
Copyright	1976

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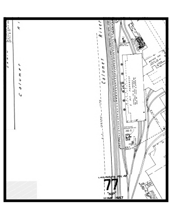
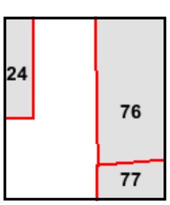


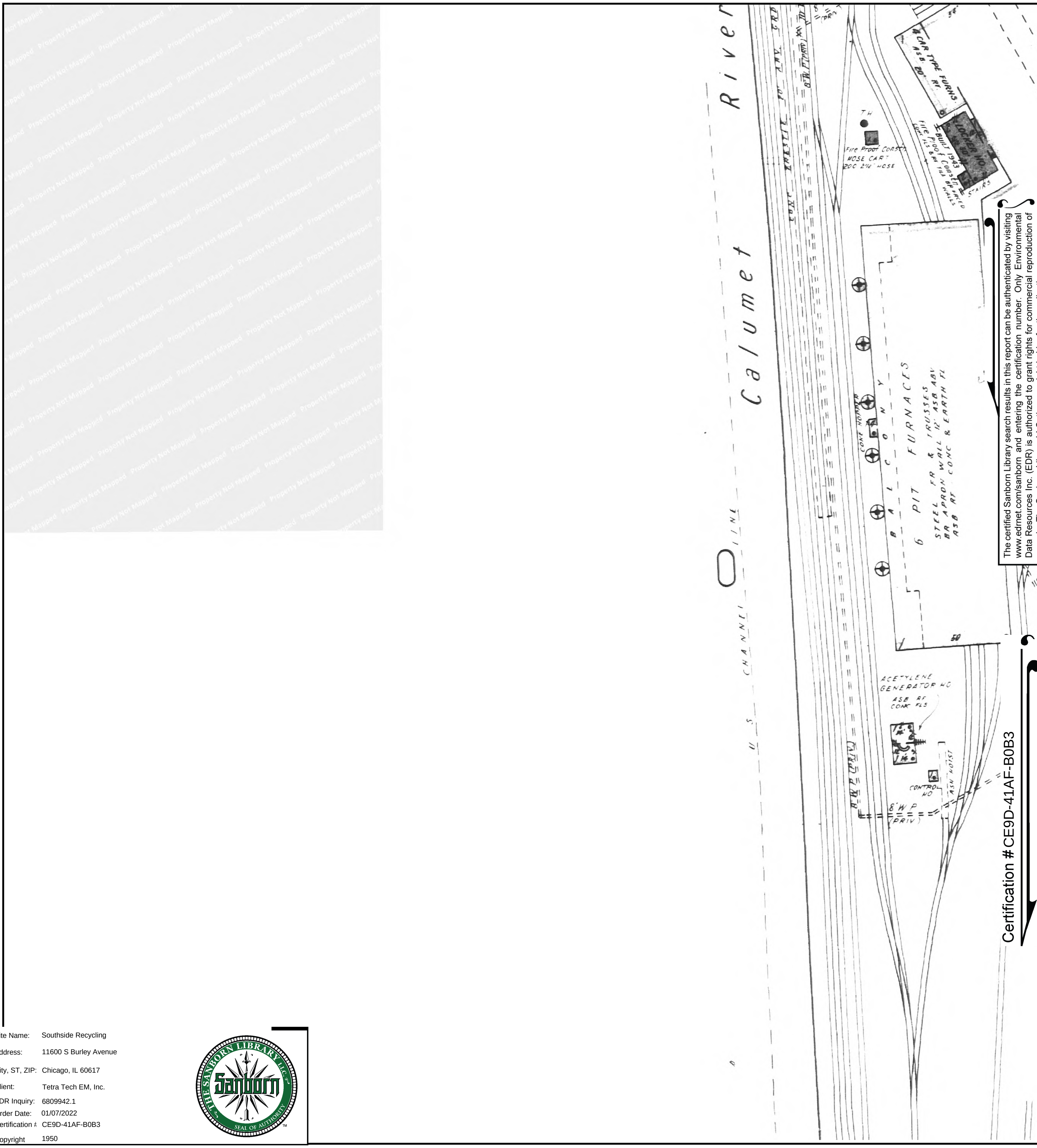


Volume 48, Sheet 77
Volume 48, Sheet 76
Volume 48, Sheet 24

N

Certified Sanborn® Map

1950



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Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #:	CE9D-41AF-B0B3
Copyright	1950

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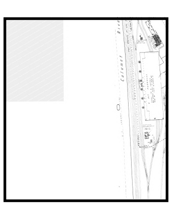

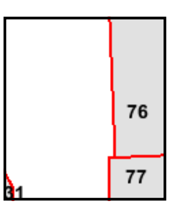

Volume 48, Sheet 77
Volume 48, Sheet 76

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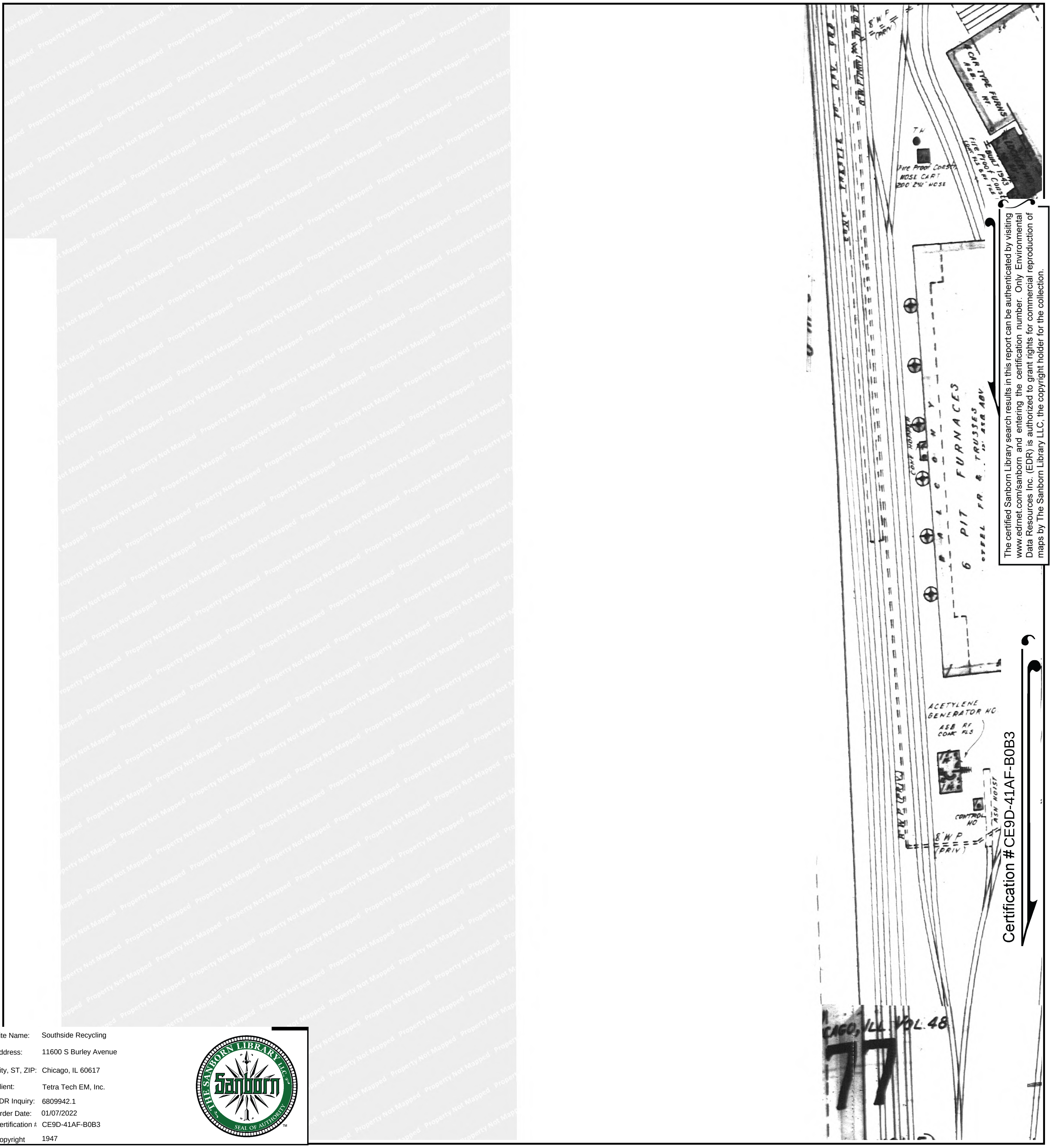

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1947

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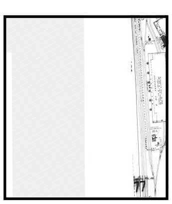

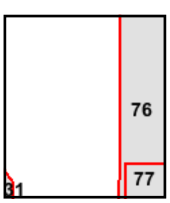

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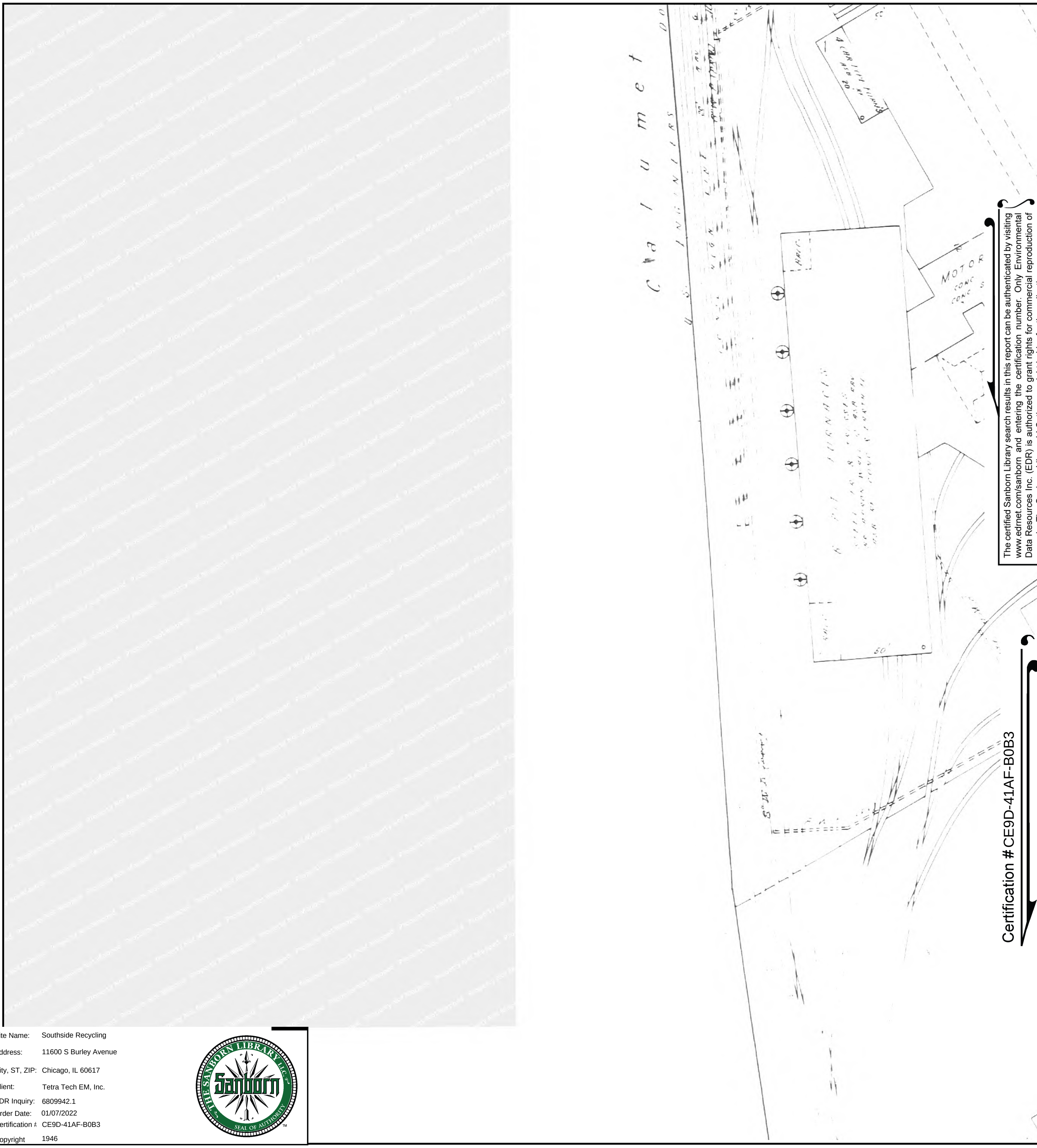
Certified Sanborn® Map

1946



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Certification # CE9D-41AF-B0B3

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1946

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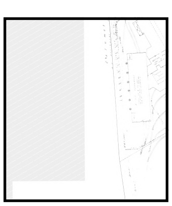

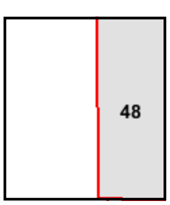

Volume F, Sheet 48

0 Feet 150 300 600

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Southside Recycling

11600 S Burley Avenue

Chicago, IL 60617

Inquiry Number: 6809942.1

January 07, 2022

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Shelton, CT 06484
Toll Free: 800.352.0050
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Certified Sanborn® Map Report

01/07/22

Site Name:

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617
EDR Inquiry # 6809942.1

Client Name:

Tetra Tech EM, Inc.
1 South Wacker Drive, 37th Floor
Chicago, IL 60606
Contact: Stacey Durley

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Certified Sanborn Results:

Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946
1913

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Key

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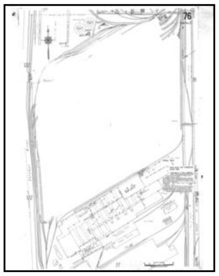
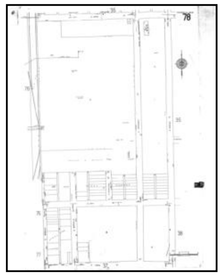
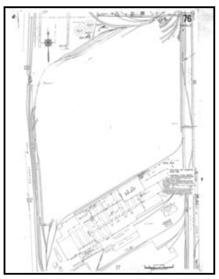
2004 Source Sheets


Volume 48, Sheet 76
2004

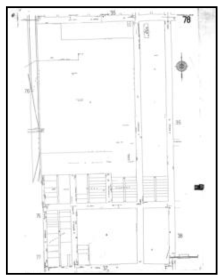

Volume 48, Sheet 77
2004


Volume 48, Sheet 78
2004

2002 Source Sheets


Volume 48, Sheet 76
2002


Volume 48, Sheet 77
2002


Volume 48, Sheet 78
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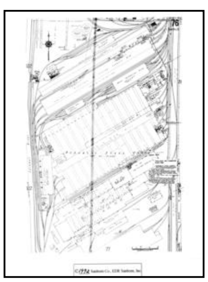
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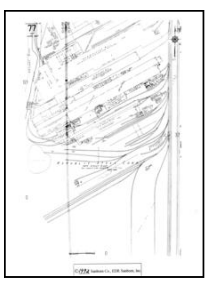
Volume 48, Sheet 77
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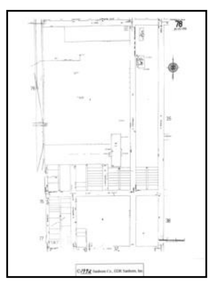
Volume 48, Sheet 78
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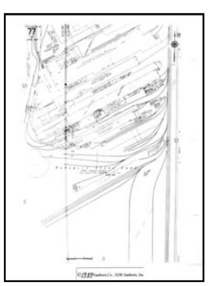
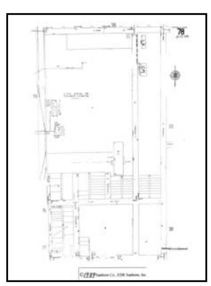
1989 Source Sheets


Volume 48, Sheet 76
1989


Volume 48, Sheet 77
1989


Volume 48, Sheet 78
1989

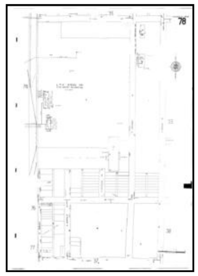
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1987 Source Sheets


Volume 48, Sheet 76
1987

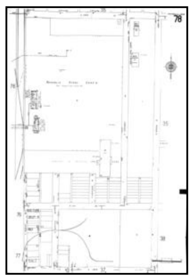

Volume 48, Sheet 77
1987


Volume 48, Sheet 78
1987

1976 Source Sheets


Volume 48, Sheet 76
1976


Volume 48, Sheet 77
1976


Volume 48, Sheet 78
1976

1950 Source Sheets


Volume 48, Sheet 76
1950

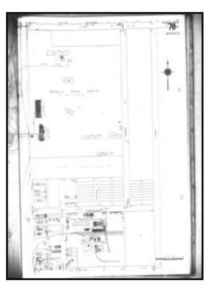

Volume 48, Sheet 77
1950


Volume 48, Sheet 78
1950

1947 Source Sheets


Volume 48, Sheet 76
1947


Volume 48, Sheet 77
1947


Volume 48, Sheet 78
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Sanborn Sheet Key

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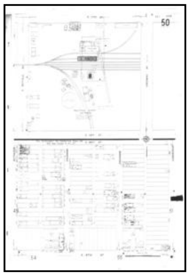
1946 Source Sheets



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1946

Volume F, Sheet 48
1946

1913 Source Sheets

Volume F, Sheet 128
1913

Certified Sanborn® Map

2004

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
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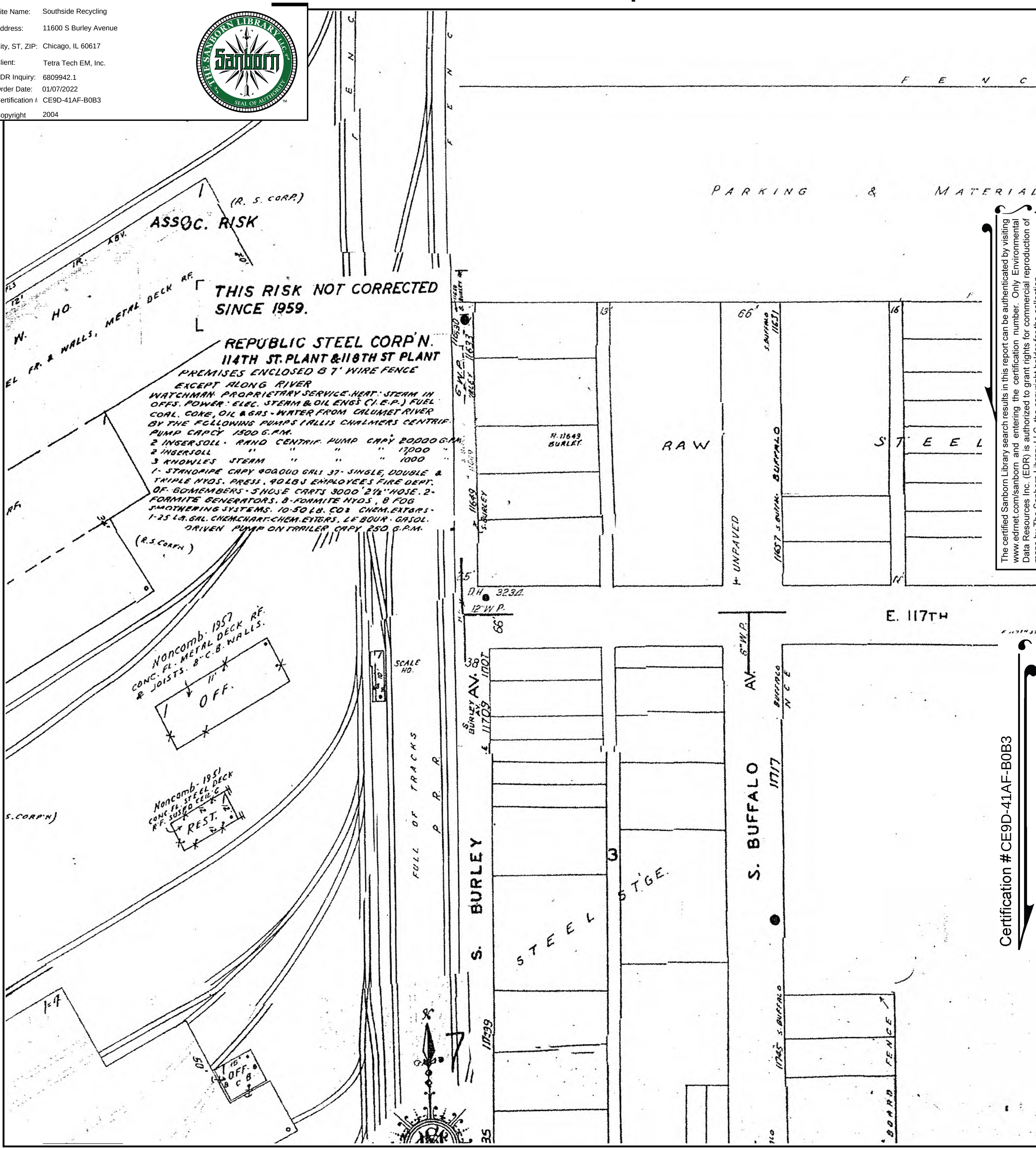

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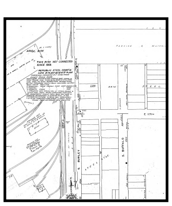
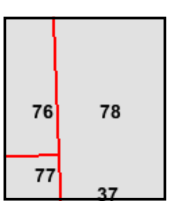
Outlined areas indicate map sheets within the collection.





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Volume 48, Sheet 76

0 Feet 150 300 600

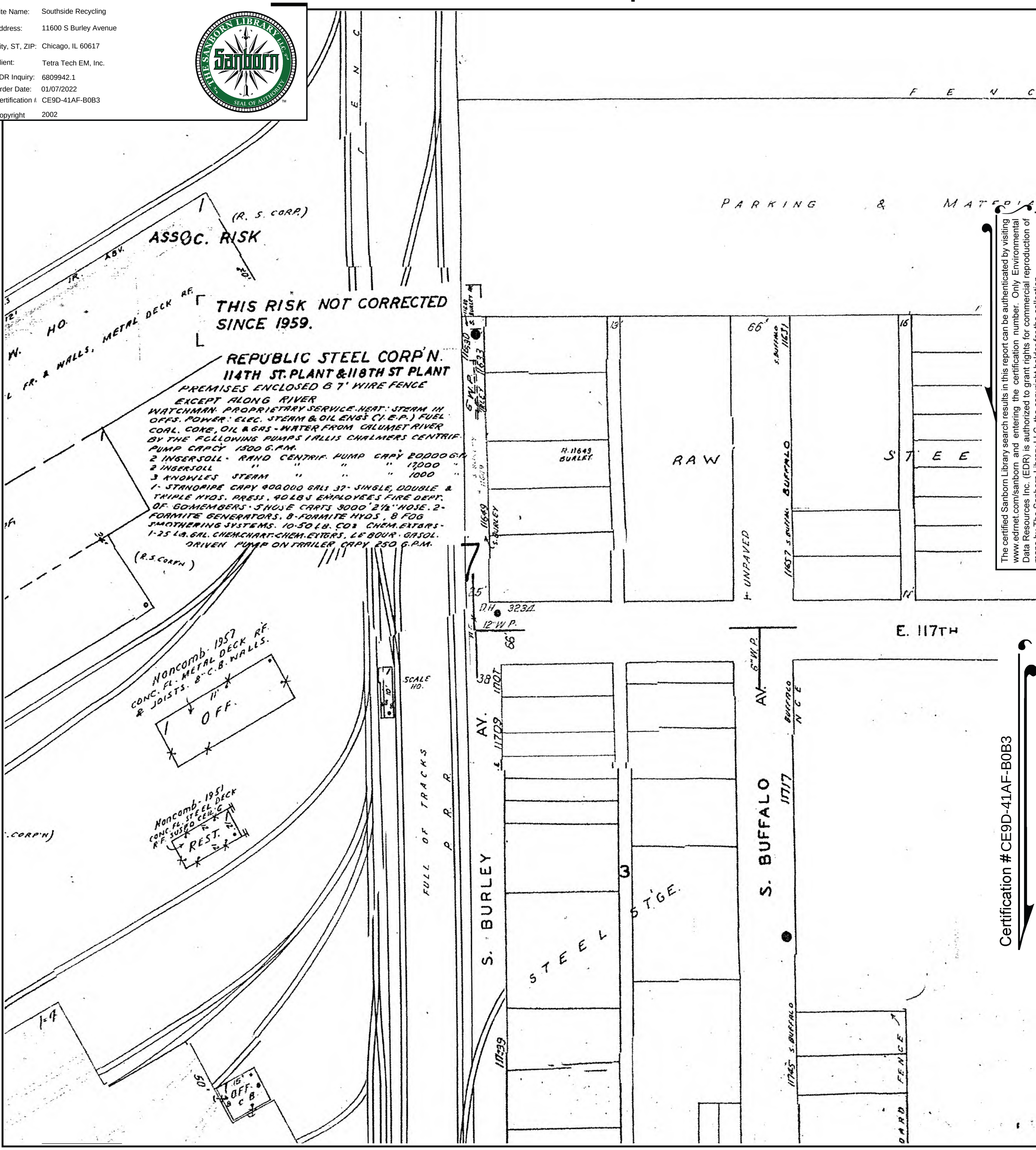
N

EDR®

Certified Sanborn® Map

2002

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 2002



Certification # CE9D-41AF-B0B3

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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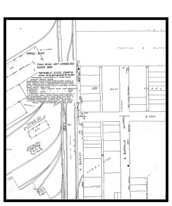

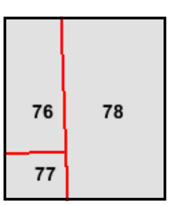

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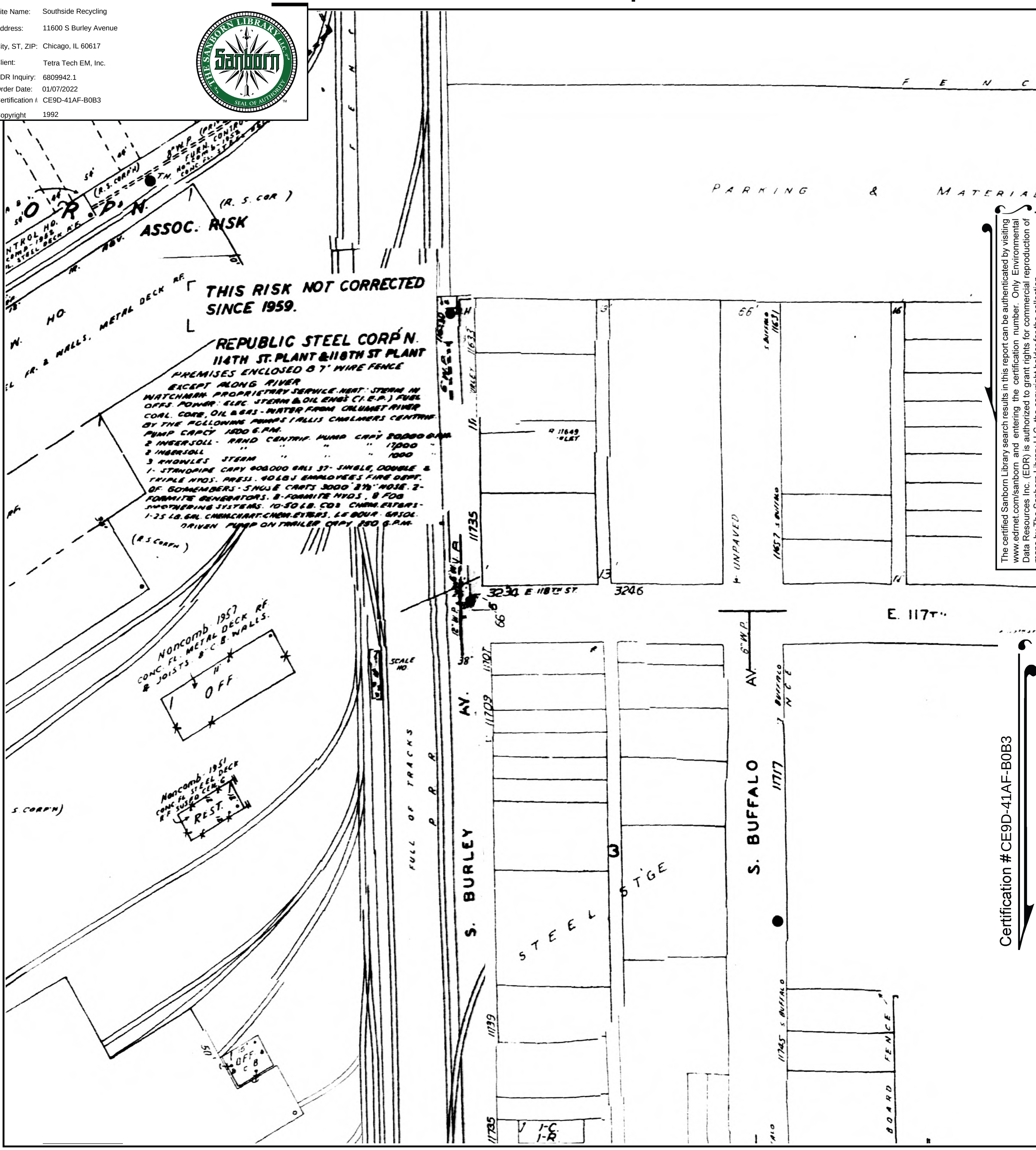
N

Certified Sanborn® Map

1992

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright 1992



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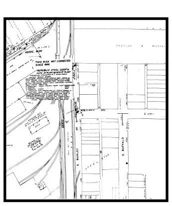

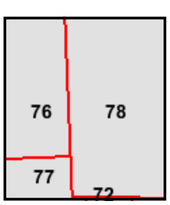

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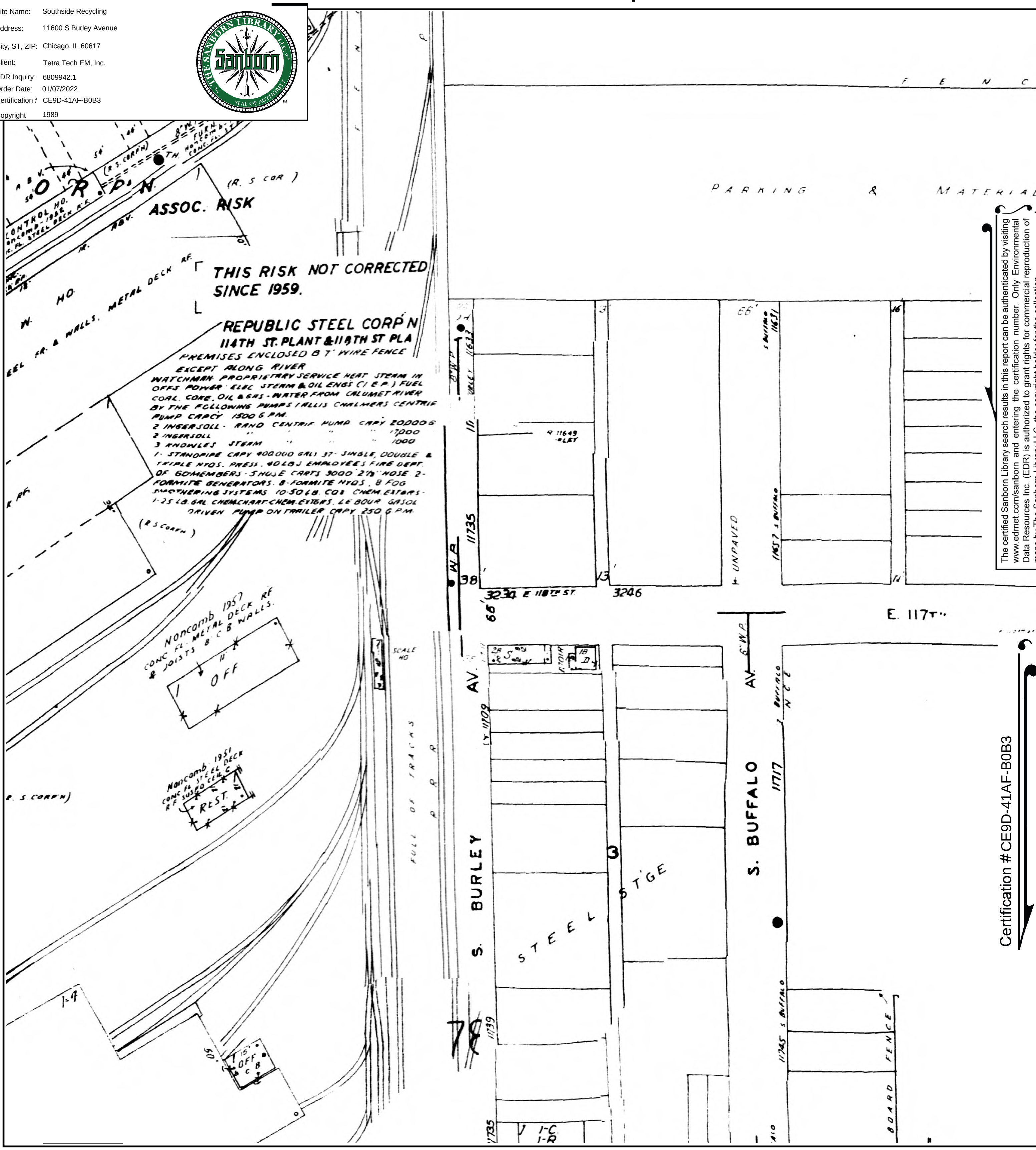
Volume 48, Sheet 76

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1989



Certification #CE9D-41AF-B0B3

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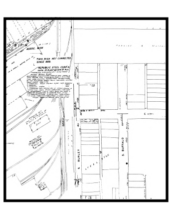

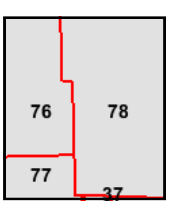

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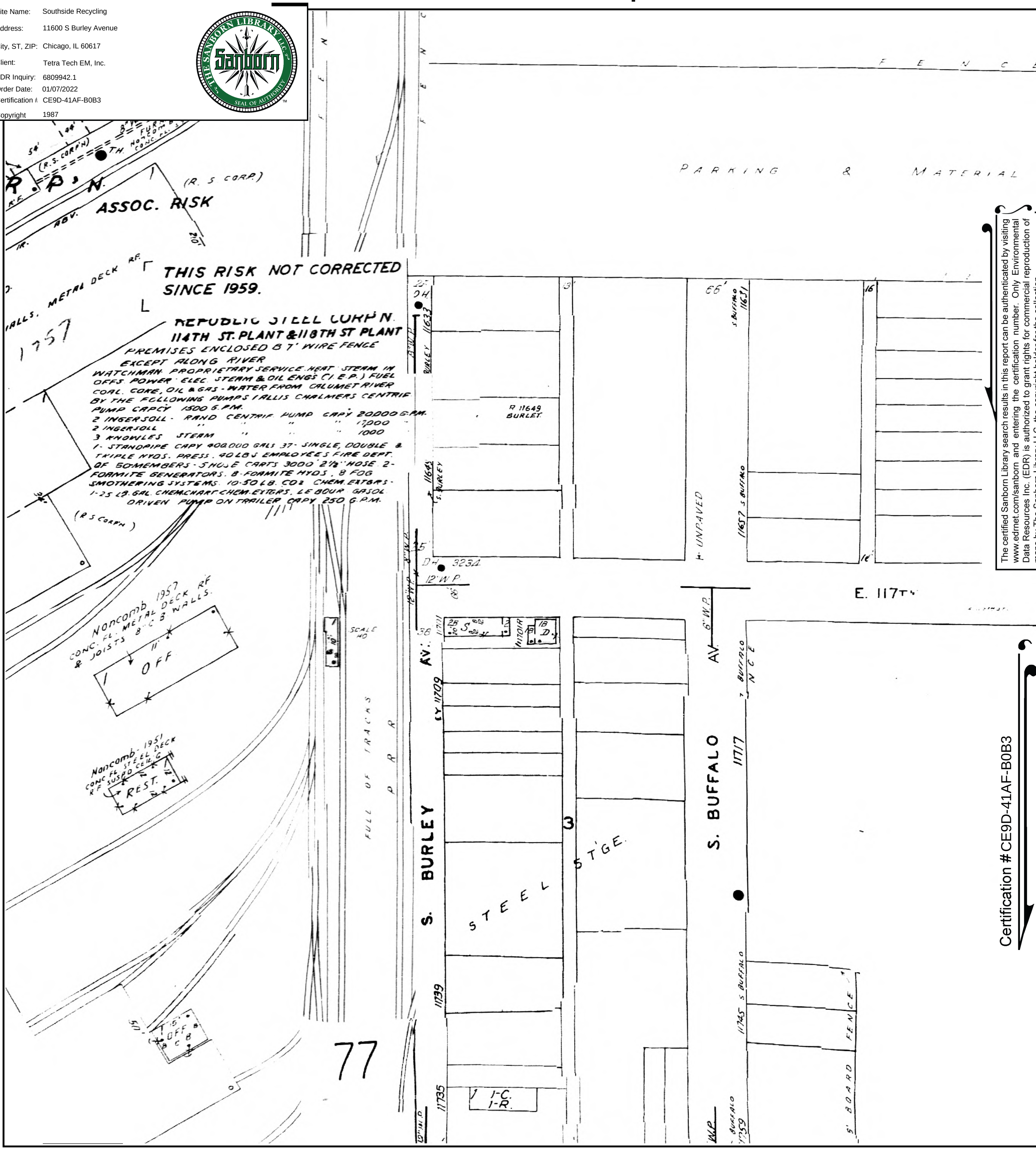
Volume 48, Sheet 76

0 Feet 150 300 600

N

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1987



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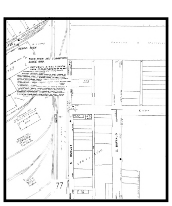

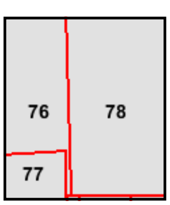

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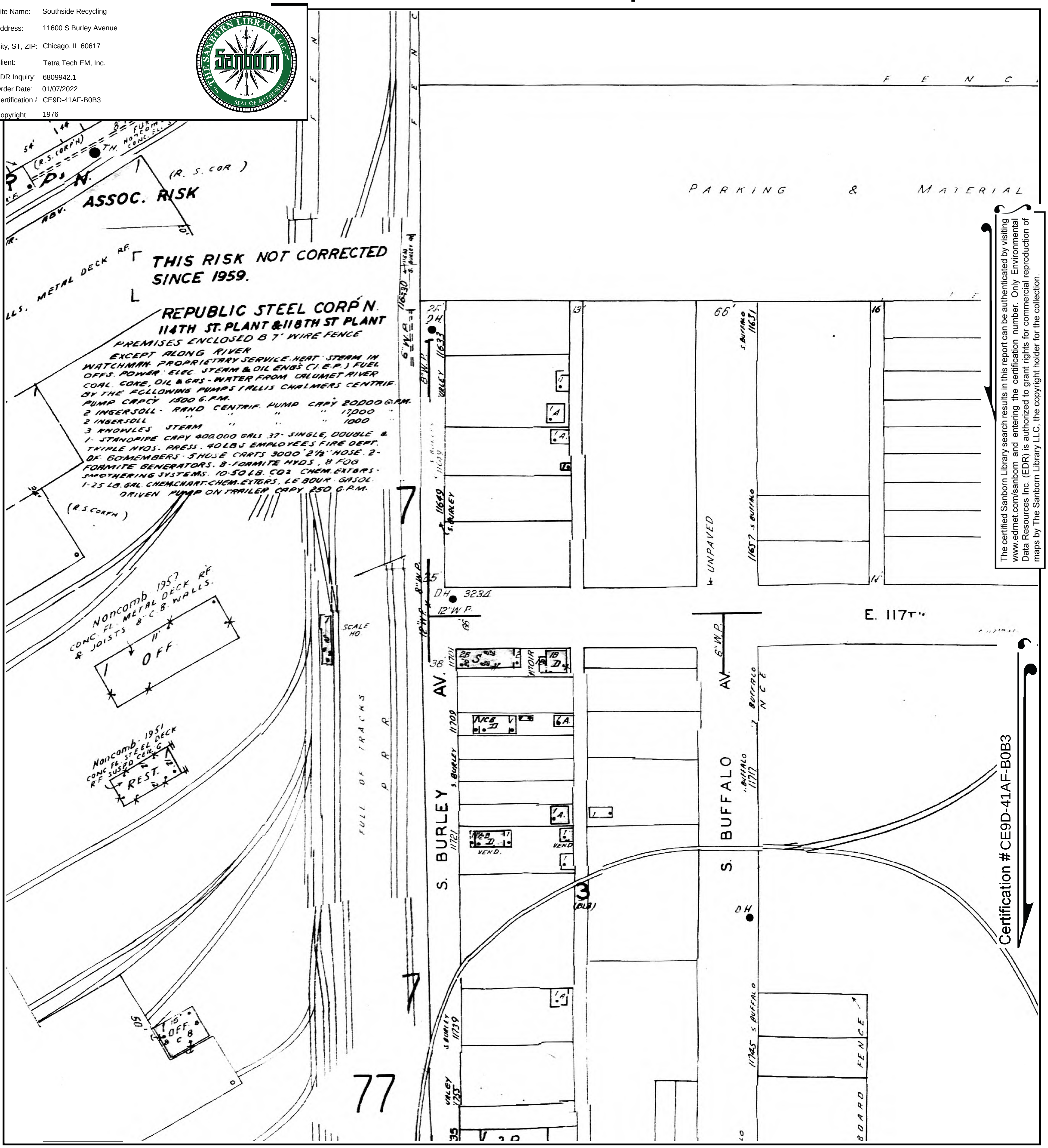
Certified Sanborn® Map

1976

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1976



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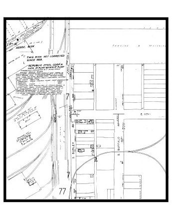

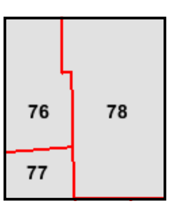

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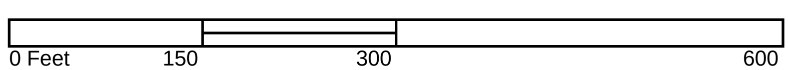

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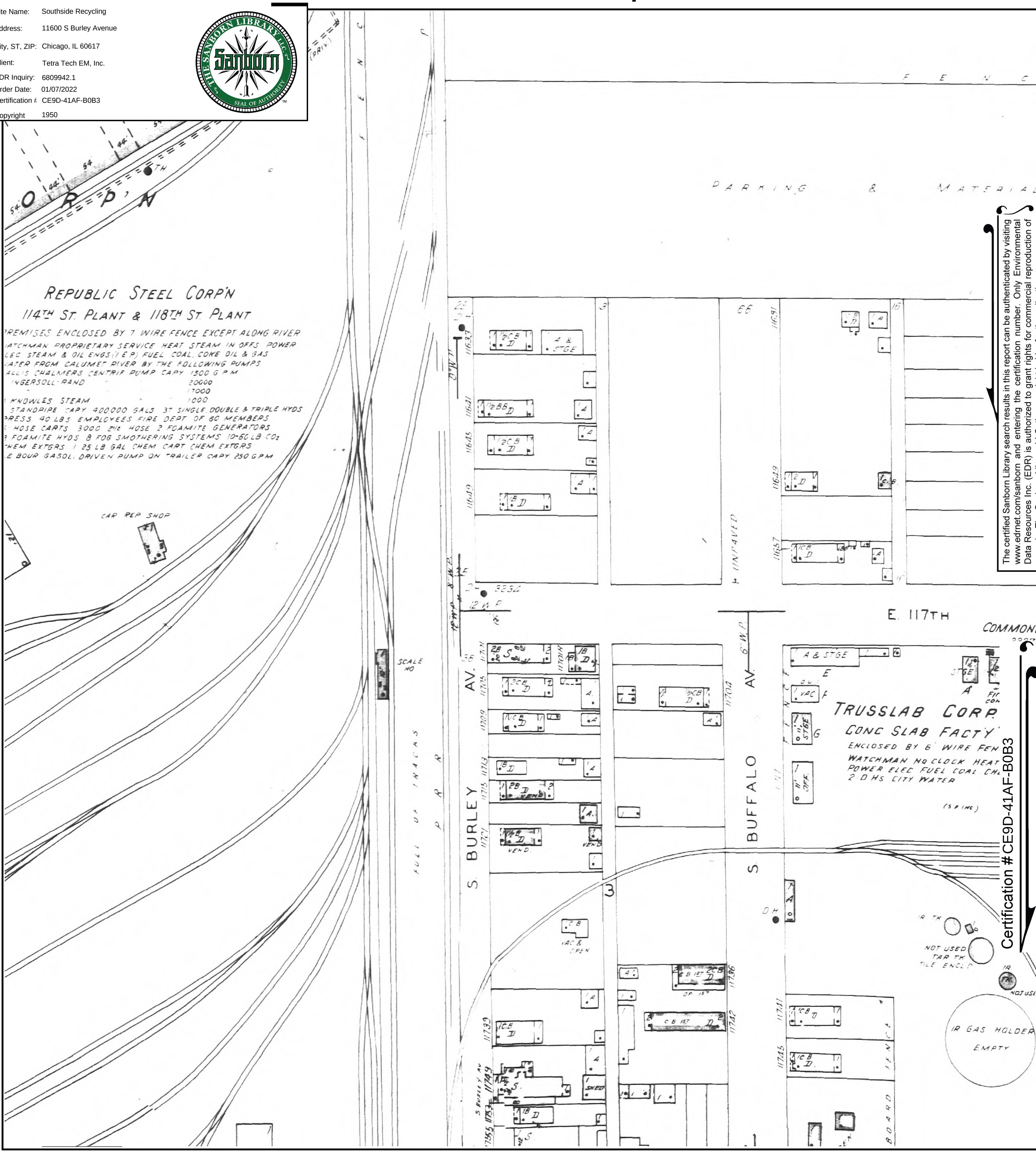
Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1950



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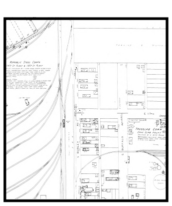

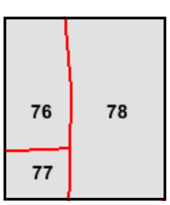

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Volume 48, Sheet 76

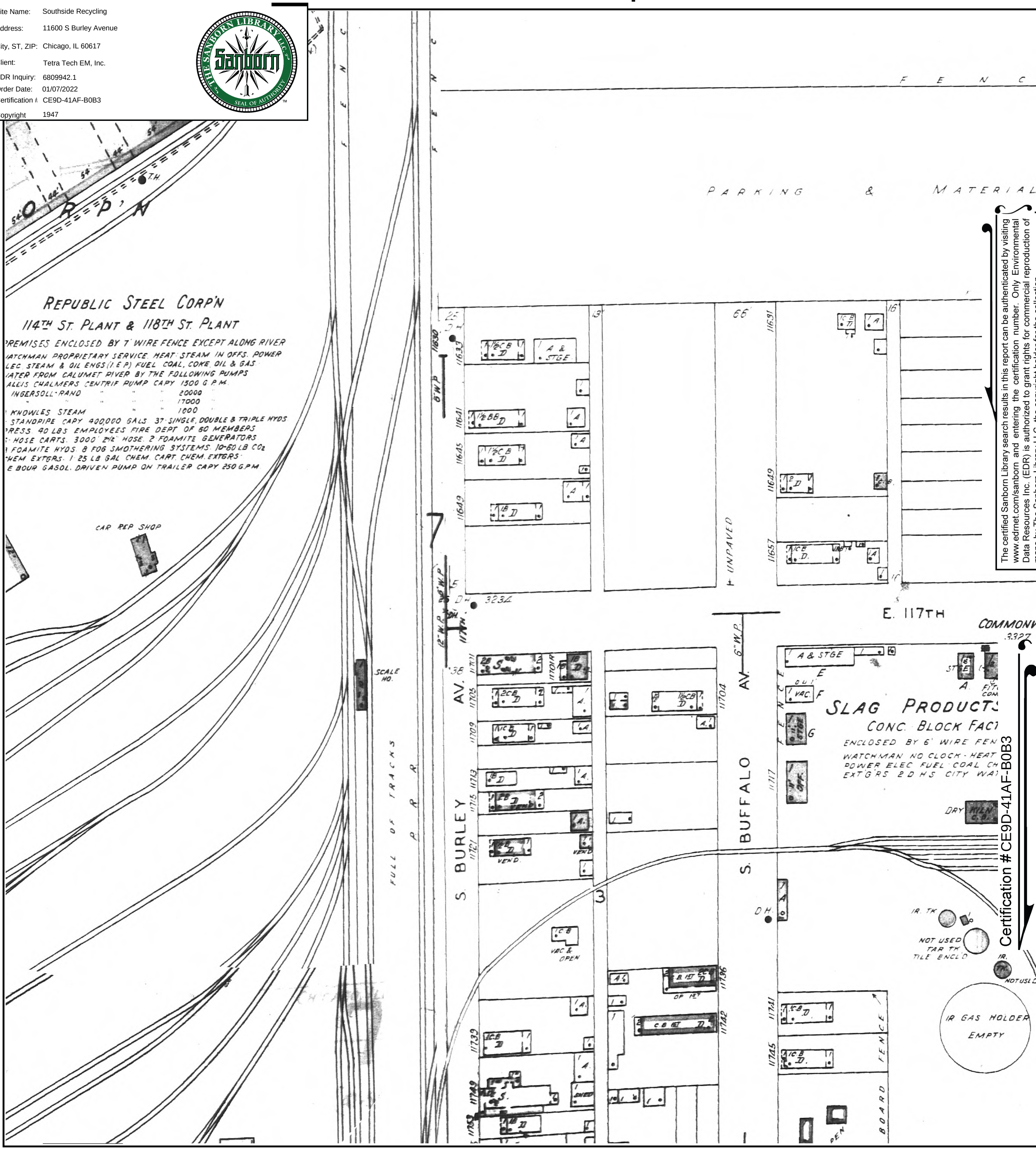
0 Feet 150 300 600

N

Certified Sanborn® Map

1947

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1947



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Outlined areas indicate map sheets within the collection.

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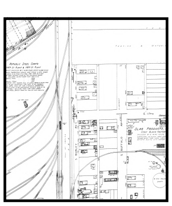

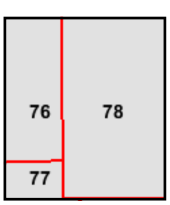

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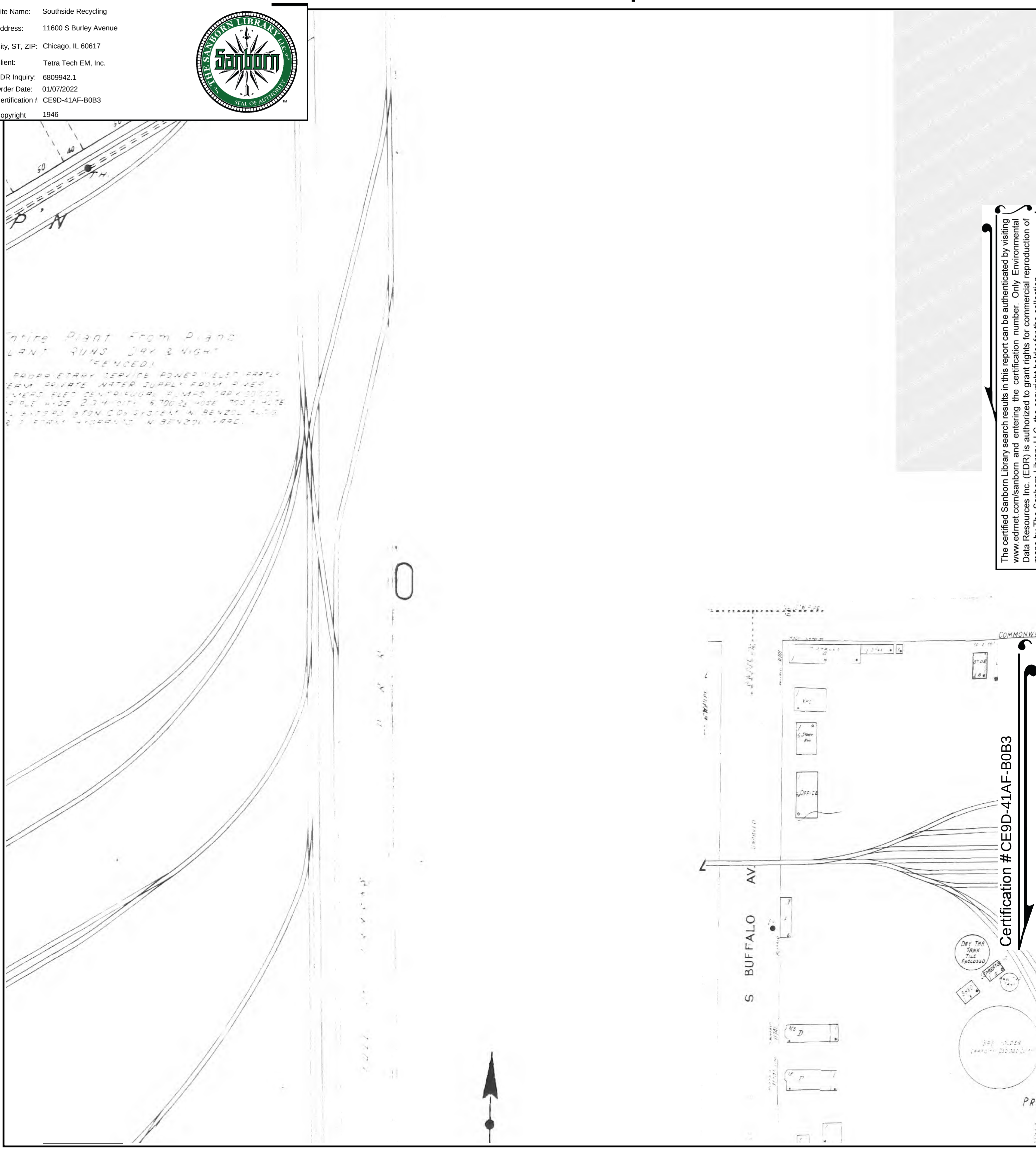
Volume 48, Sheet 76

N

Certified Sanborn® Map

1946

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1946



Certification # CE9D-41AF-B0B3

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Outlined areas indicate map sheets within the collection.

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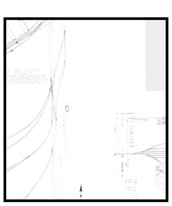

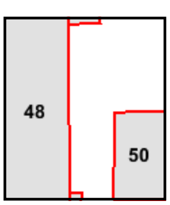

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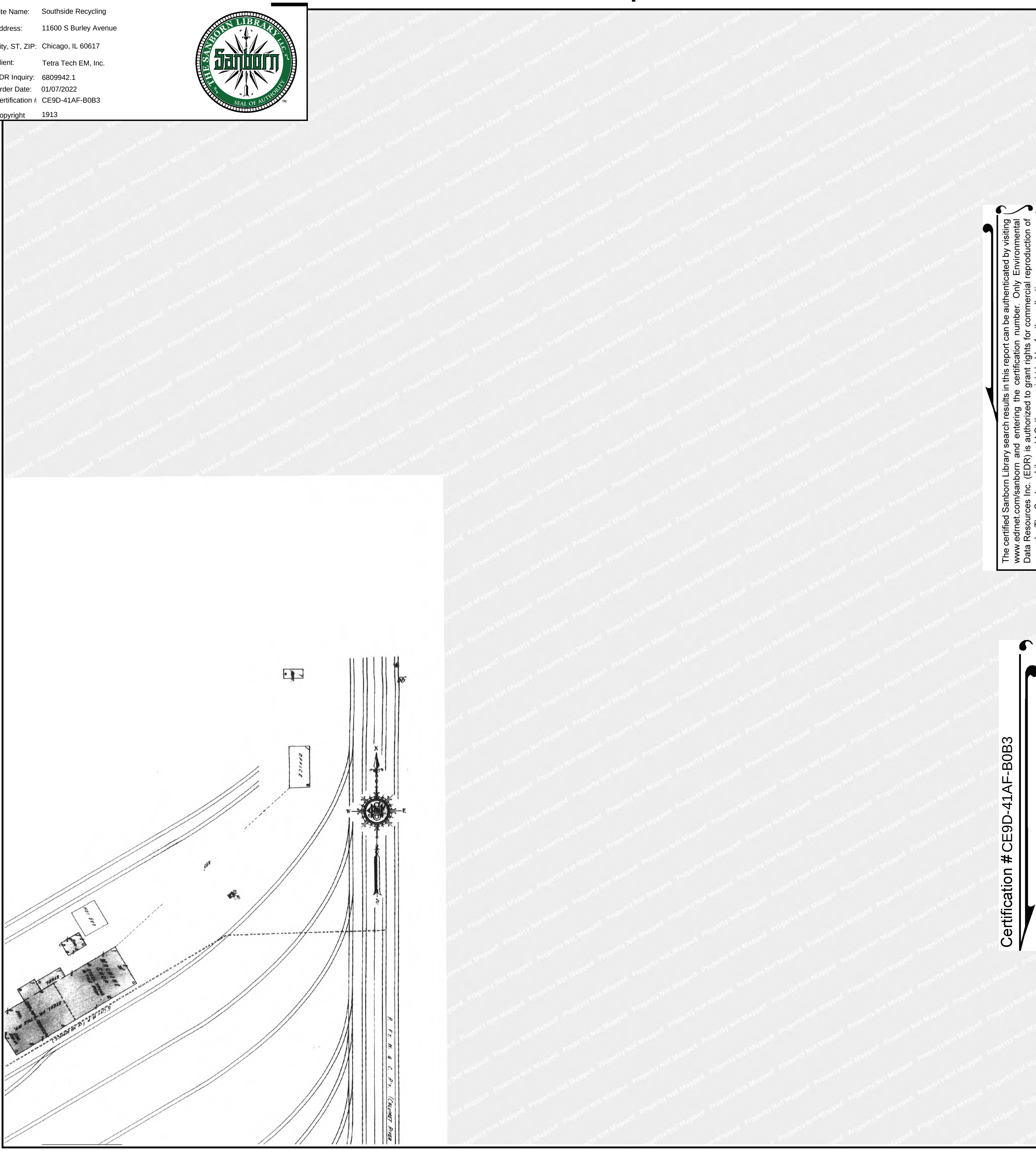
N

Certified Sanborn® Map

1913

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1913



Certification # CE9D-41AF-B0B3

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Outlined areas indicate map sheets within the collection.

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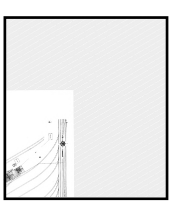

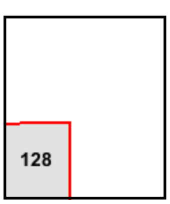

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N

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617

Inquiry Number: 6809942.1
January 07, 2022

Certified Sanborn® Map Report

EDR®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/07/22

Site Name:	Client Name:
Southside Recycling	Tetra Tech EM, Inc.
11600 S Burley Avenue	1 South Wacker Drive, 37th Floor
Chicago, IL 60617	Chicago, IL 60606
EDR Inquiry # 6809942.1	Contact: Stacey Durley

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Tetra Tech EM, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.ednet.com/sanborn.

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Certified Sanborn Results:

Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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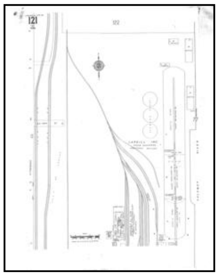
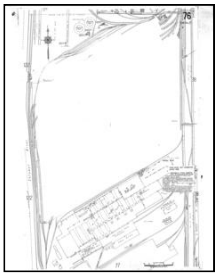
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

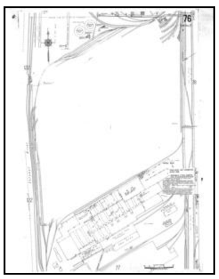
2004 Source Sheets


Volume 48, Sheet 121
2004

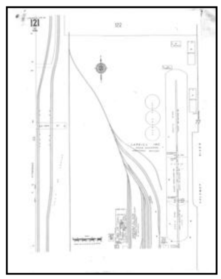

Volume 48, Sheet 76
2004


Volume 48, Sheet 77
2004

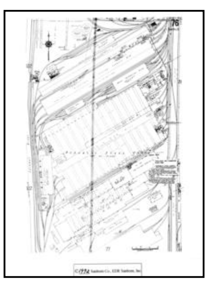
2002 Source Sheets

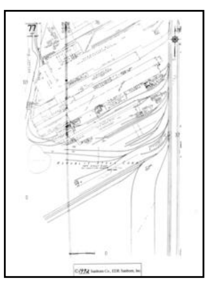

Volume 48, Sheet 76
2002

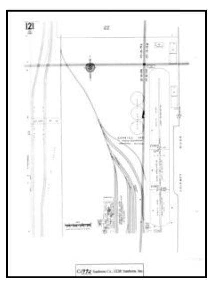

Volume 48, Sheet 77
2002

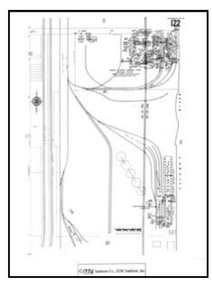

Volume 48, Sheet 121
2002

1992 Source Sheets


Volume 48, Sheet 76
1992

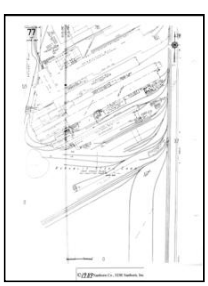

Volume 48, Sheet 77
1992

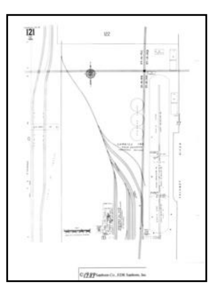

Volume 48, Sheet 121
1992

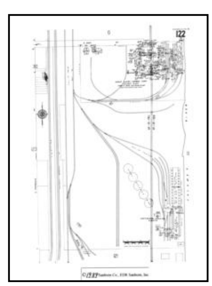

Volume 48, Sheet 122
1992

1989 Source Sheets


Volume 48, Sheet 76
1989


Volume 48, Sheet 77
1989


Volume 48, Sheet 121
1989


Volume 48, Sheet 122
1989

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1987 Source Sheets

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1987

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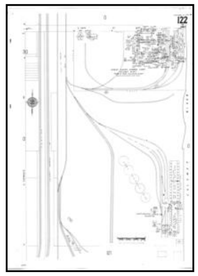
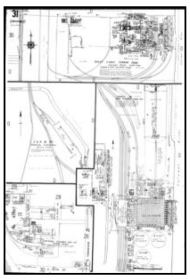
1987



Volume 48, Sheet 122
1987

1976 Source Sheets

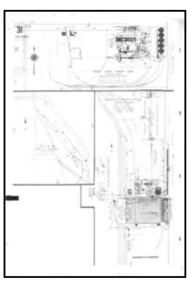


Volume 48, Sheet 31
1976

Volume 48, Sheet 76
1976

Volume 48, Sheet 77
1976

1950 Source Sheets

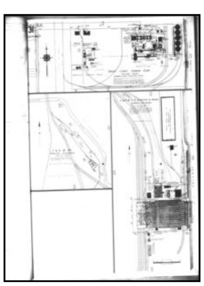


Volume 48, Sheet 31
1950

Volume 48, Sheet 76
1950

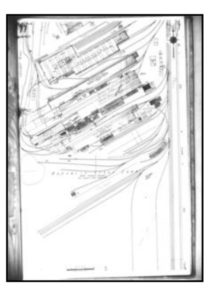
Volume 48, Sheet 77
1950

1947 Source Sheets



Volume 48, Sheet 31
1947

Volume 48, Sheet 76
1947



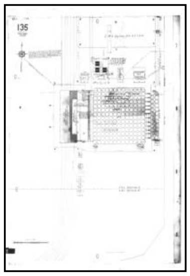
Volume 48, Sheet 77
1947

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1946 Source Sheets

Volume F, Sheet 128
1946

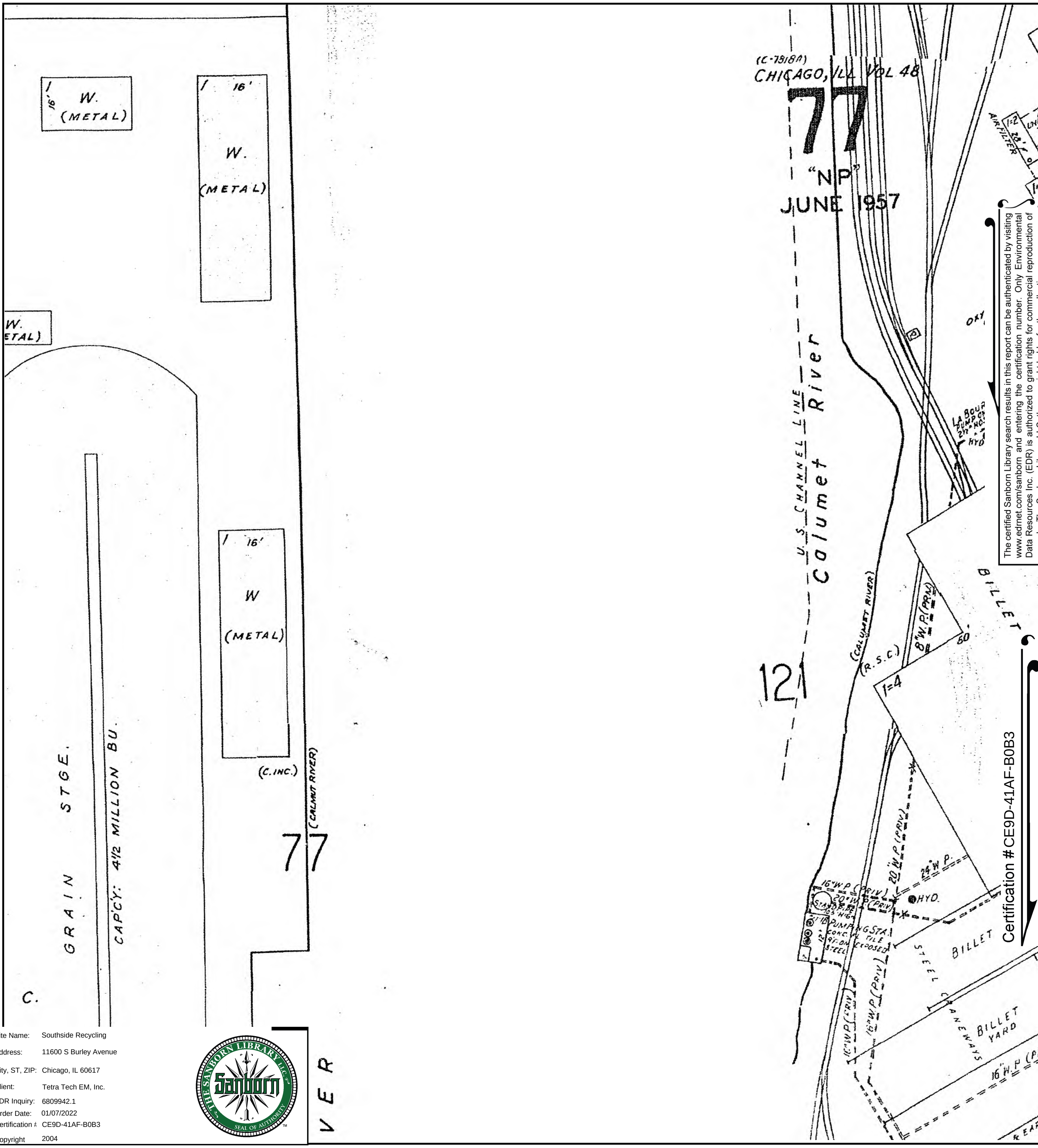


Volume F, Sheet 135
1946

Volume F, Sheet 48
1946

Certified Sanborn® Map

2004



Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 2004

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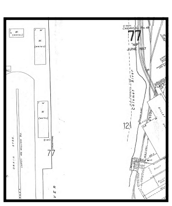

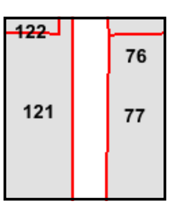

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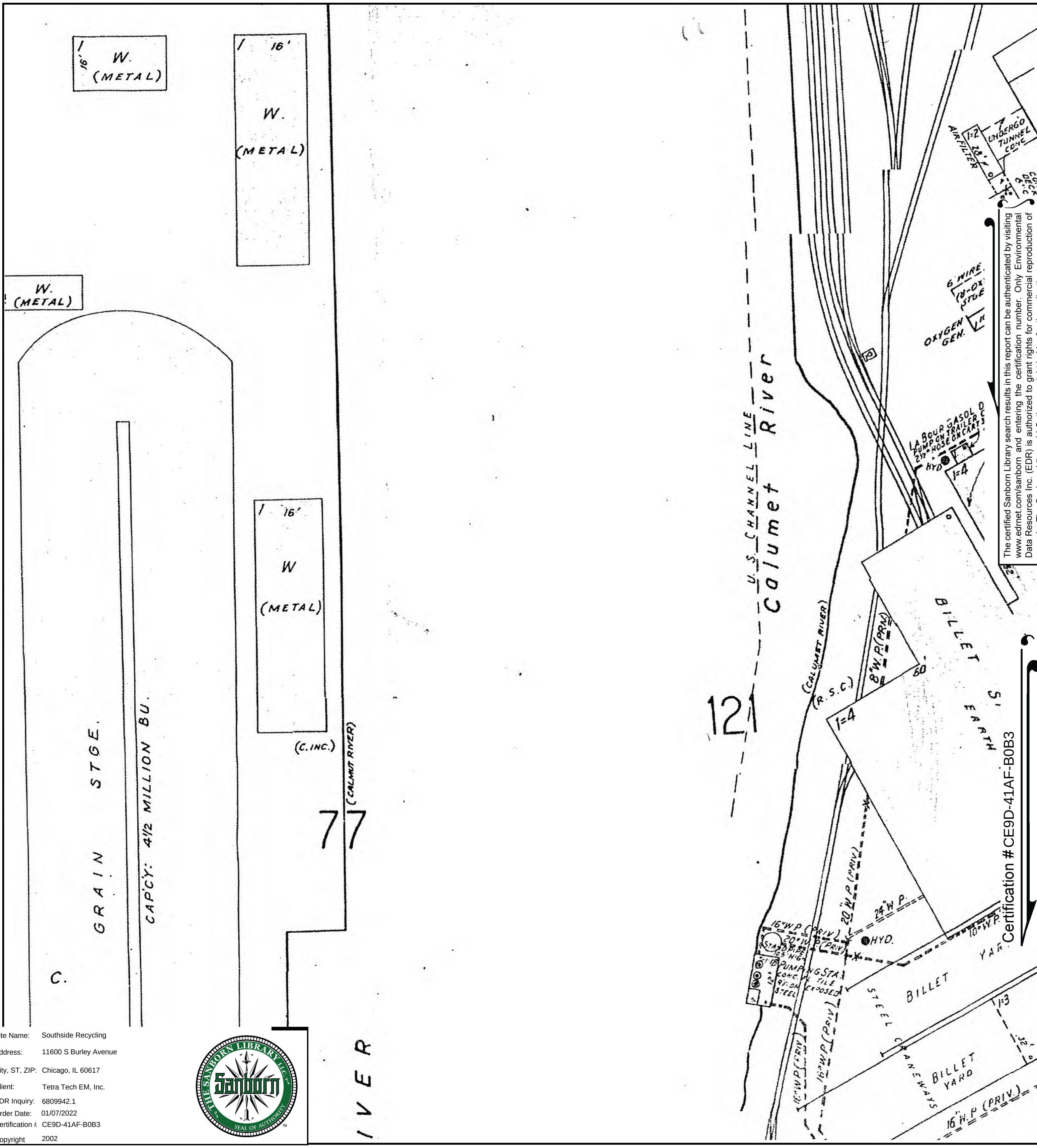
Certified Sanborn® Map

2002



Certification # CE9D-41AF-B0B3

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
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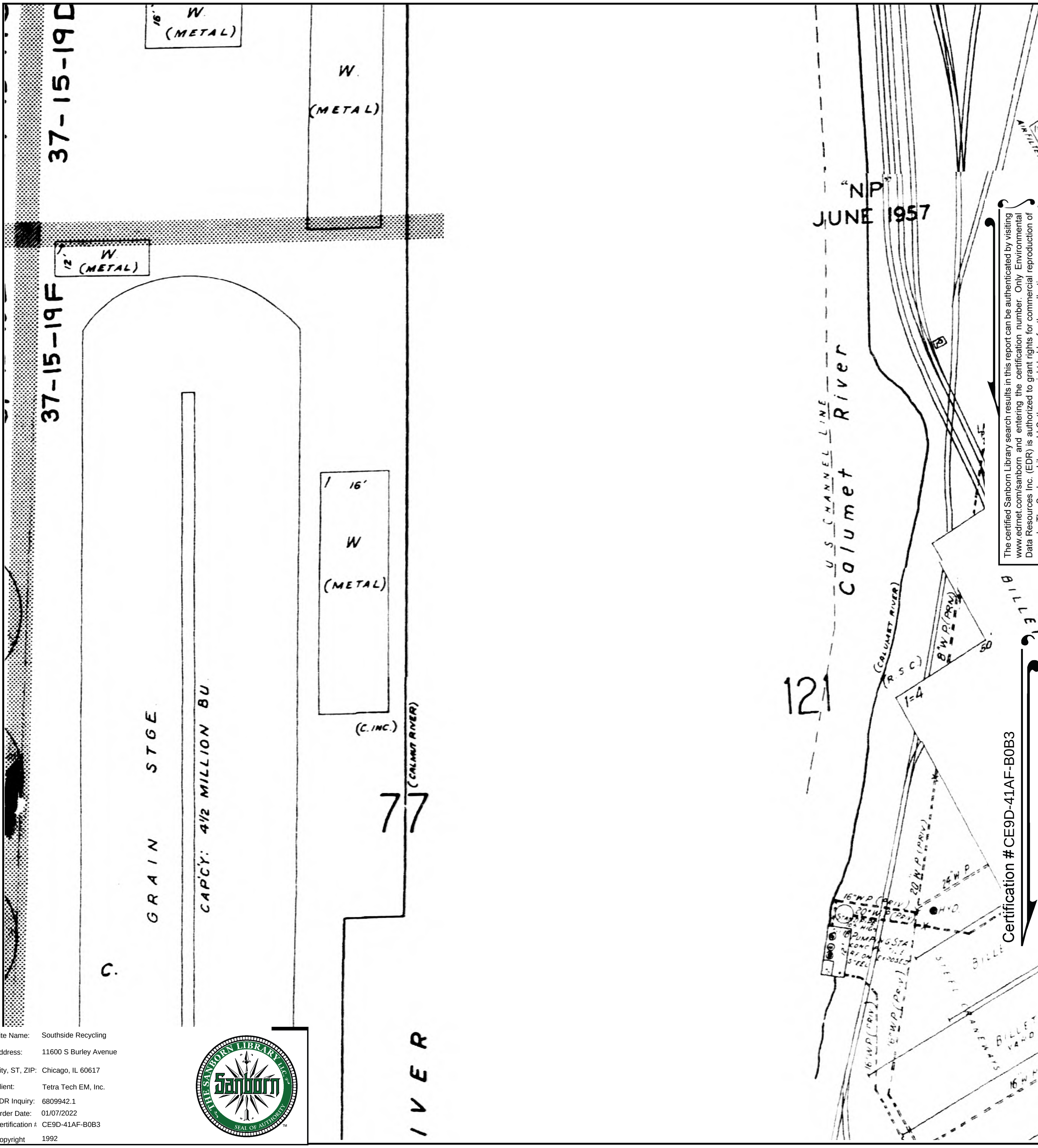
N



Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
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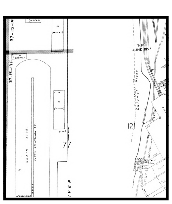

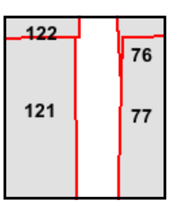

Volume 48, Sheet 122
Volume 48, Sheet 121
Volume 48, Sheet 77
Volume 48, Sheet 76

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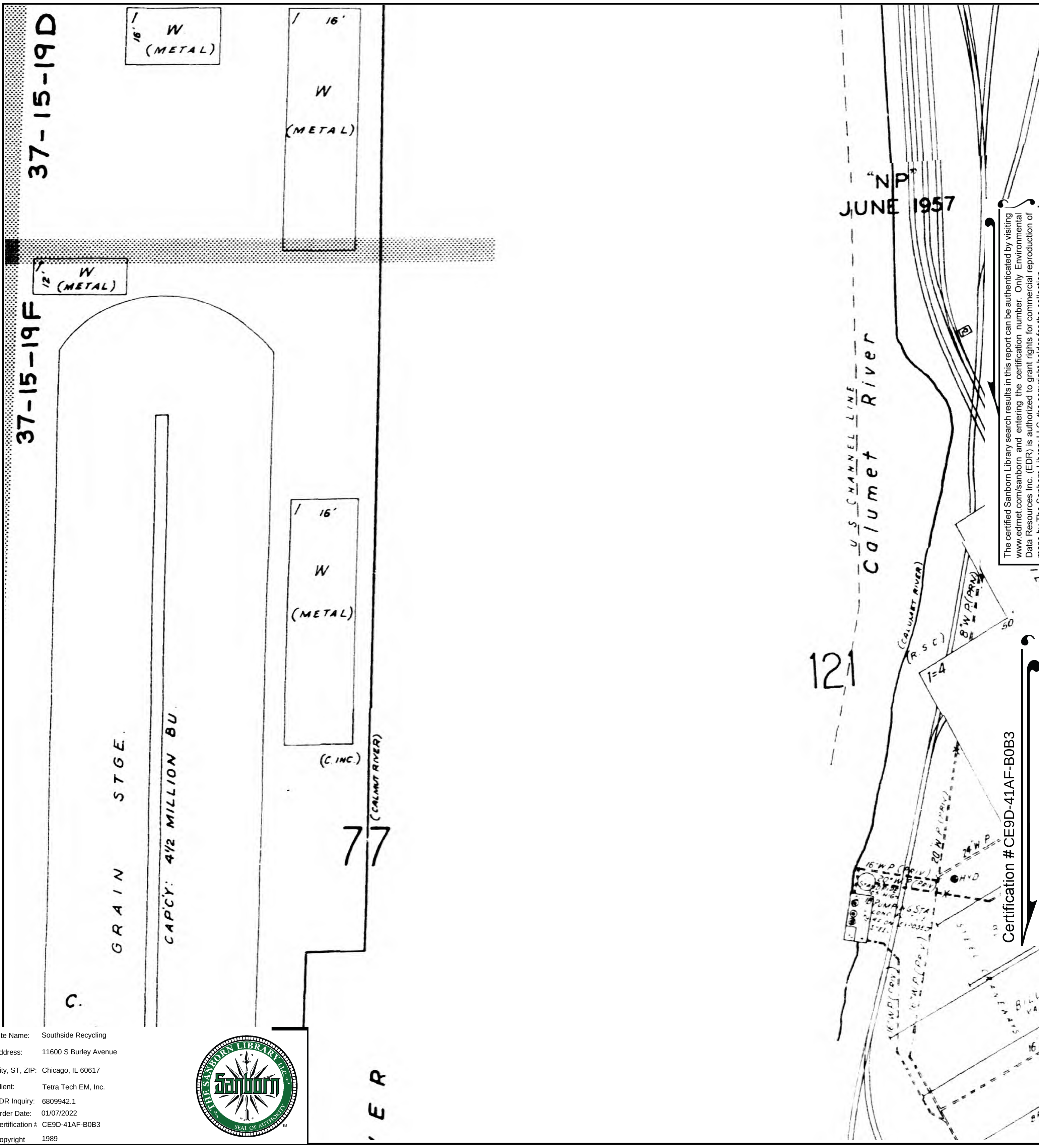

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Volume 48, Sheet 76

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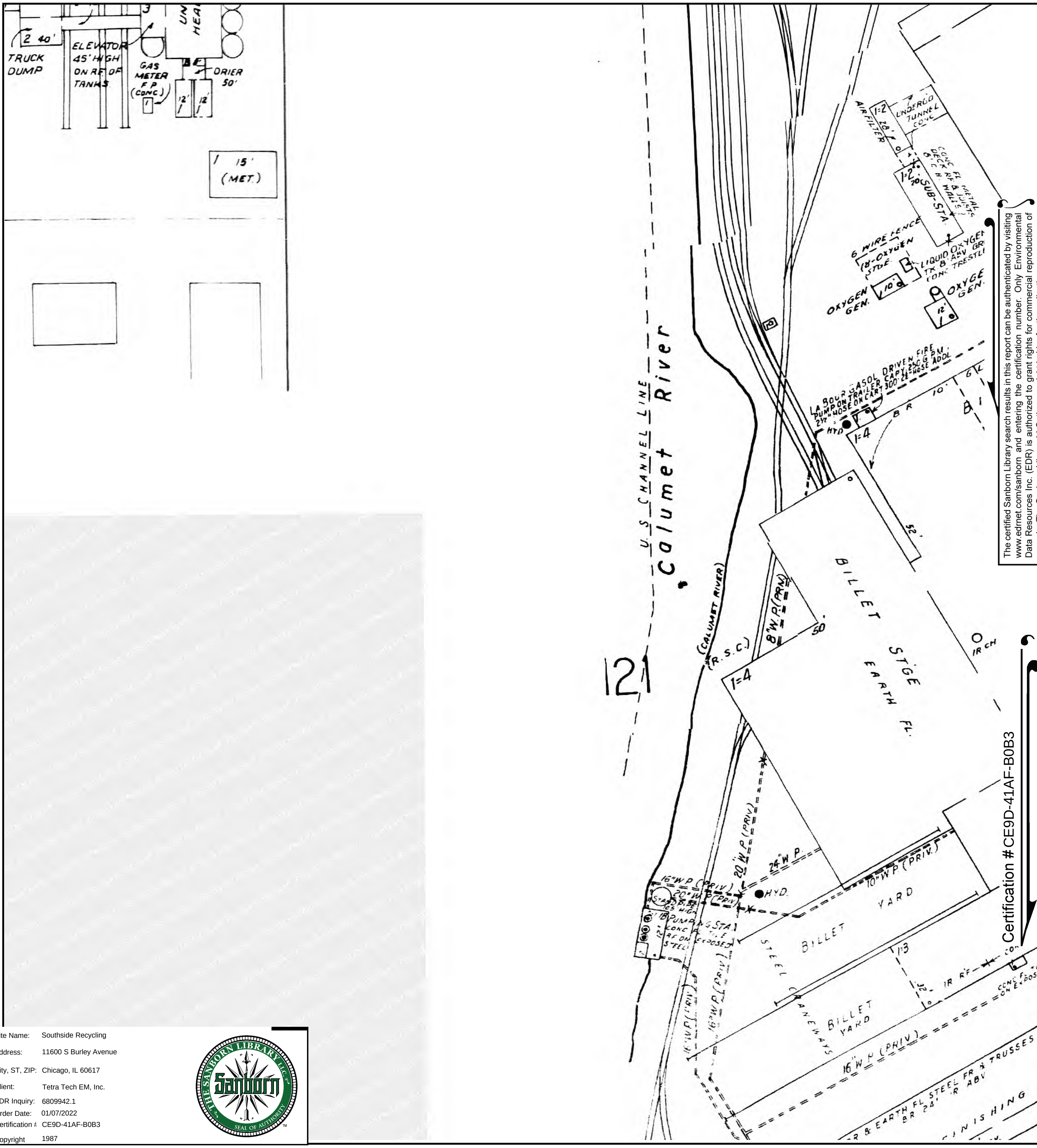

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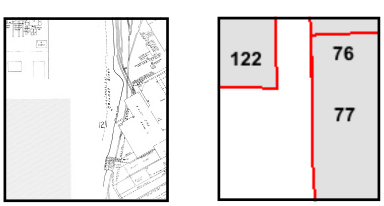

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Volume 48, Sheet 76

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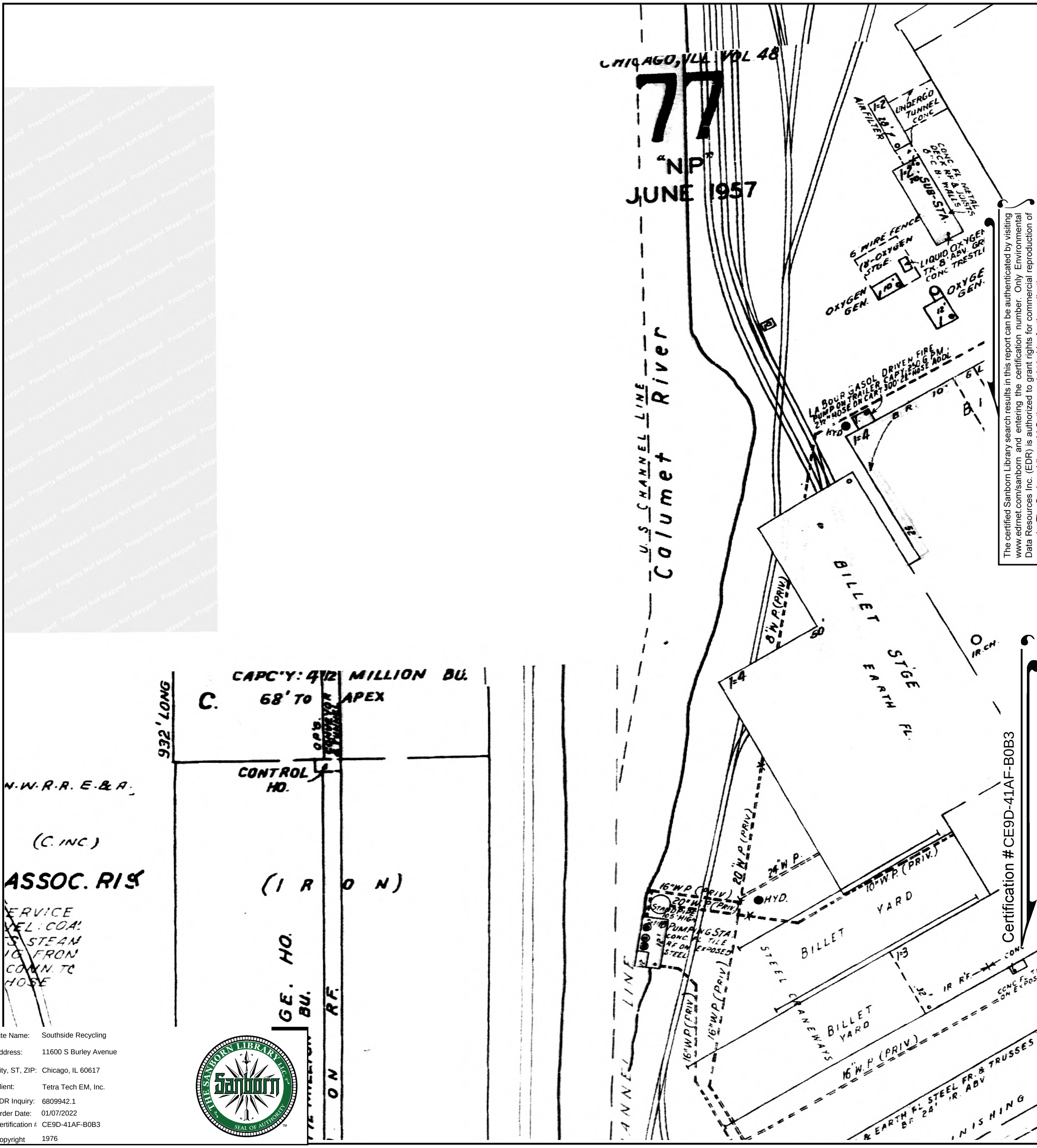

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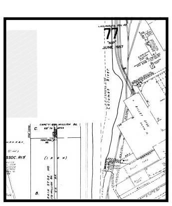

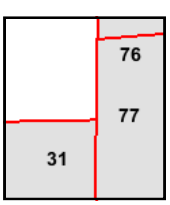

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Volume 48, Sheet 76
Volume 48, Sheet 31

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EDR

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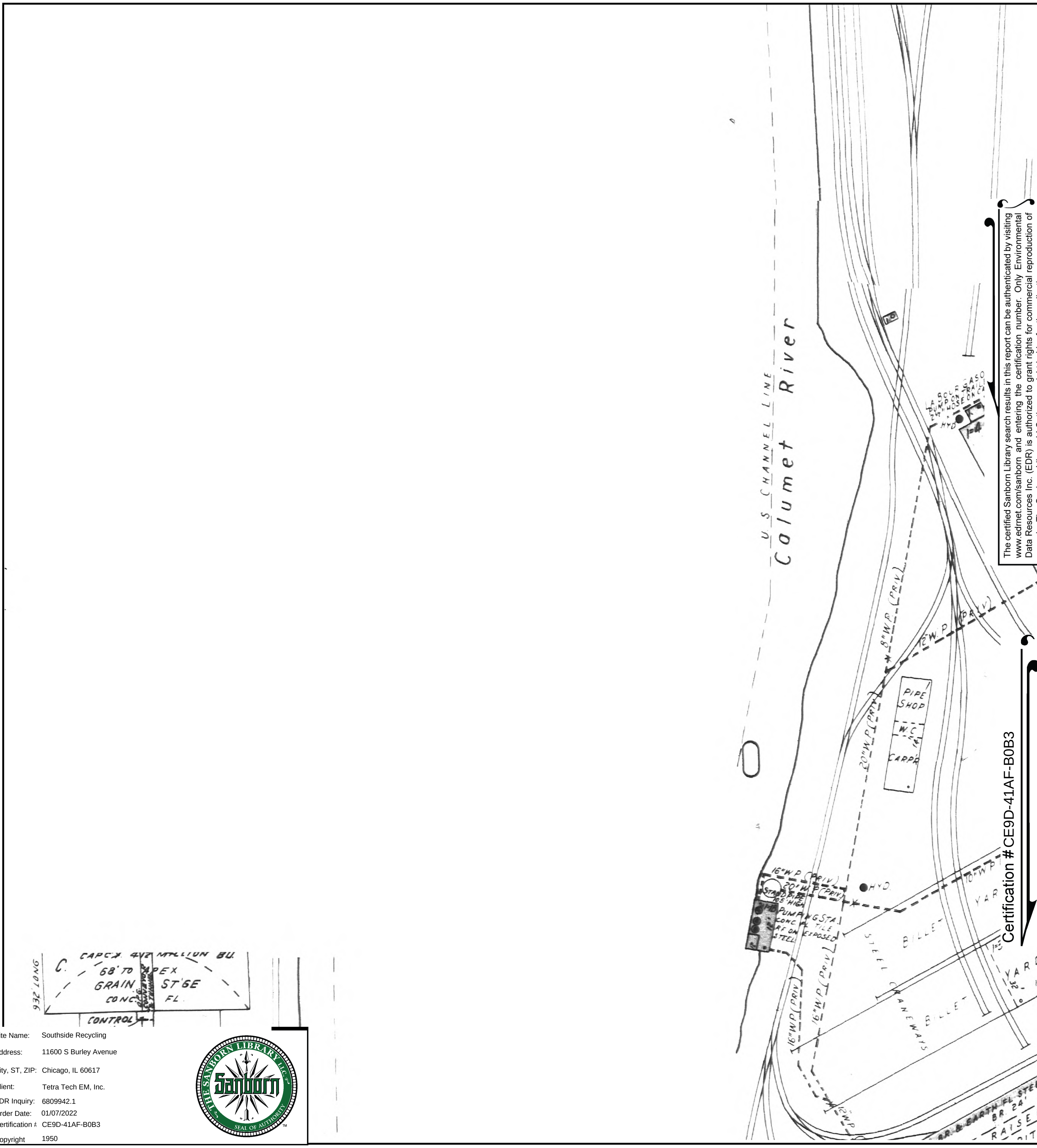
1950



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Client:	Tetra Tech EM, Inc.
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Copyright	1950

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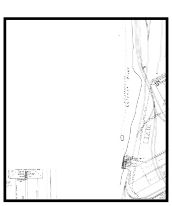

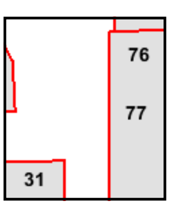

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Volume 48, Sheet 31

0 Feet 150 300 600

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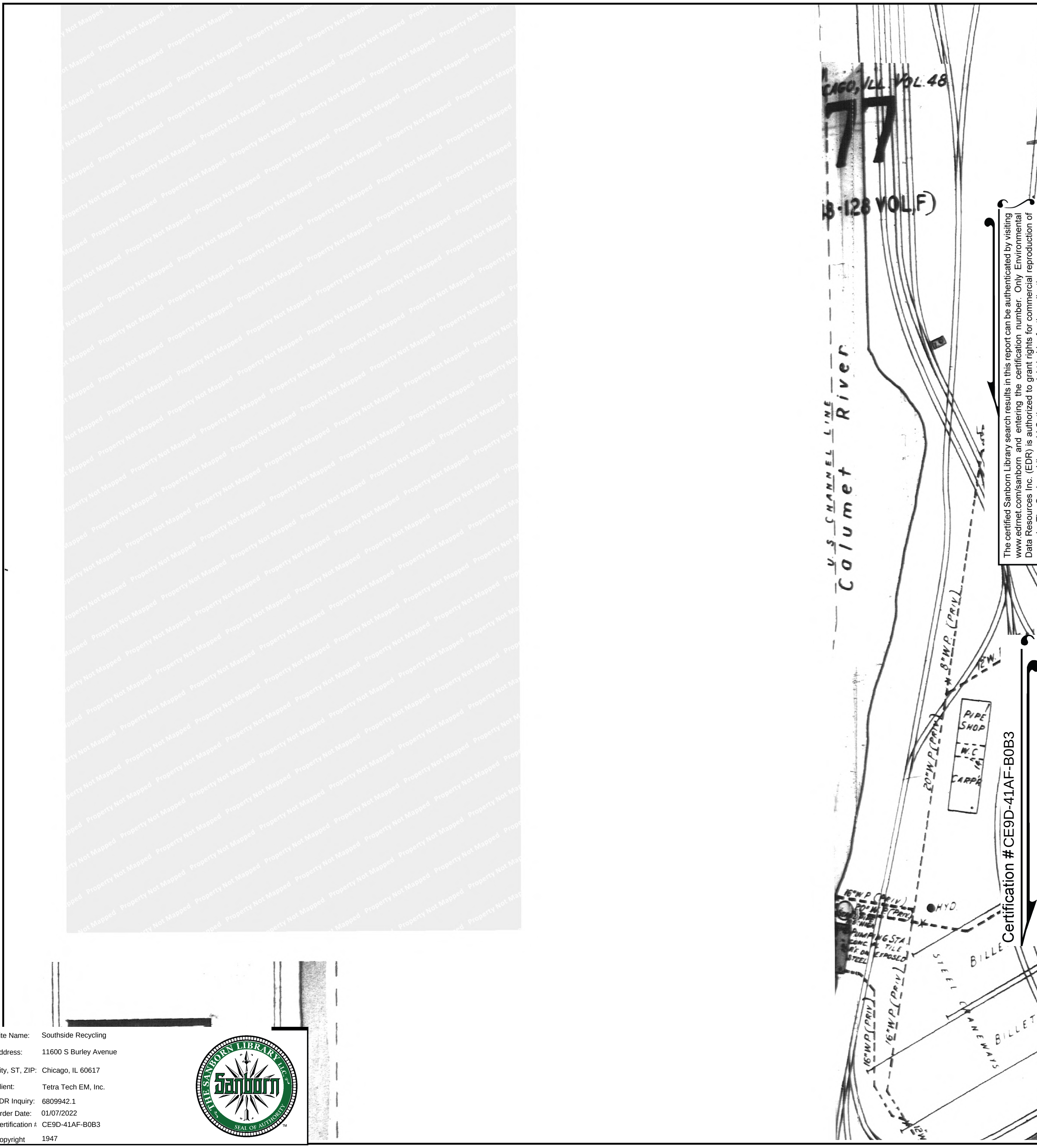
1947



Certification # CE9D-41AF-B0B3

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Address: 11600 S Burley Avenue
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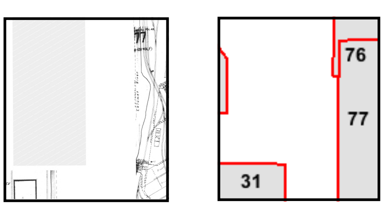

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Volume 48, Sheet 31

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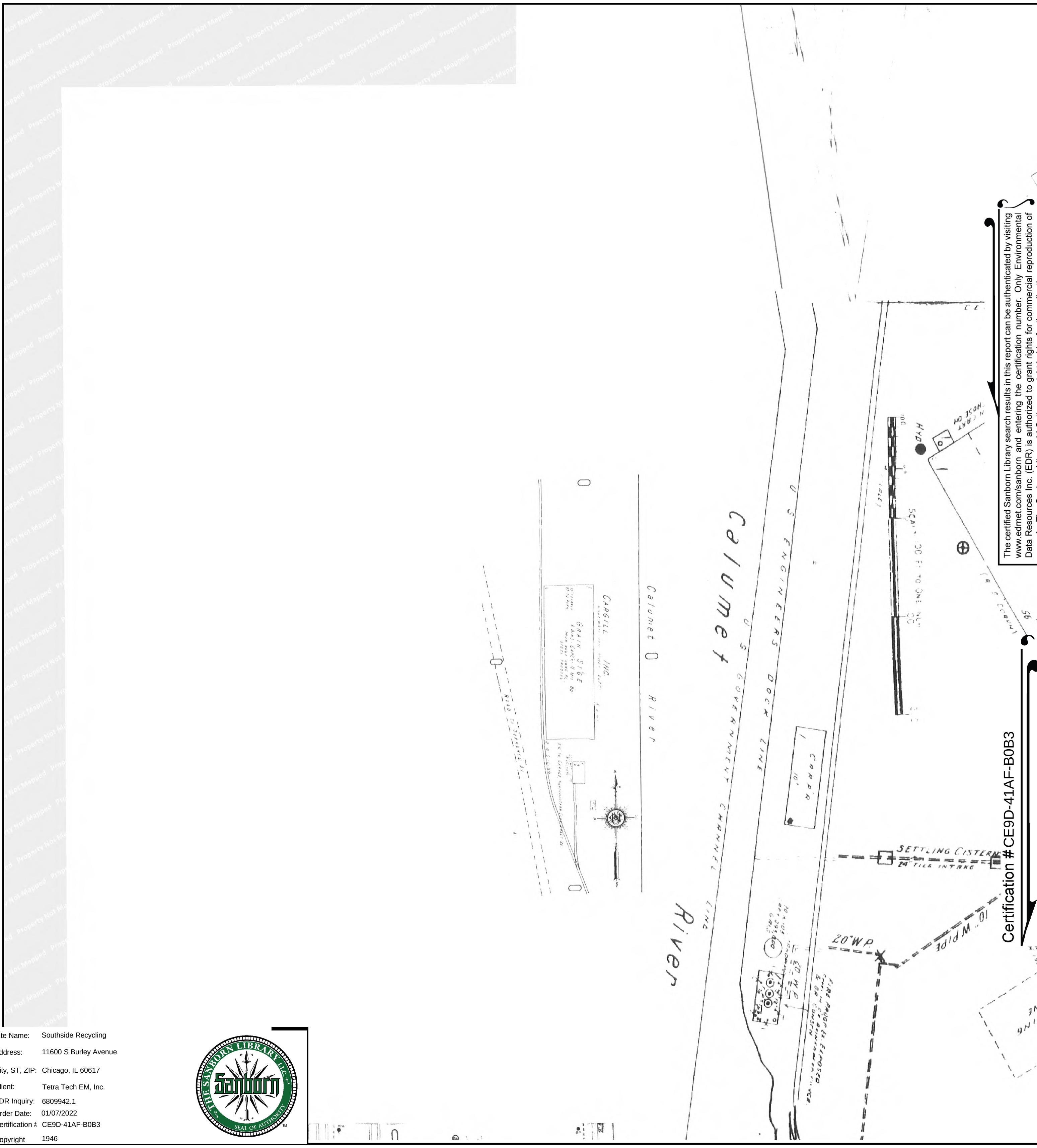
1946



Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
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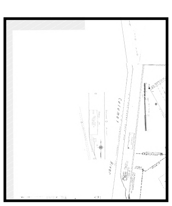

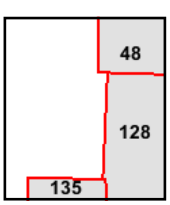

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Volume F, Sheet 135
Volume F, Sheet 128

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Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617

Inquiry Number: 6809942.1
January 07, 2022

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Shelton, CT 06484
Toll Free: 800.352.0050
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01/07/22

Site Name:

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617
EDR Inquiry # 6809942.1

Client Name:

Tetra Tech EM, Inc.
1 South Wacker Drive, 37th Floor
Chicago, IL 60606
Contact: Stacey Durley

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Certification # CE9D-41AF-B0B3

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Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946
1913

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

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- ✔ University Publications of America
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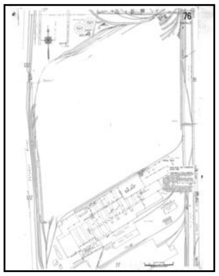
2004 Source Sheets



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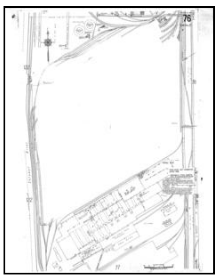
2004

Volume 48, Sheet 77
2004

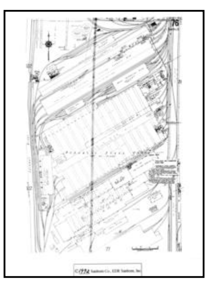
2002 Source Sheets

Volume 48, Sheet 77
2002

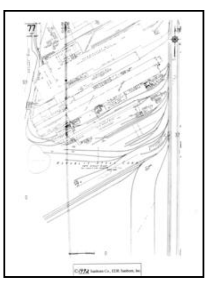


Volume 48, Sheet 76
2002

1992 Source Sheets



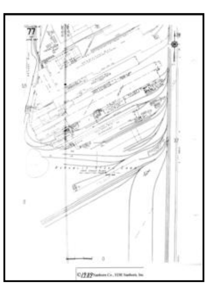
Volume 48, Sheet 76
1992



Volume 48, Sheet 77
1992

1989 Source Sheets

Volume 48, Sheet 76
1989



Volume 48, Sheet 77
1989

Sanborn Sheet Key

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1987 Source Sheets

Volume 48, Sheet 76
1987

Volume 48, Sheet 77
1987

1976 Source Sheets

Volume 48, Sheet 76
1976

Volume 48, Sheet 77
1976

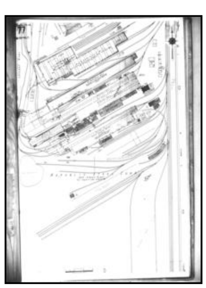
1950 Source Sheets

Volume 48, Sheet 76
1950

Volume 48, Sheet 77
1950

1947 Source Sheets

Volume 48, Sheet 76
1947



Volume 48, Sheet 77
1947

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1946 Source Sheets

Volume F, Sheet 128
1946

Volume F, Sheet 48
1946

1913 Source Sheets

Volume F, Sheet 128
1913

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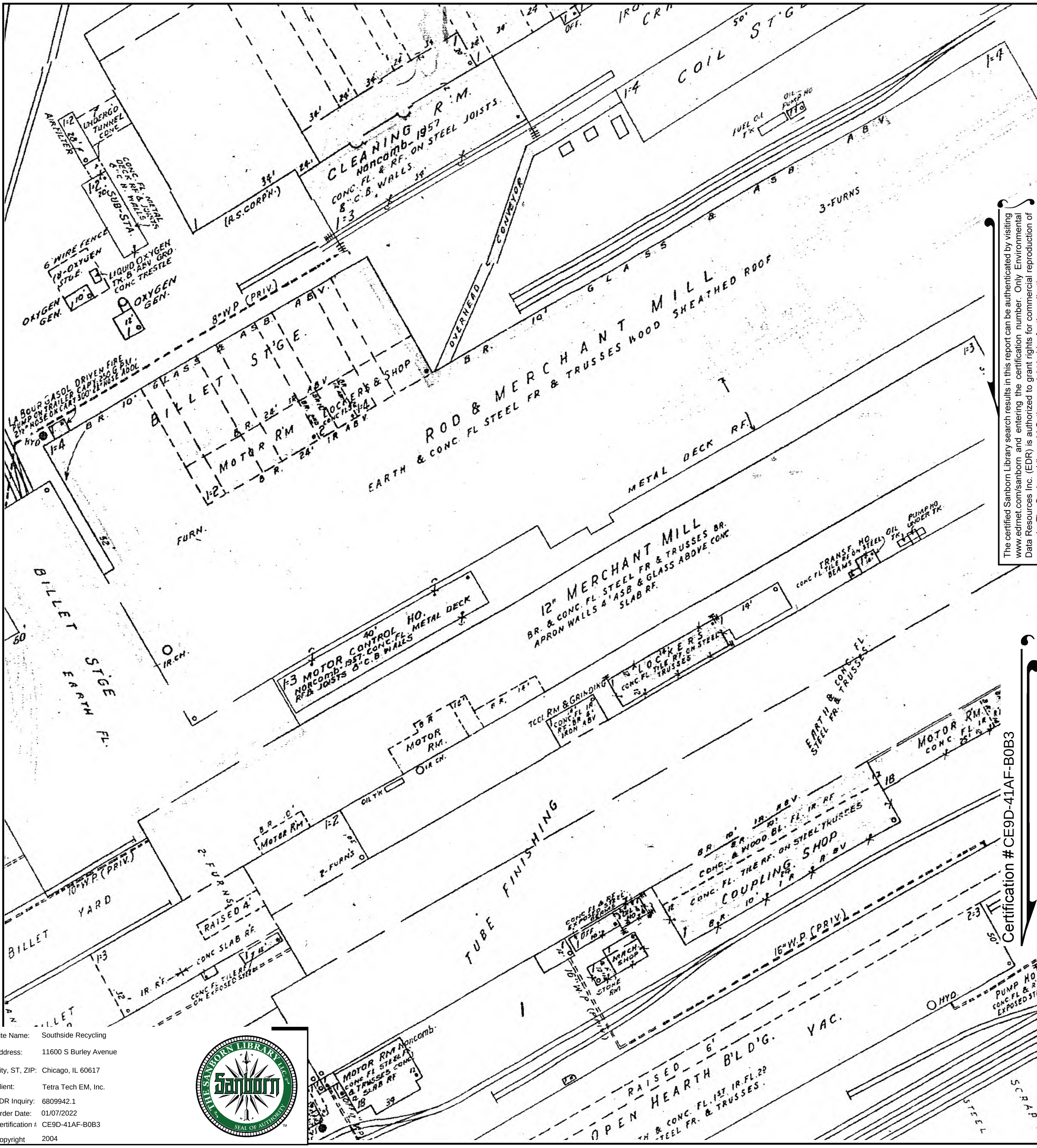
2004



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Site Name:	Southside Recycling
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City, ST, ZIP:	Chicago, IL 60617
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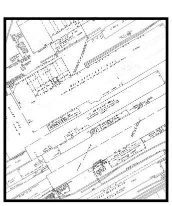

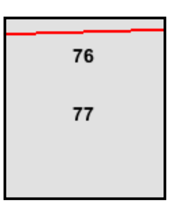

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N

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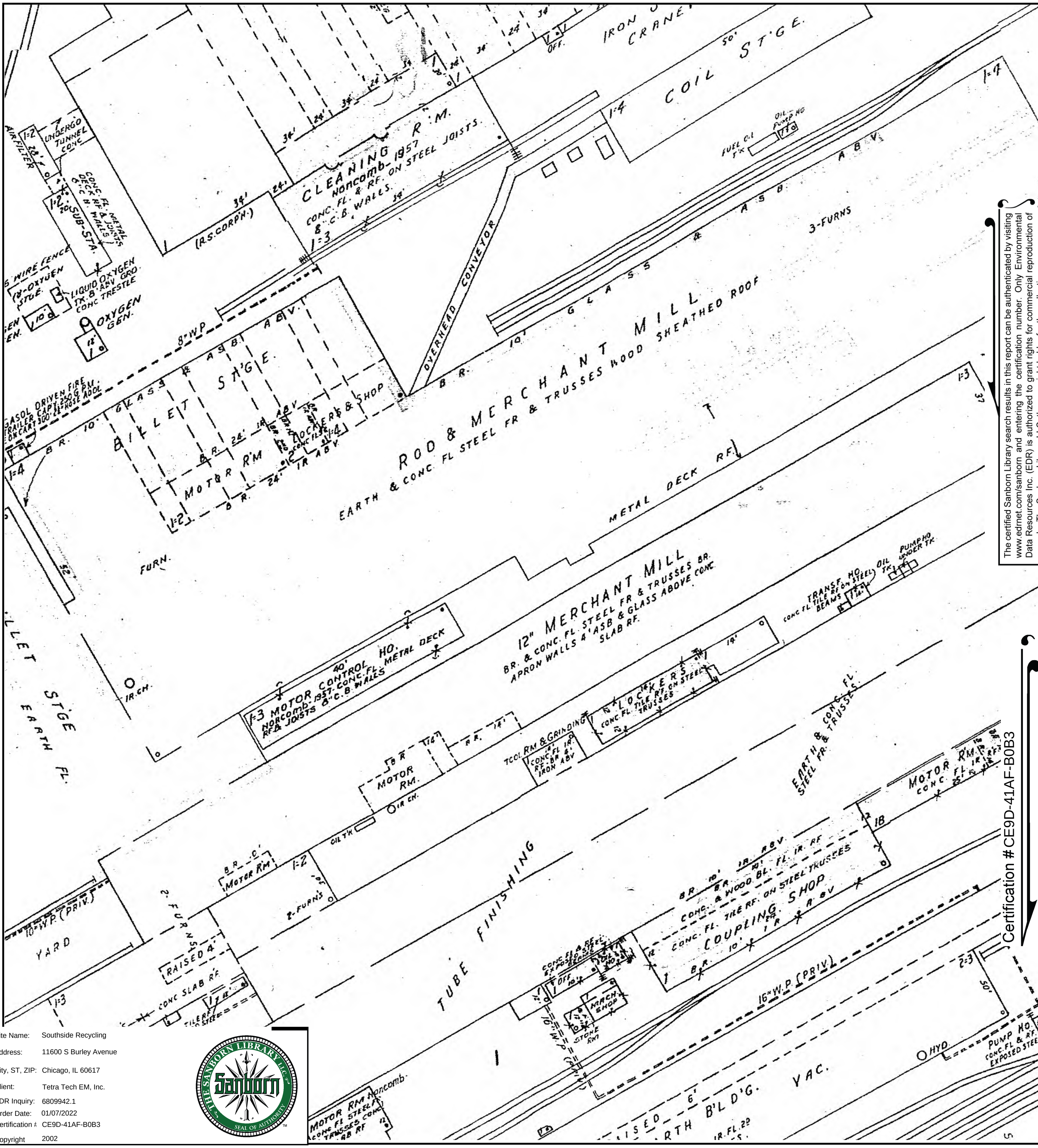
2002



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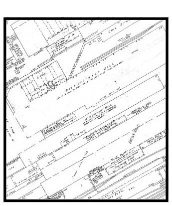

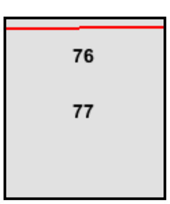

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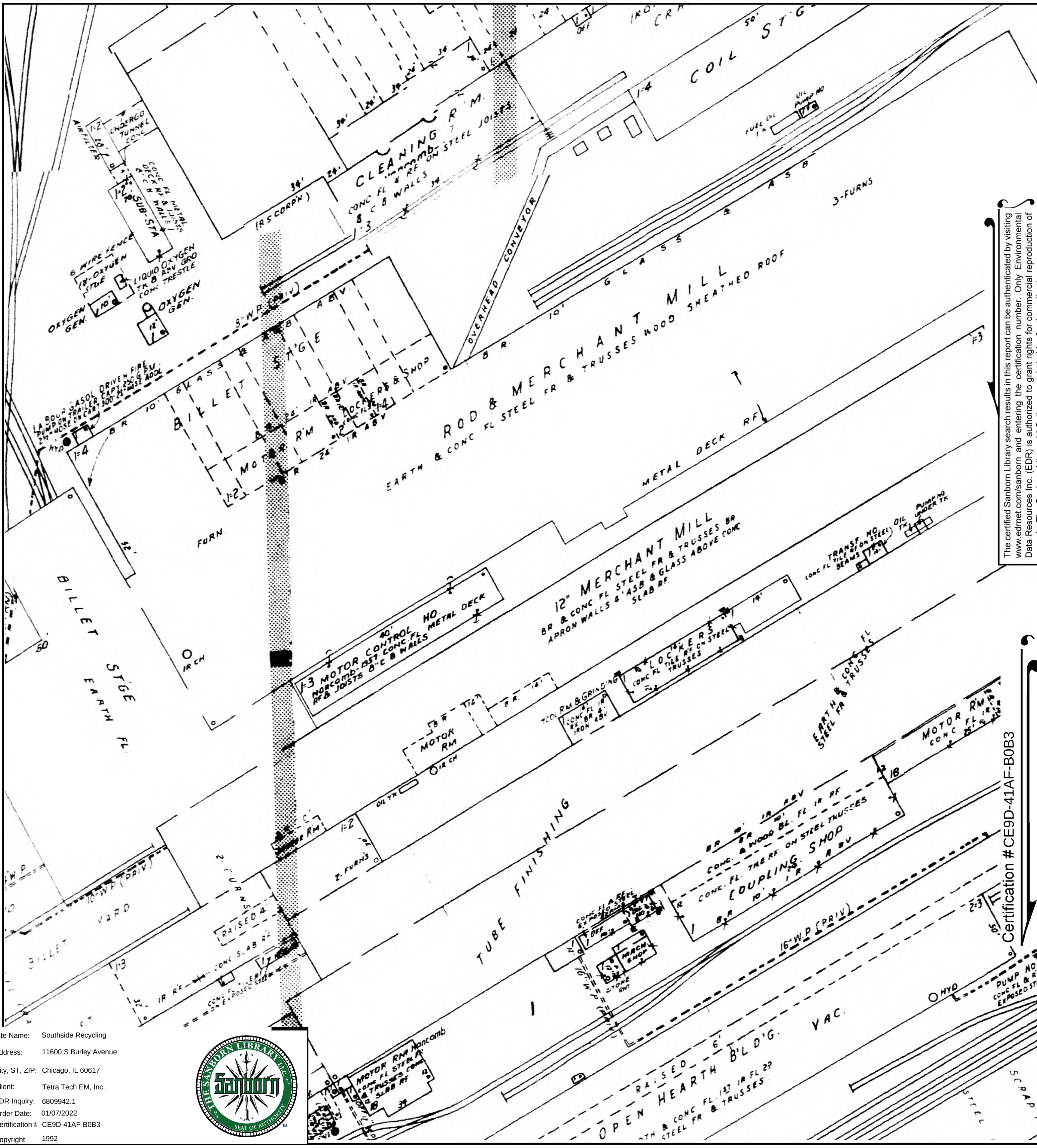
1992



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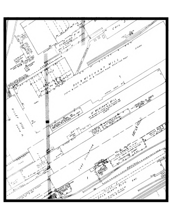

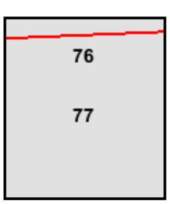

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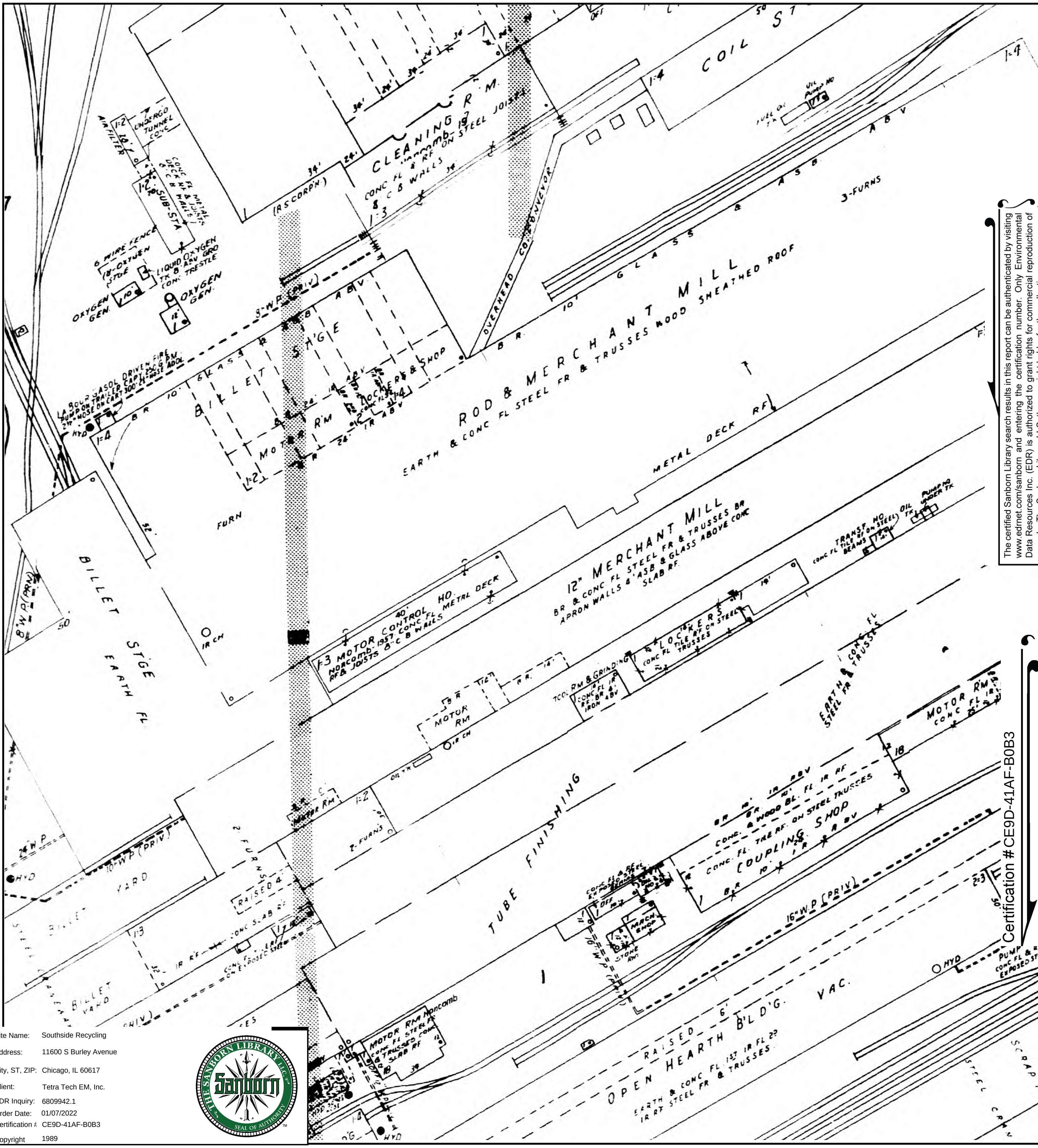

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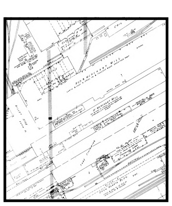

76	
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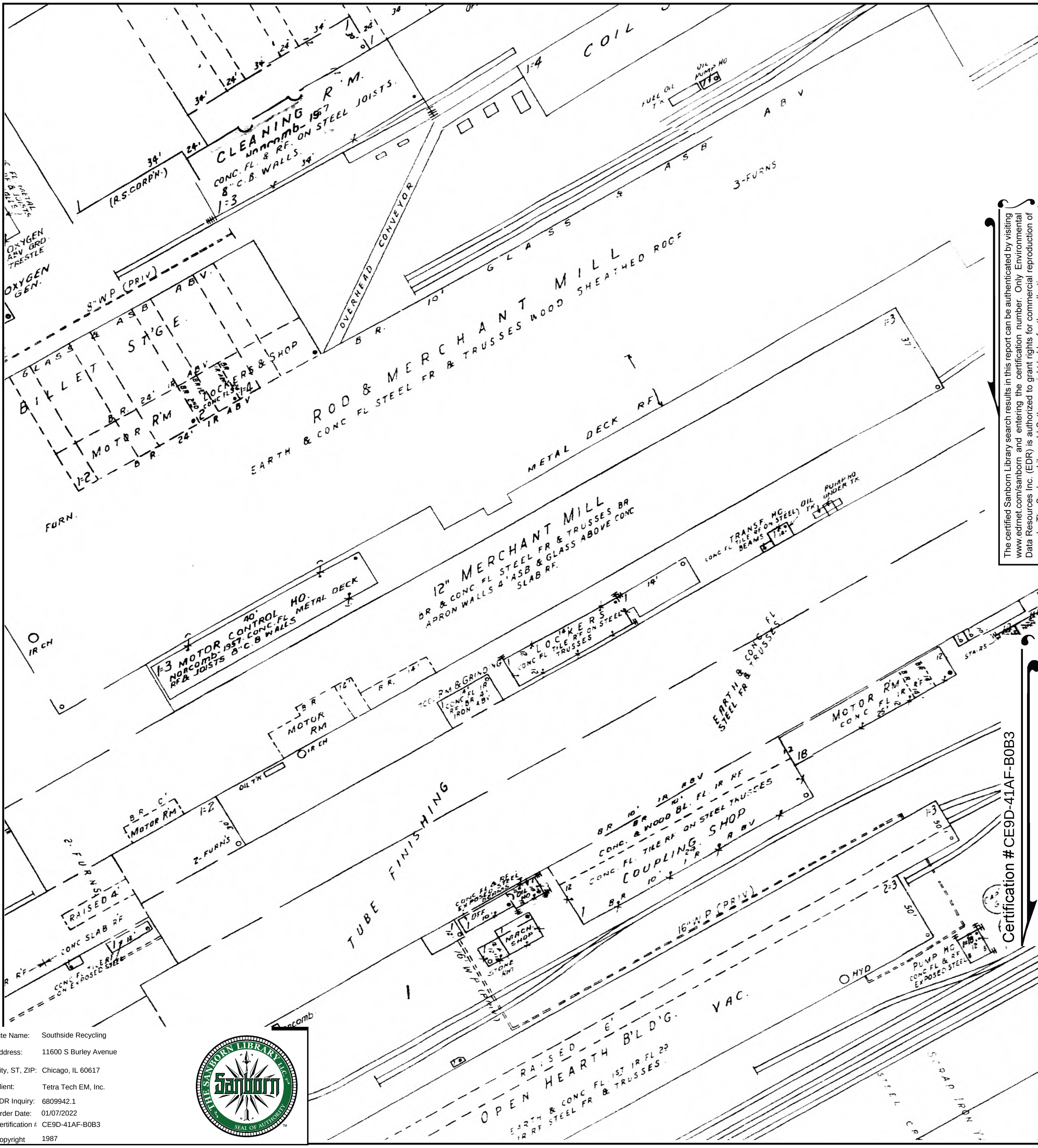
1987



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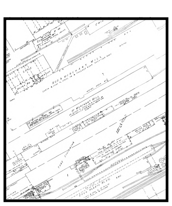

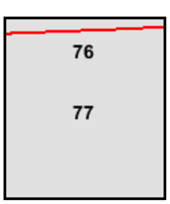

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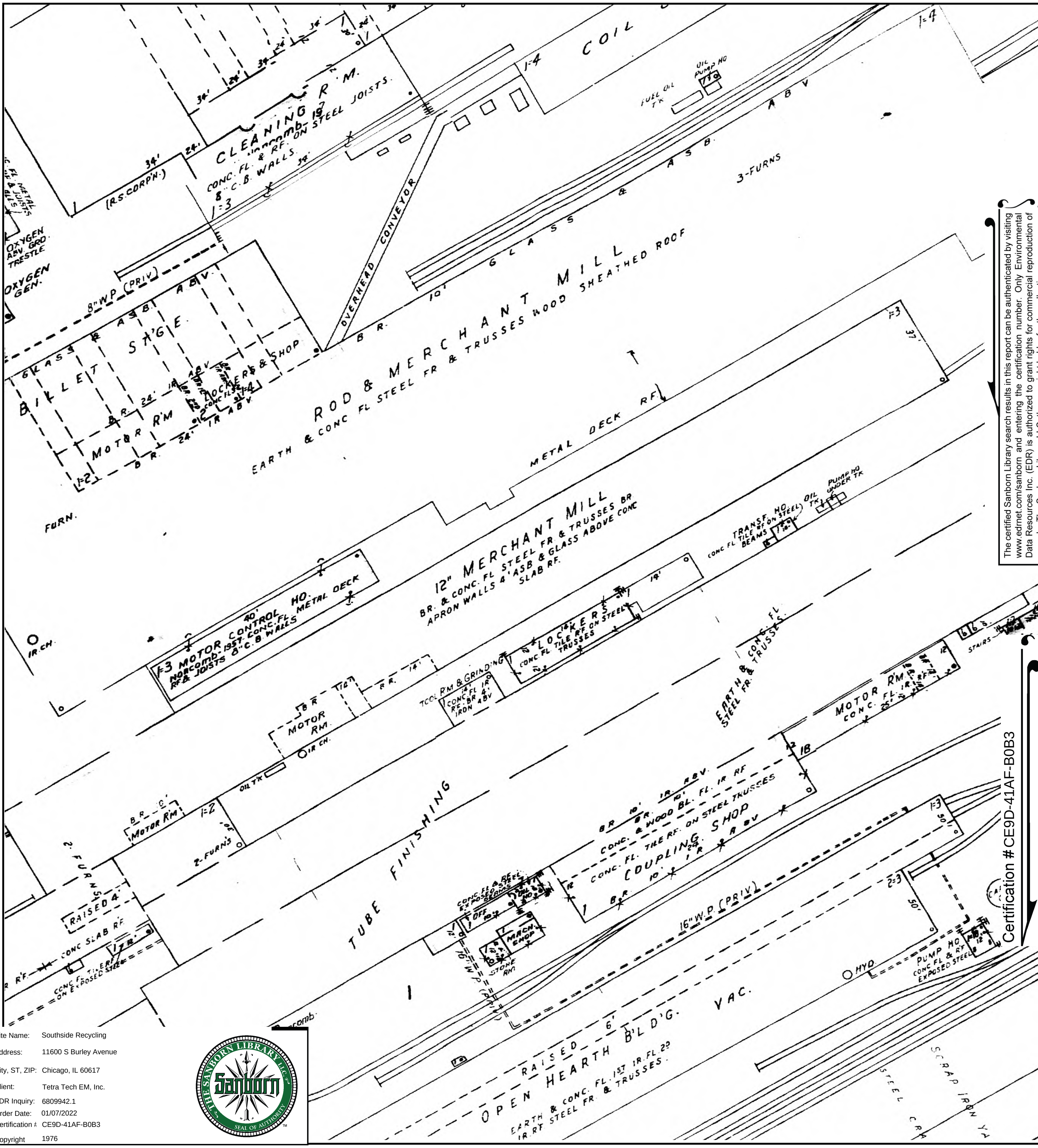

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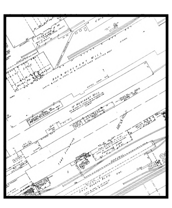

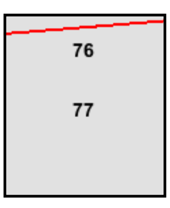

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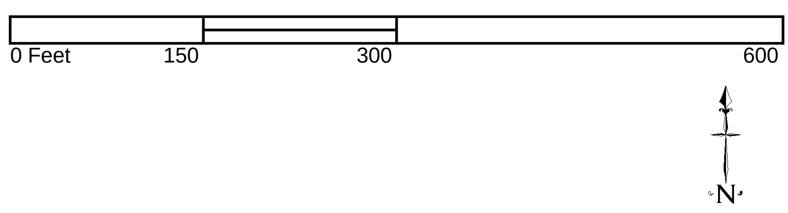

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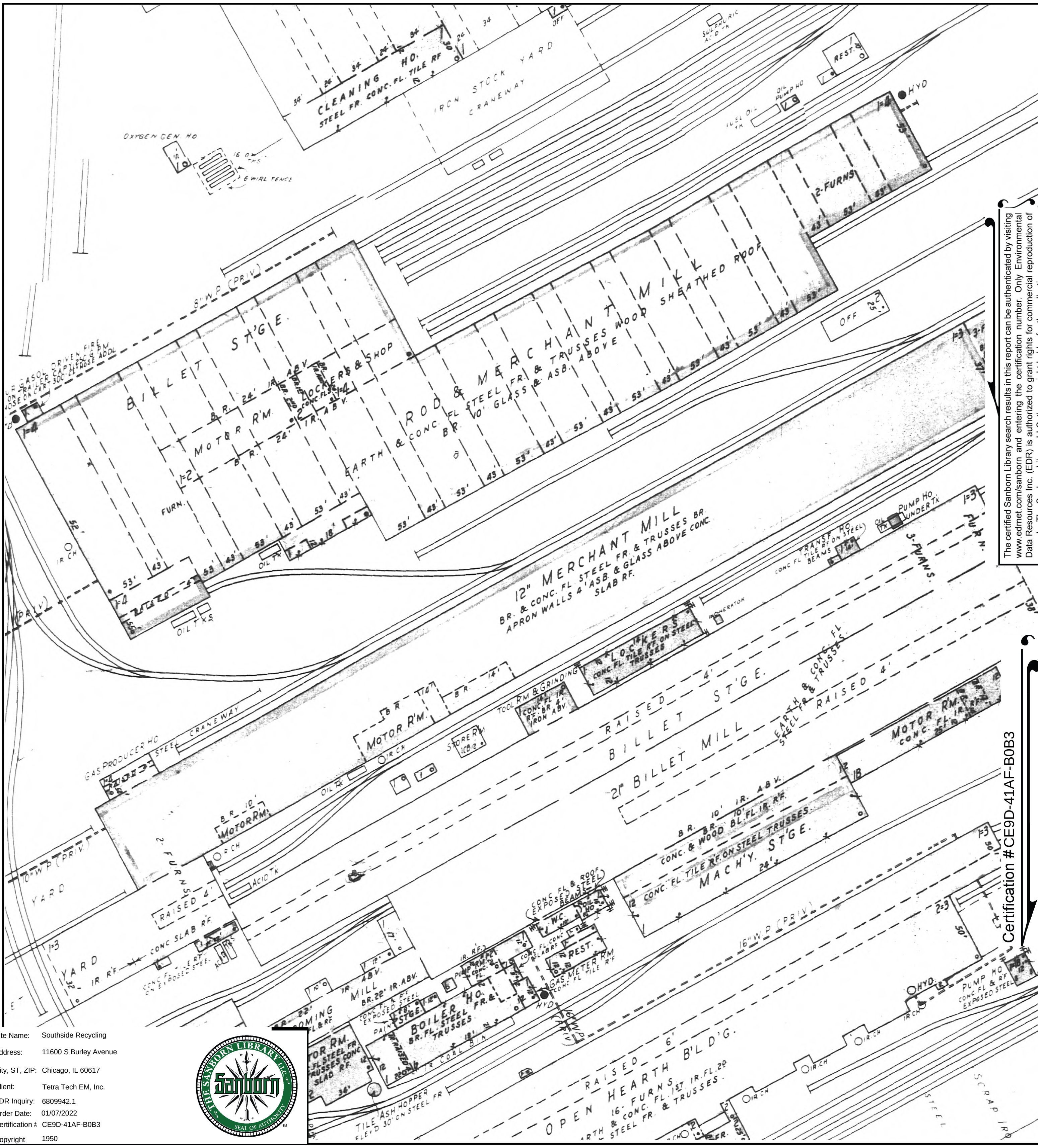
1950



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City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
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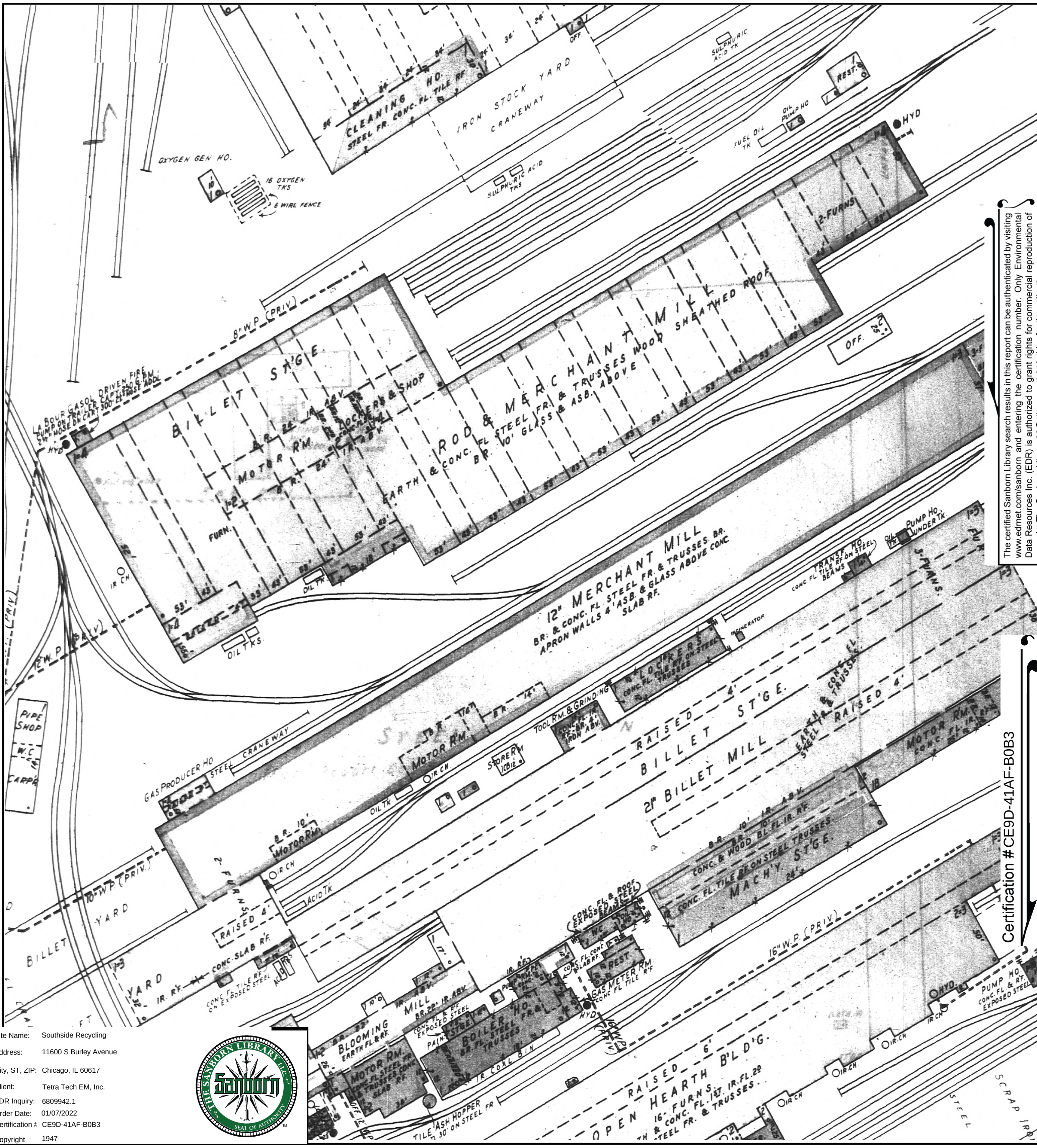
1947



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77

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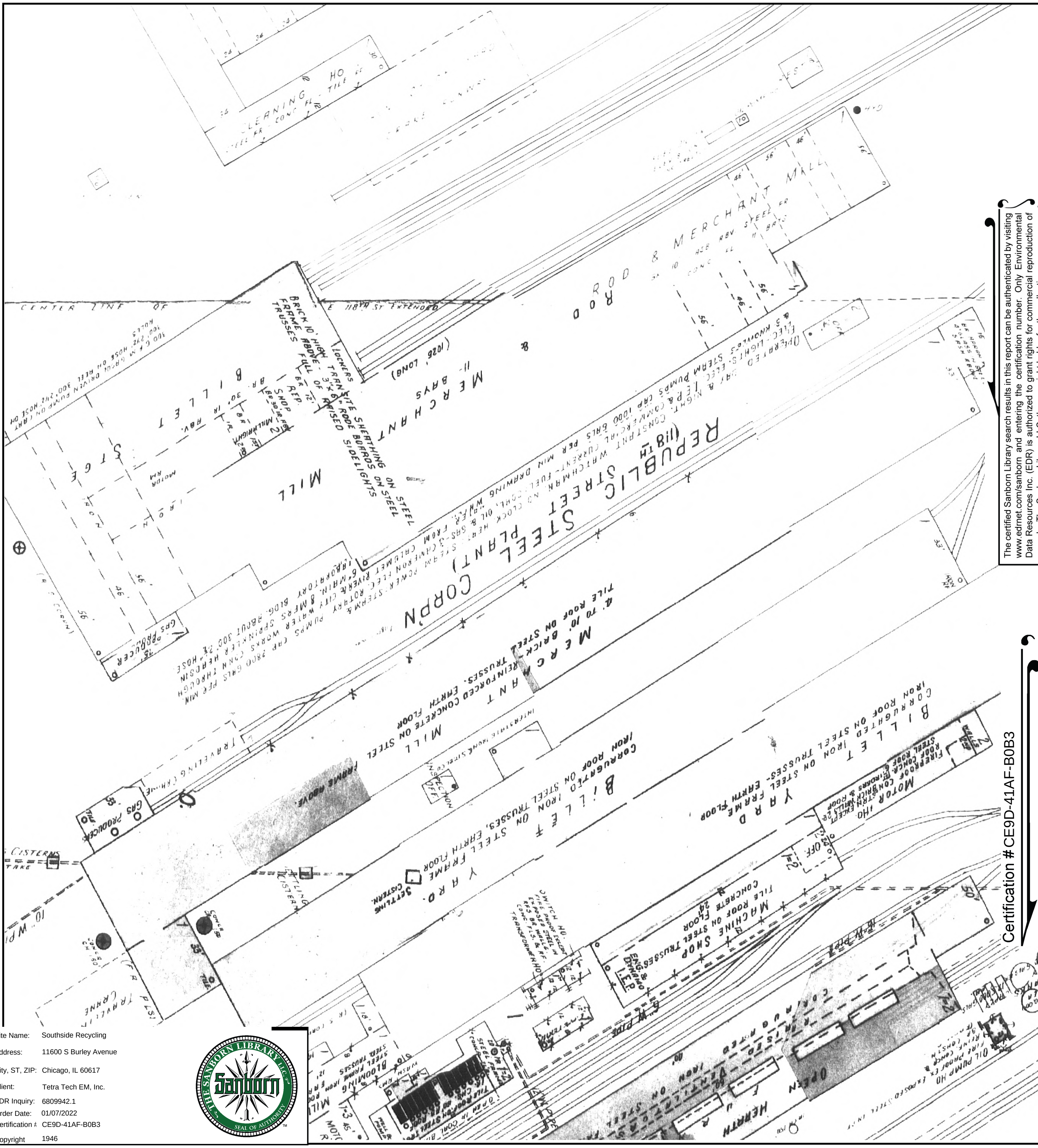

Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1946

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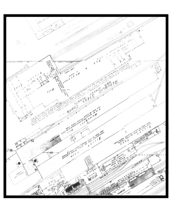

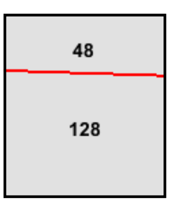

Volume F, Sheet 48
Volume F, Sheet 128

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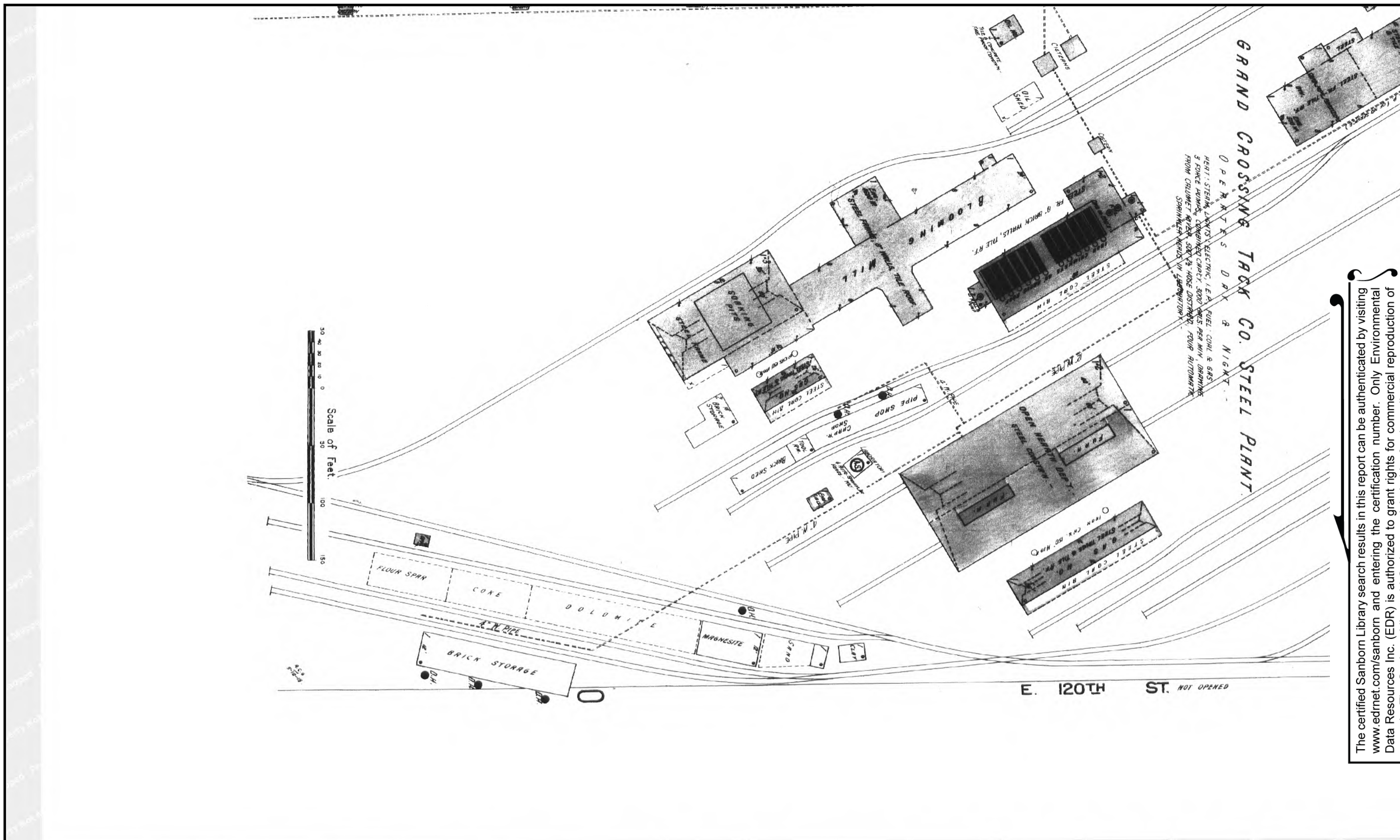

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1913

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128

0 Feet 150 300 600

N

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617

Inquiry Number: 6809942.1
January 07, 2022

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EDR®

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Shelton, CT 06484
Toll Free: 800.352.0050
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Certified Sanborn® Map Report

01/07/22

Site Name:	Client Name:
Southside Recycling	Tetra Tech EM, Inc.
11600 S Burley Avenue	1 South Wacker Drive, 37th Floor
Chicago, IL 60617	Chicago, IL 60606
EDR Inquiry # 6809942.1	Contact: Stacey Durley

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Certified Sanborn Results:

Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004, 2002, 1992, 1989, 1987, 1976, 1950, 1947, 1946, 1913

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Key

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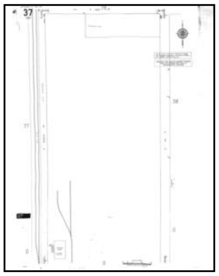
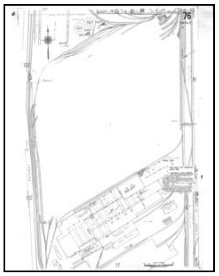
2004 Source Sheets

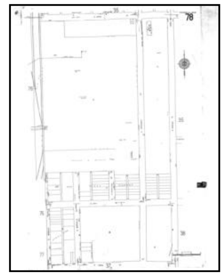


Volume 48, Sheet 37
2004



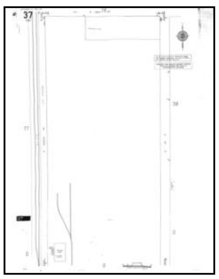
Volume 48, Sheet 76
2004

Volume 48, Sheet 77
2004

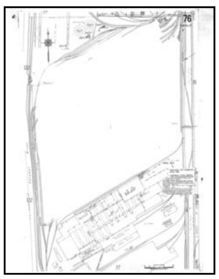


Volume 48, Sheet 78
2004

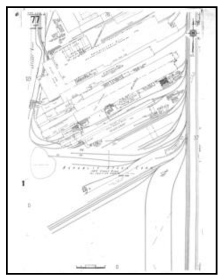
2002 Source Sheets



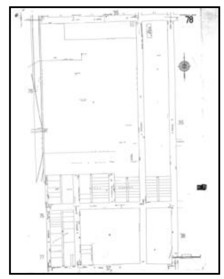
Volume 48, Sheet 37
2002



Volume 48, Sheet 76
2002

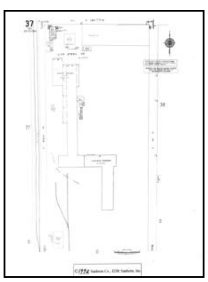


Volume 48, Sheet 77
2002



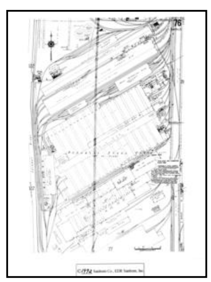
Volume 48, Sheet 78
2002

1992 Source Sheets

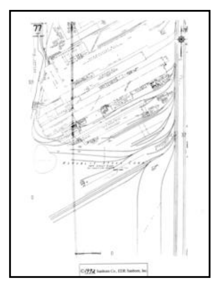


Volume 48, Sheet 37
1992

Volume 48, Sheet 72
1992



Volume 48, Sheet 76
1992



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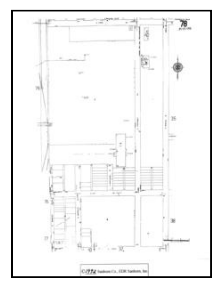
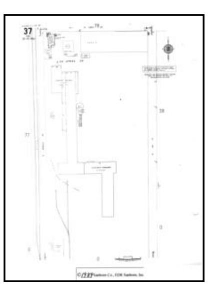
1992



Volume 48, Sheet 78
1992

1989 Source Sheets



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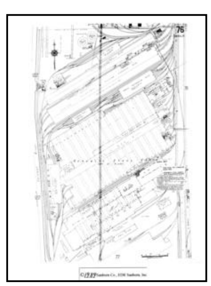
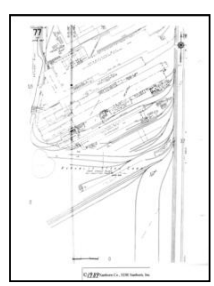
1989

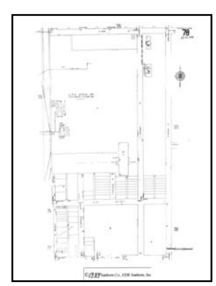
Volume 48, Sheet 72
1989



Volume 48, Sheet 76
1989



Volume 48, Sheet 77
1989

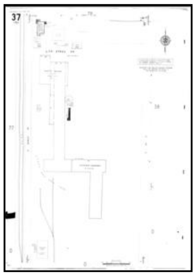


Volume 48, Sheet 78
1989

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

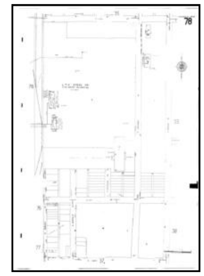
1987 Source Sheets


Volume 48, Sheet 37
1987

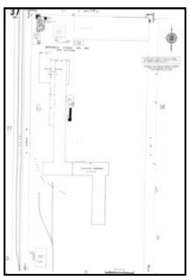

Volume 48, Sheet 72
1987


Volume 48, Sheet 76
1987


Volume 48, Sheet 77
1987


Volume 48, Sheet 78
1987

1976 Source Sheets


Volume 48, Sheet 37
1976


Volume 48, Sheet 72
1976


Volume 48, Sheet 76
1976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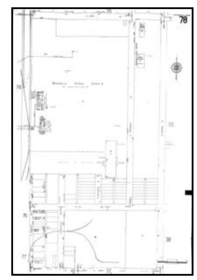
1976


Volume 48, Sheet 78
1976

1950 Source Sheets


Volume 48, Sheet 72
1950


Volume 48, Sheet 76
1950


Volume 48, Sheet 77
1950


Volume 48, Sheet 78
1950

1947 Source Sheets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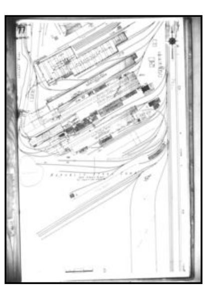
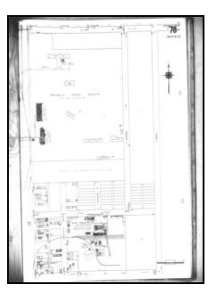
1947


Volume 48, Sheet 77
1947


Volume 48, Sheet 78
1947

Sanborn Sheet Key

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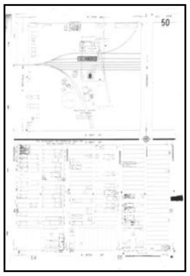
1946 Source Sheets



Volume F, Sheet 50
1946

Volume F, Sheet 128
1946

Volume F, Sheet 48
1946

1913 Source Sheets

Volume F, Sheet 128
1913

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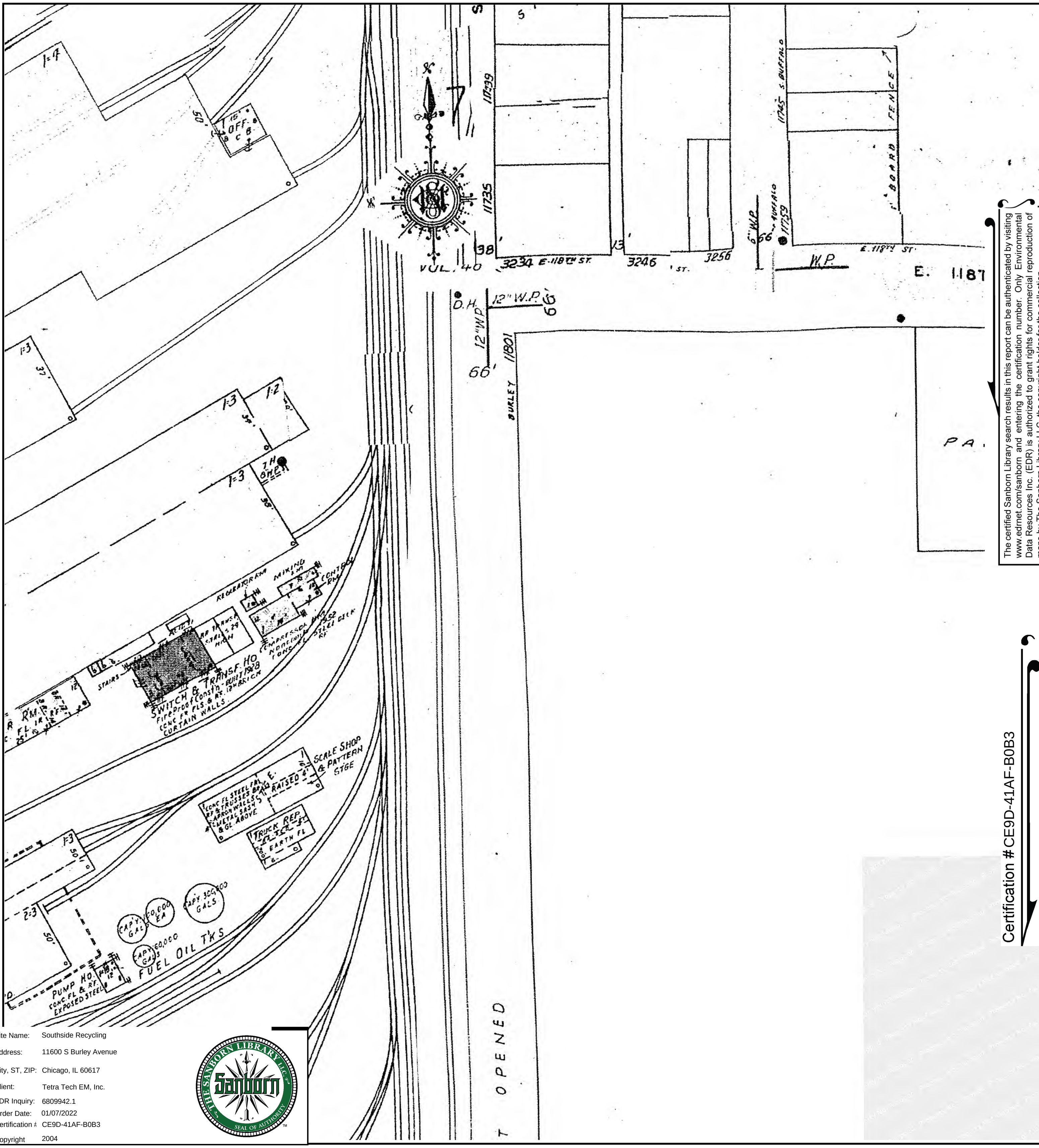
2004



Certification # CE9D-41AF-B0B3

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 2004

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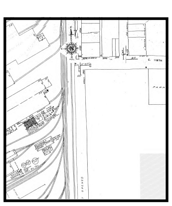

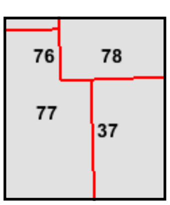

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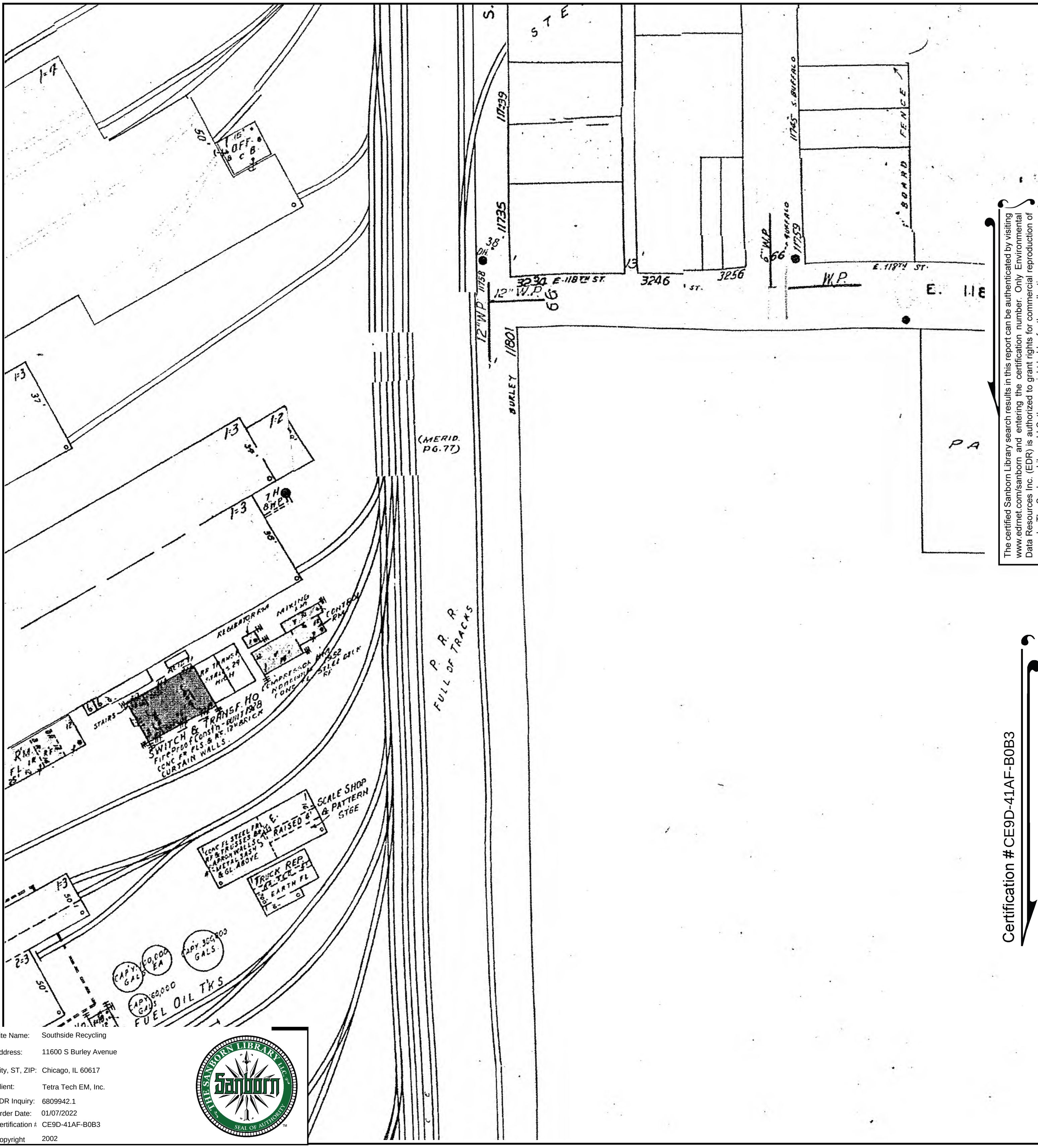
Volume 48, Sheet 77
Volume 48, Sheet 76
Volume 48, Sheet 37

0 Feet 150 300 600



Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
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Copyright	2002

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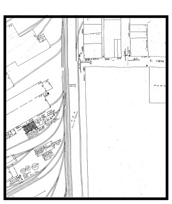

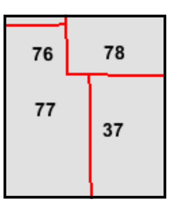

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Volume 48, Sheet 76
Volume 48, Sheet 37

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N

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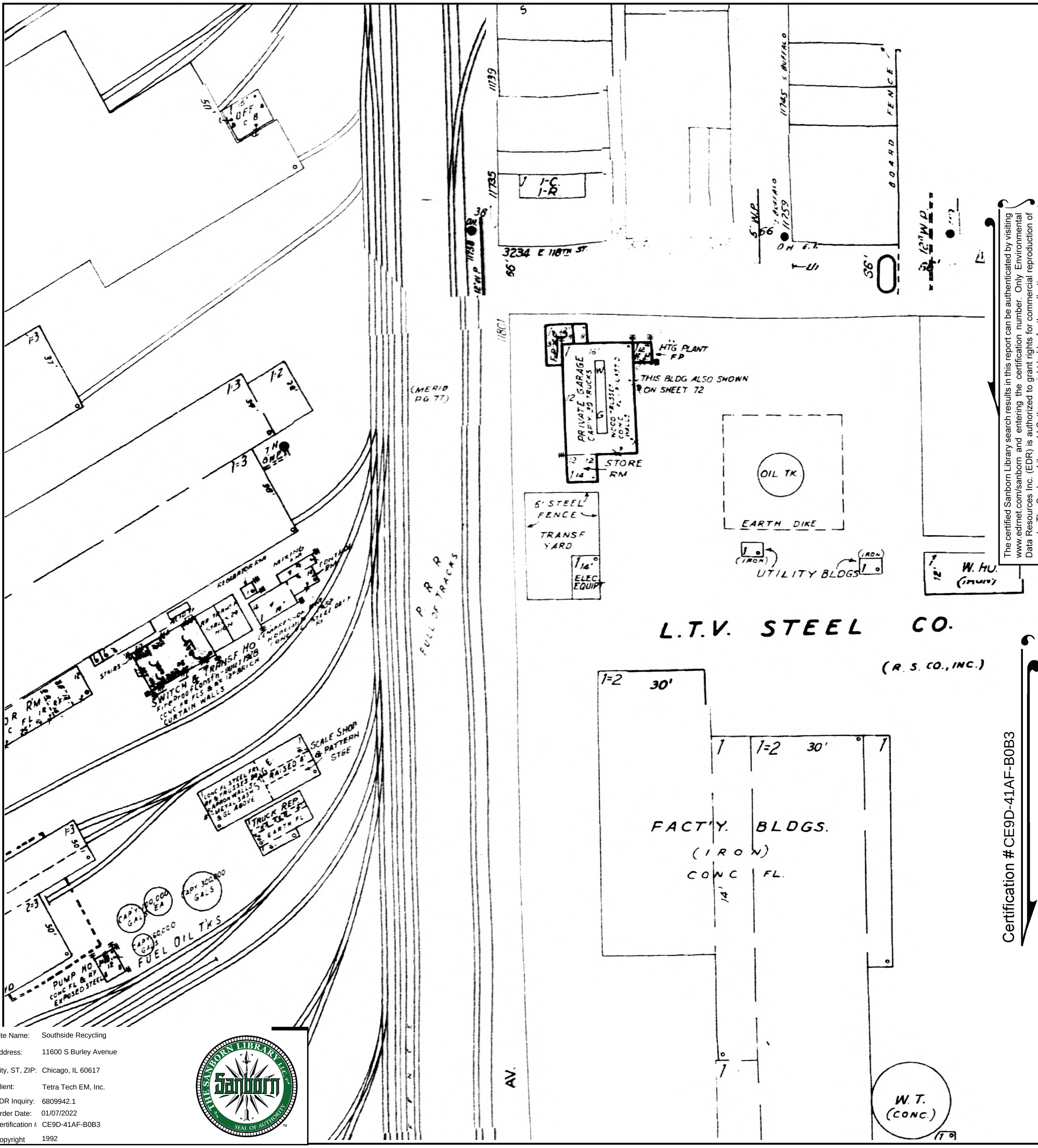
1992



Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
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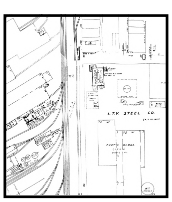

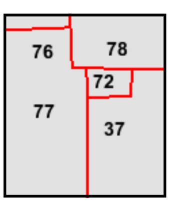

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Volume 48, Sheet 77
Volume 48, Sheet 76
Volume 48, Sheet 72
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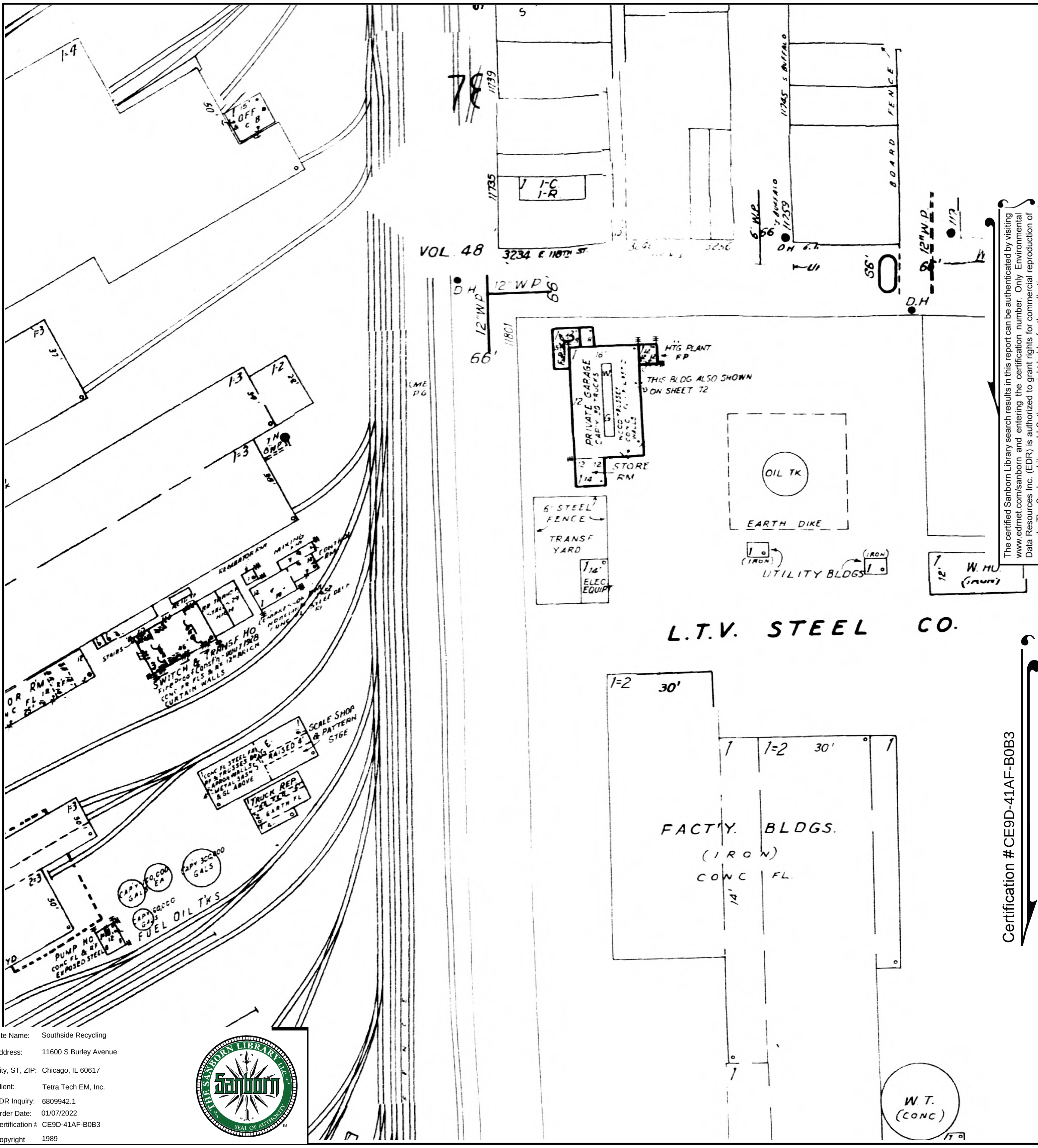
N



Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
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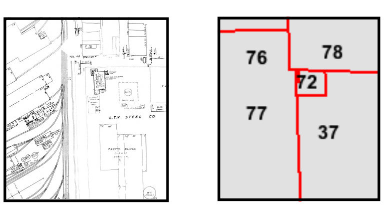

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Volume 48, Sheet 76
Volume 48, Sheet 72
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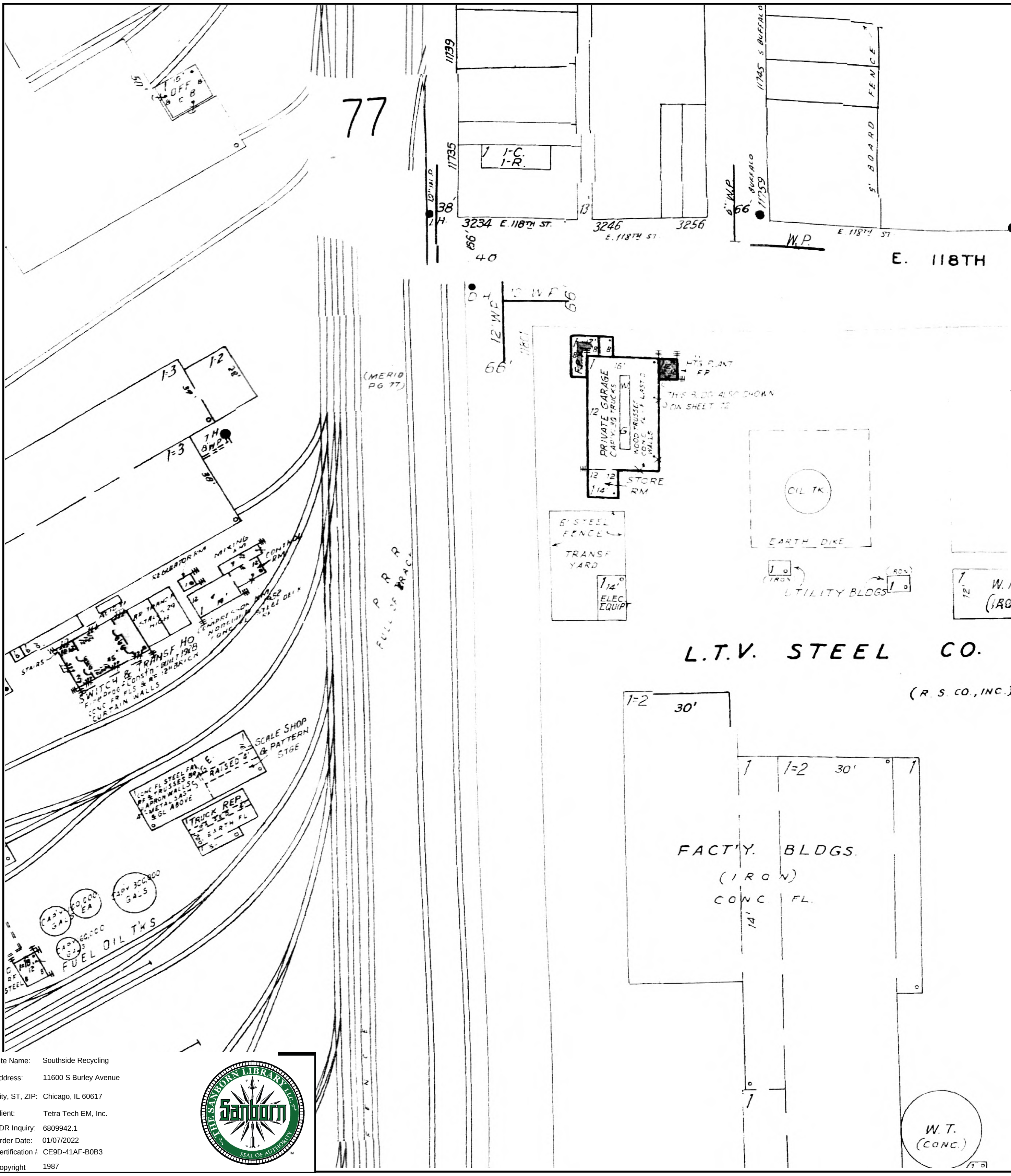
0 Feet 150 300 600

N

Certified Sanborn® Map

1987



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Certification # CE9D-41AF-B0B3

Site Name: Southside Recycling
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EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1987

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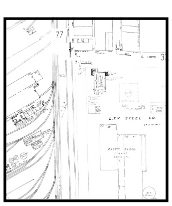

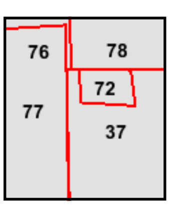

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Volume 48, Sheet 37

0 Feet 150 300 600

N

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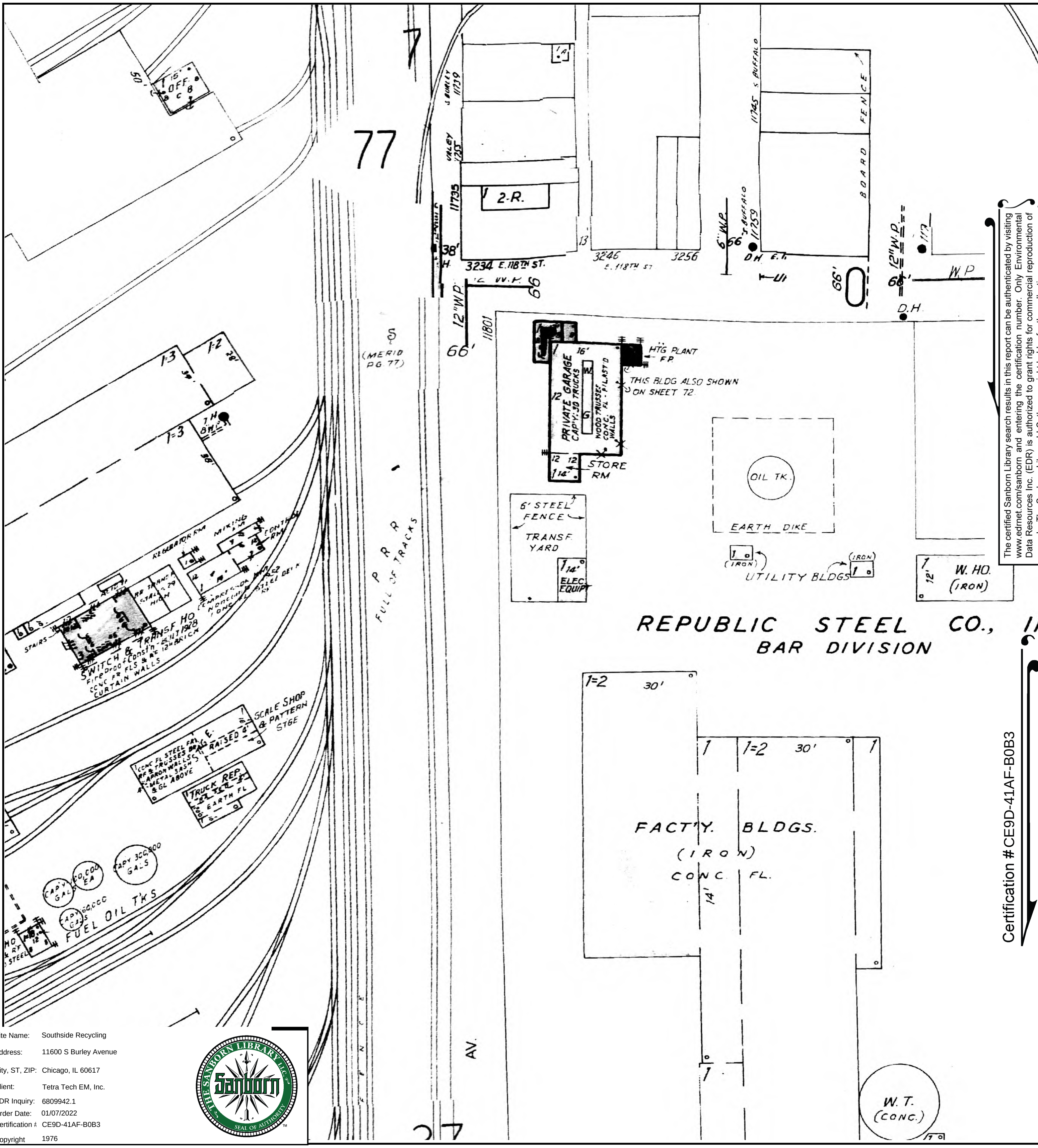
1976



Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
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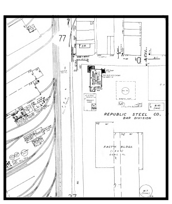

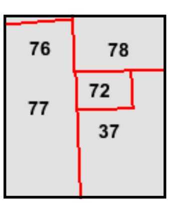

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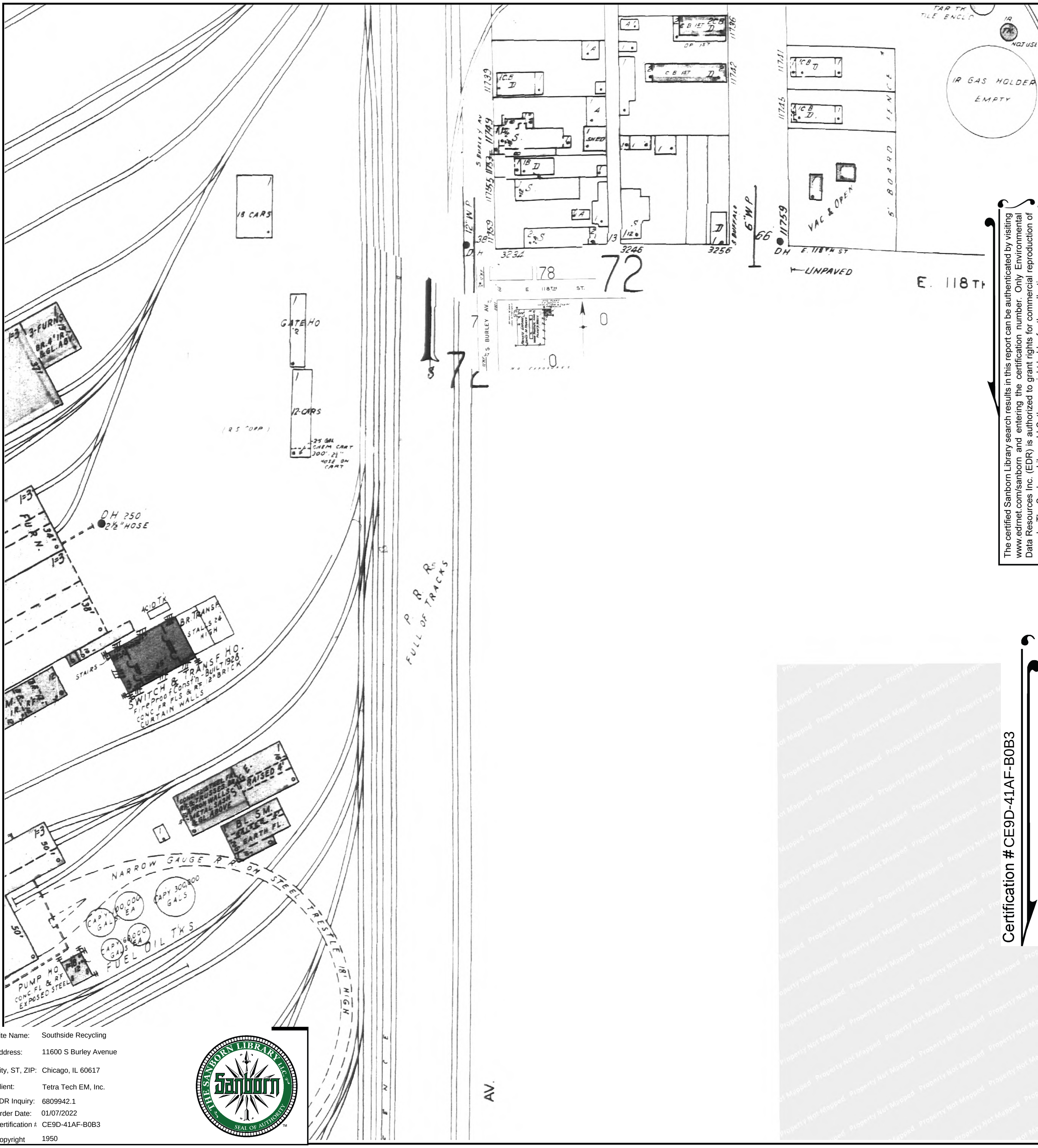
0 Feet 150 300 600

N

Certified Sanborn® Map

1950



Certification # CE9D-41AF-B0B3

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
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Certification # CE9D-41AF-B0B3
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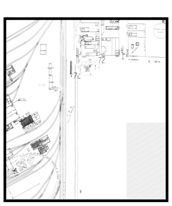

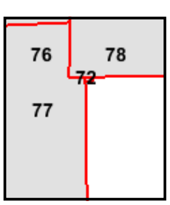

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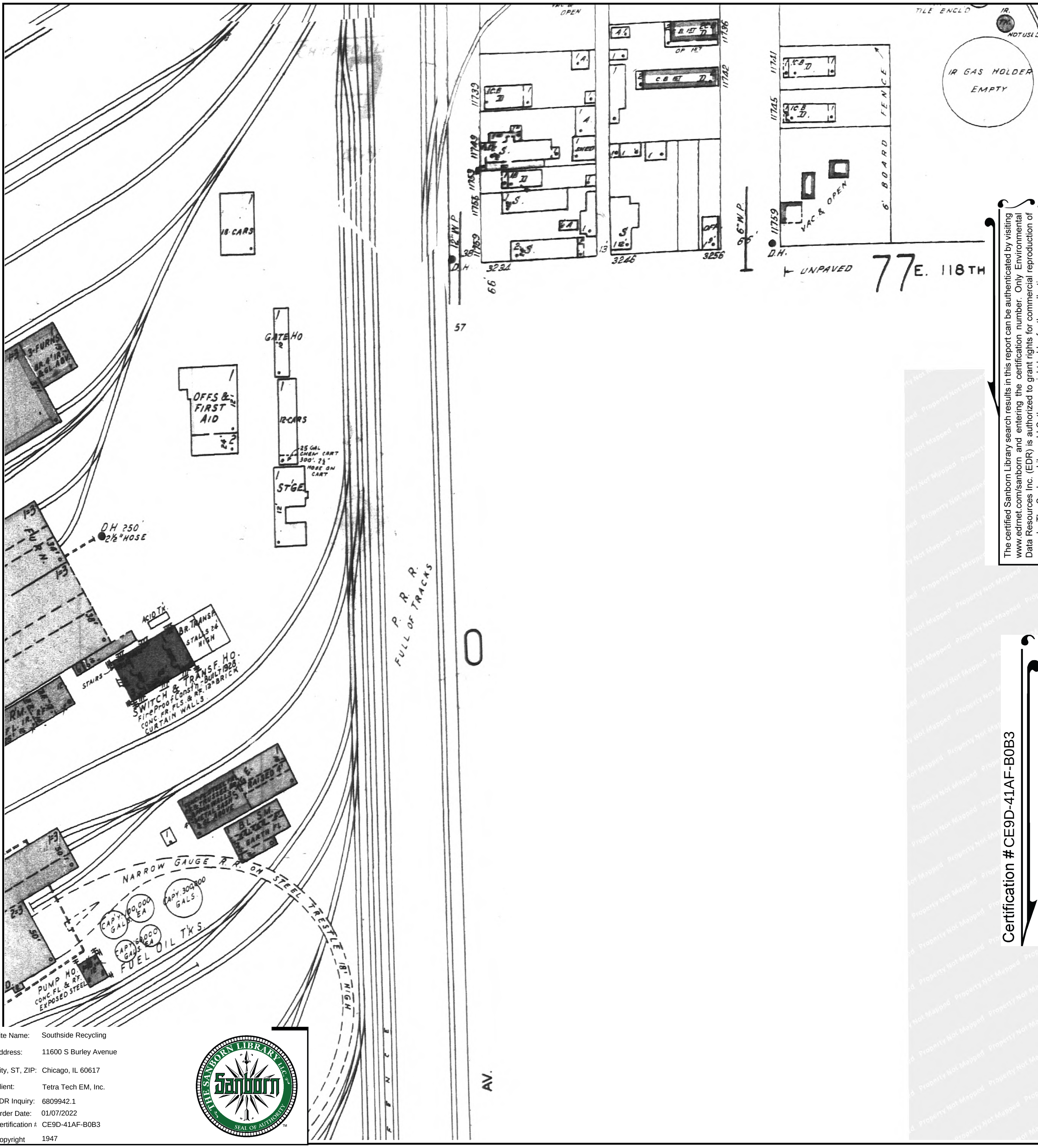
Volume 48, Sheet 77
Volume 48, Sheet 76
Volume 48, Sheet 72

N



Site Name: Southside Recycling
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EDR Inquiry: 6809942.1
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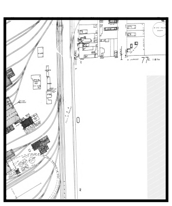

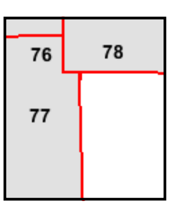

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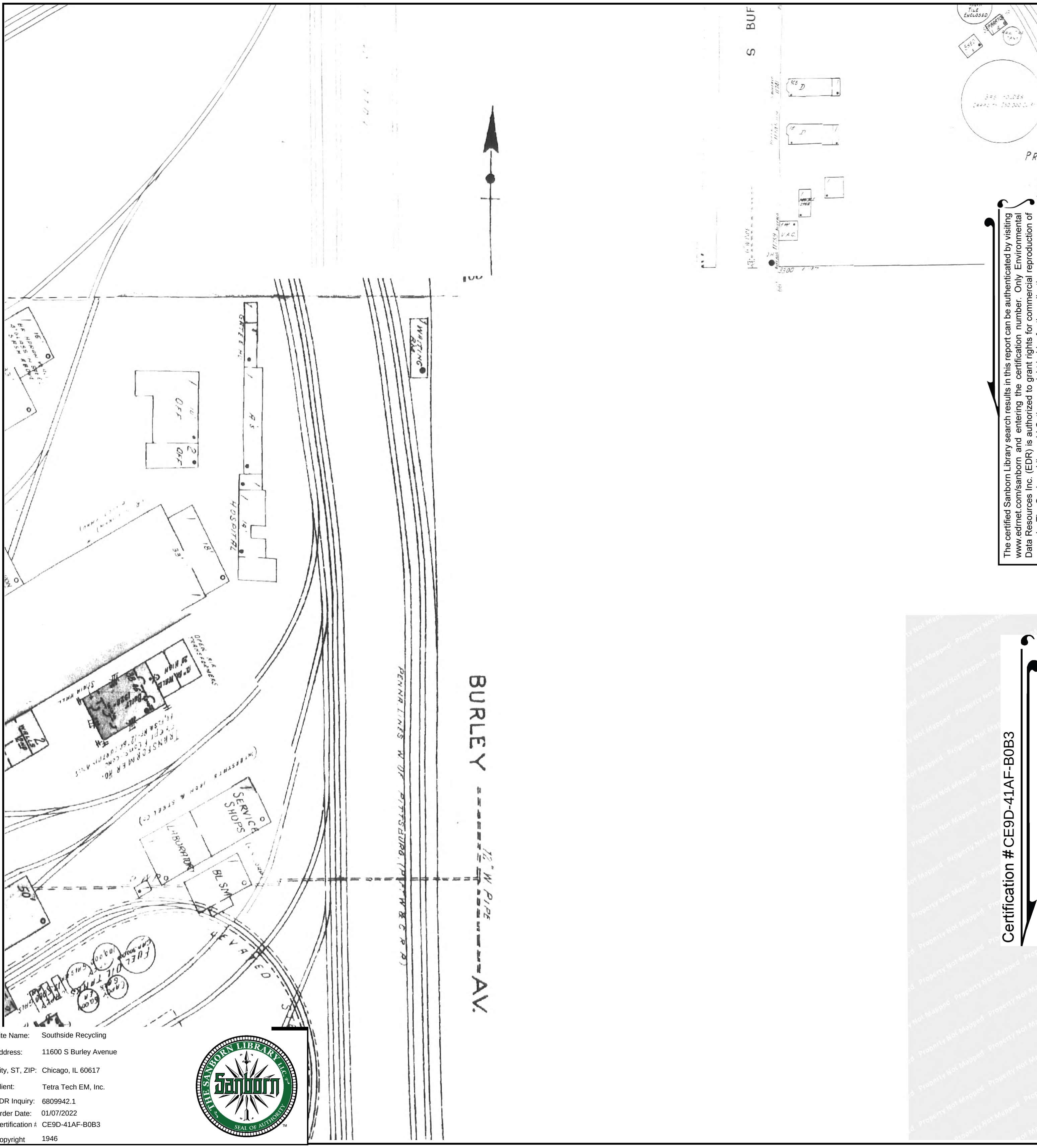
0 Feet 150 300 600

Certified Sanborn® Map

1946



Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1946

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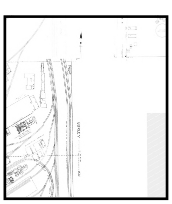
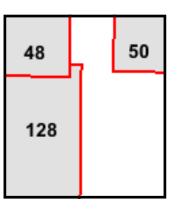
0 Feet 150 300 600

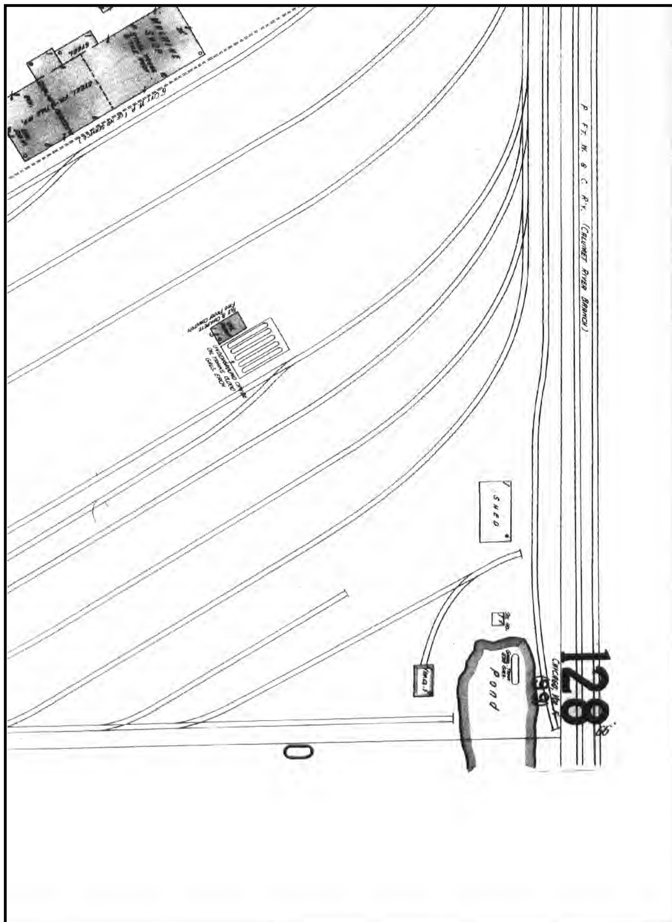




Volume F, Sheet 48
Volume F, Sheet 128
Volume F, Sheet 50

N

Certified Sanborn® Map



Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1913

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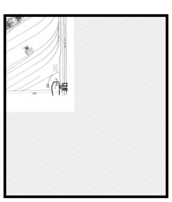

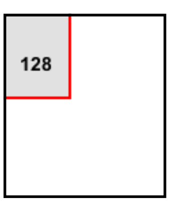

Volume F, Sheet 128

0 Feet 150 300 600

N

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617

Inquiry Number: 6809942.1
January 07, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/07/22

Site Name:

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617
EDR Inquiry # 6809942.1

Client Name:

Tetra Tech EM, Inc.
1 South Wacker Drive, 37th Floor
Chicago, IL 60606
Contact: Stacey Durley

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Certified Sanborn Results:

Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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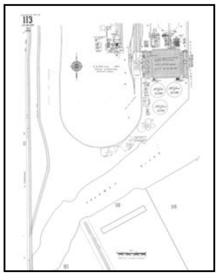
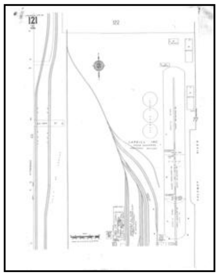
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2004 Source Sheets

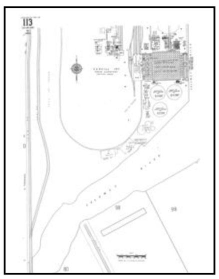

Volume 48, Sheet 113
2004

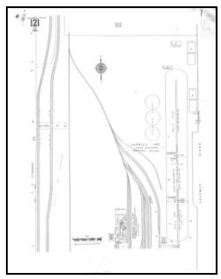

Volume 48, Sheet 121
2004


Volume 48, Sheet 77
2004

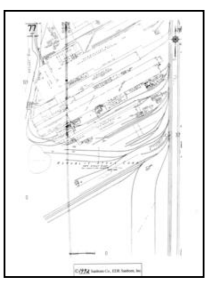
2002 Source Sheets

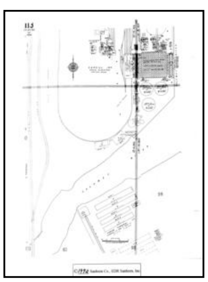

Volume 48, Sheet 77
2002

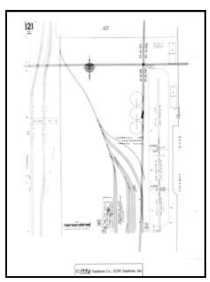

Volume 48, Sheet 113
2002


Volume 48, Sheet 121
2002

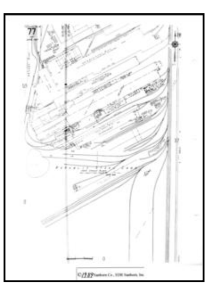
1992 Source Sheets


Volume 48, Sheet 77
1992

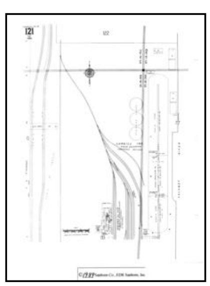

Volume 48, Sheet 113
1992


Volume 48, Sheet 121
1992

1989 Source Sheets


Volume 48, Sheet 77
1989


Volume 48, Sheet 113
1989


Volume 48, Sheet 121
1989

Sanborn Sheet Key

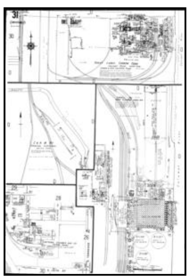
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1987 Source Sheets

Volume 48, Sheet 77
1987

Volume 48, Sheet 113
1987

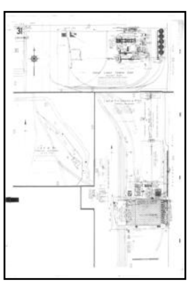
1976 Source Sheets



Volume 48, Sheet 31
1976

Volume 48, Sheet 77
1976

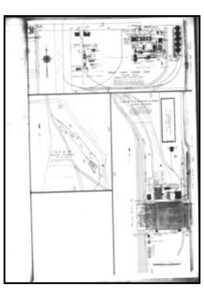
1950 Source Sheets



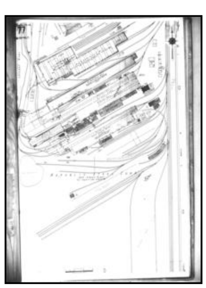
Volume 48, Sheet 31
1950

Volume 48, Sheet 77
1950

1947 Source Sheets



Volume 48, Sheet 31
1947



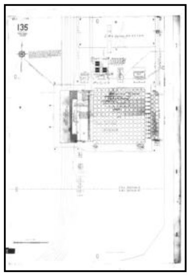
Volume 48, Sheet 77
1947

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1946 Source Sheets

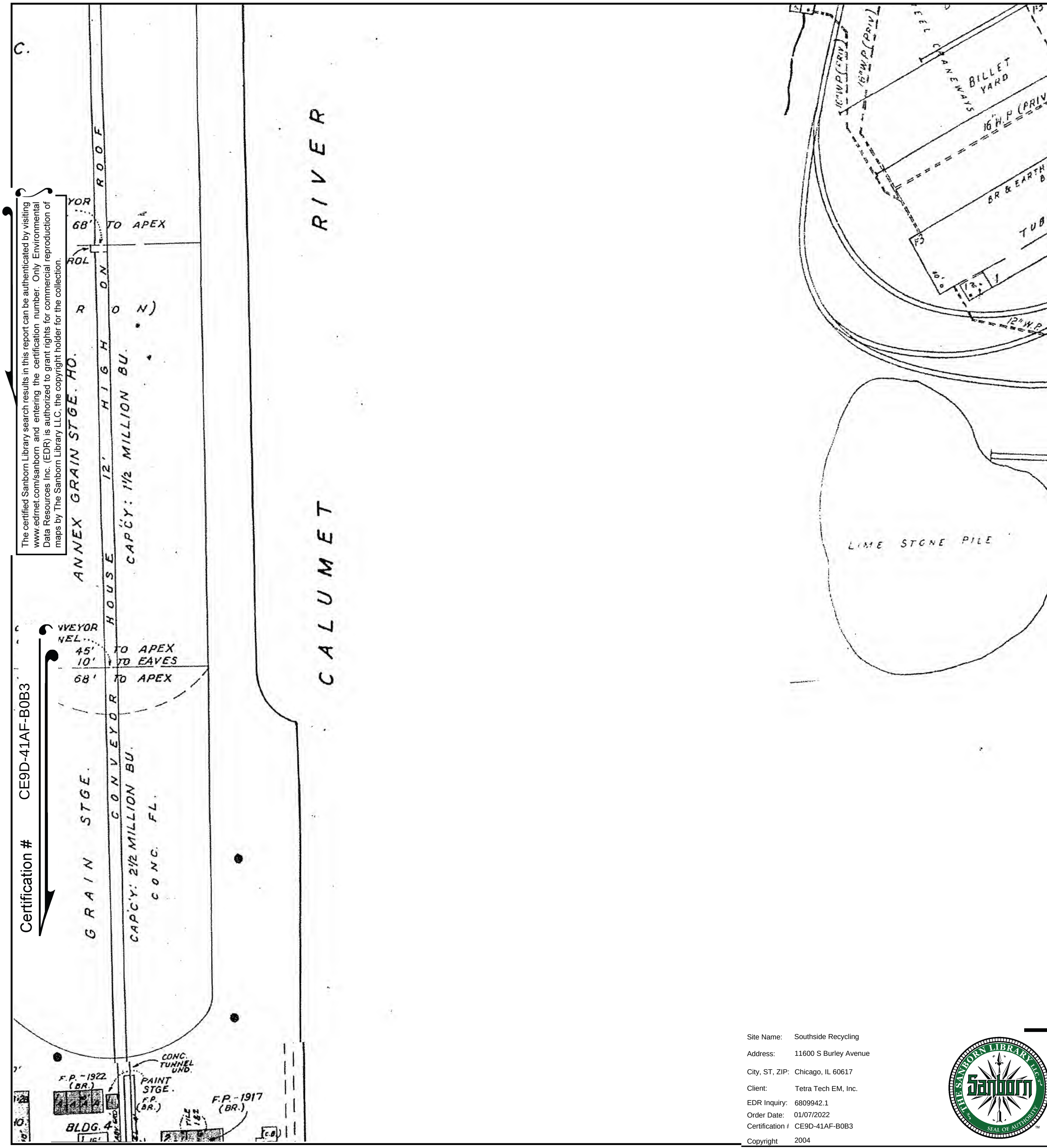
Volume F, Sheet 128
1946



Volume F, Sheet 135
1946

Certified Sanborn® Map

2004



Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	2004

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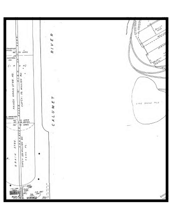

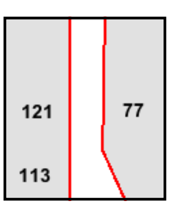

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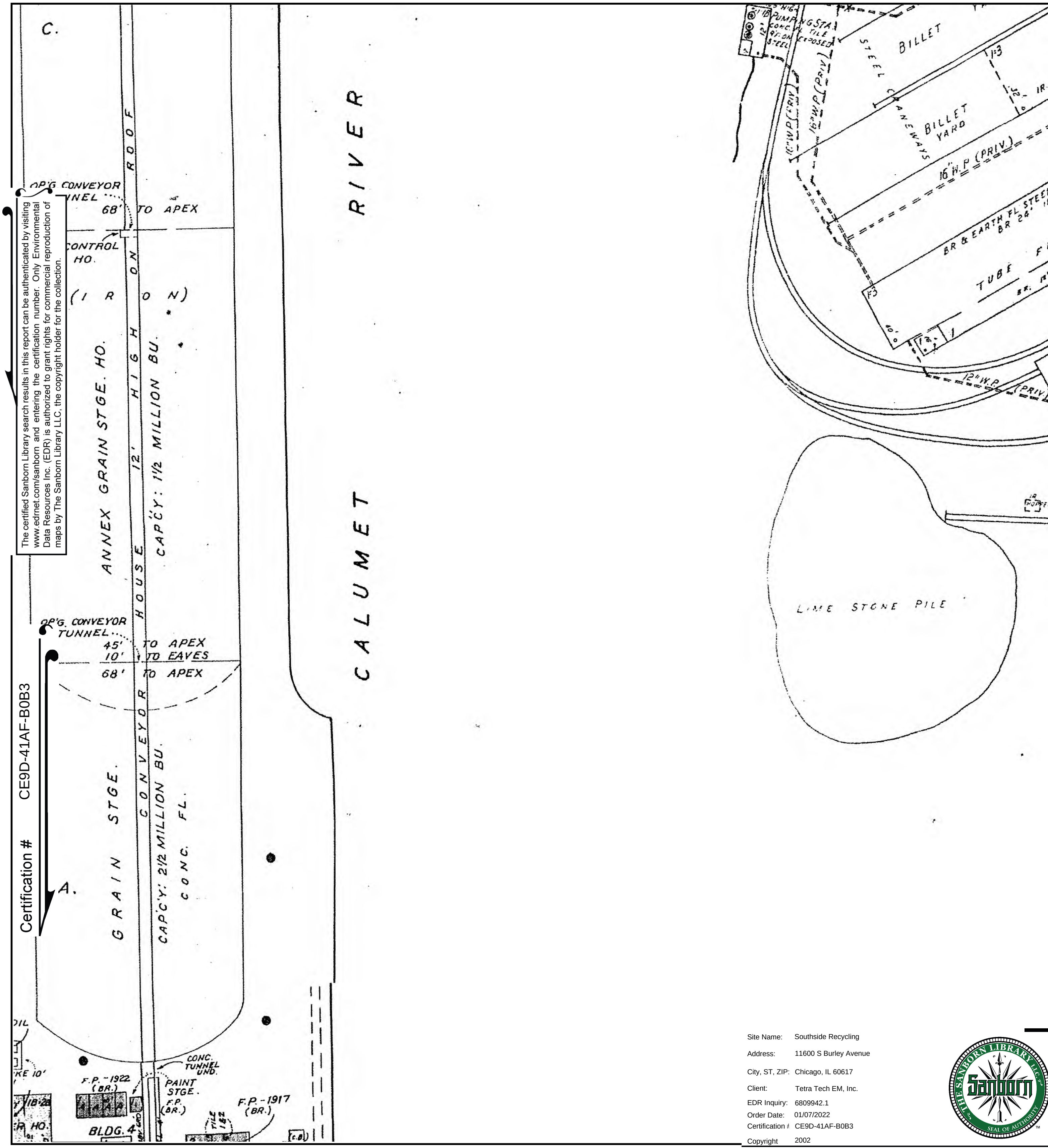
Volume 48, Sheet 113

0 Feet 150 300 600

N

Certified Sanborn® Map

2002



Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
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Certification #	CE9D-41AF-B0B3
Copyright	2002

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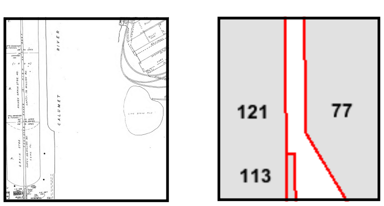
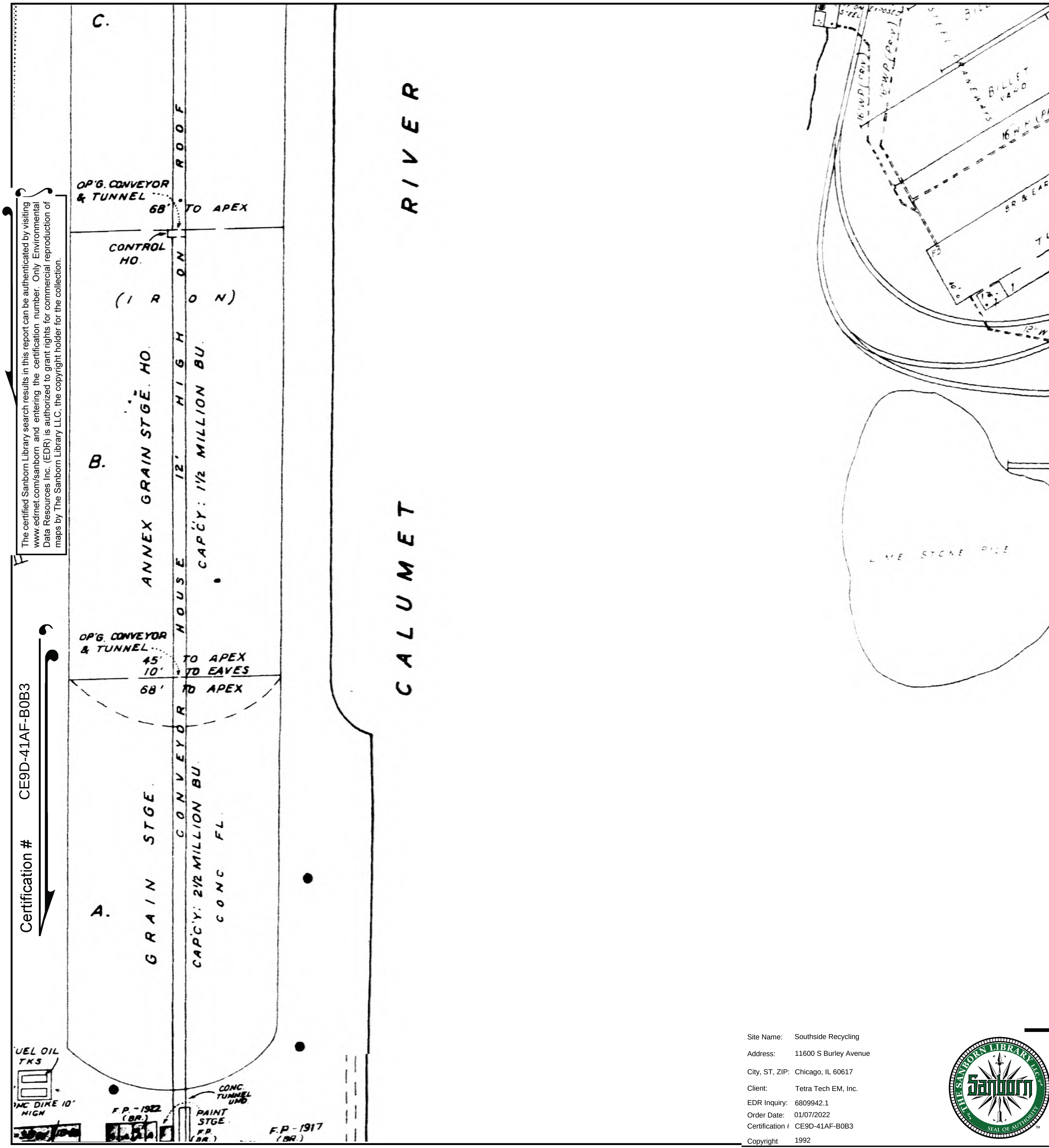


Volume 48, Sheet 121
Volume 48, Sheet 113
Volume 48, Sheet 77

N

Certified Sanborn® Map

1992



Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1992

This Certified Sanborn Map combines the following sheets.
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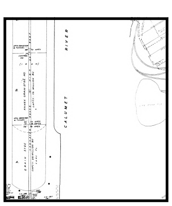
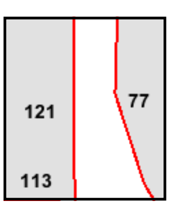
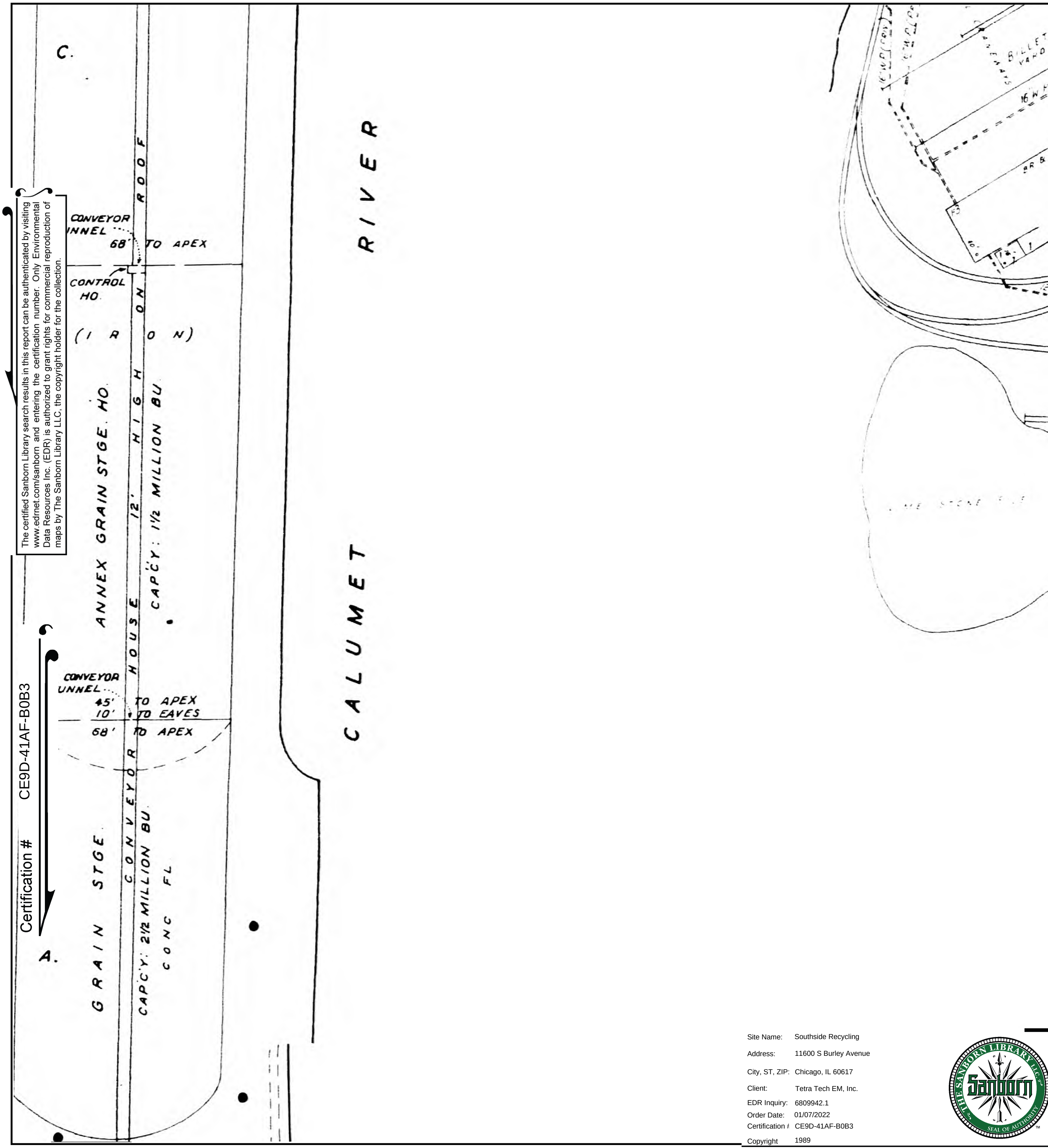




Volume 48, Sheet 121
Volume 48, Sheet 113
Volume 48, Sheet 77

N



Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1989

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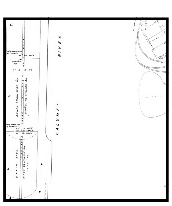
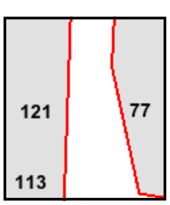


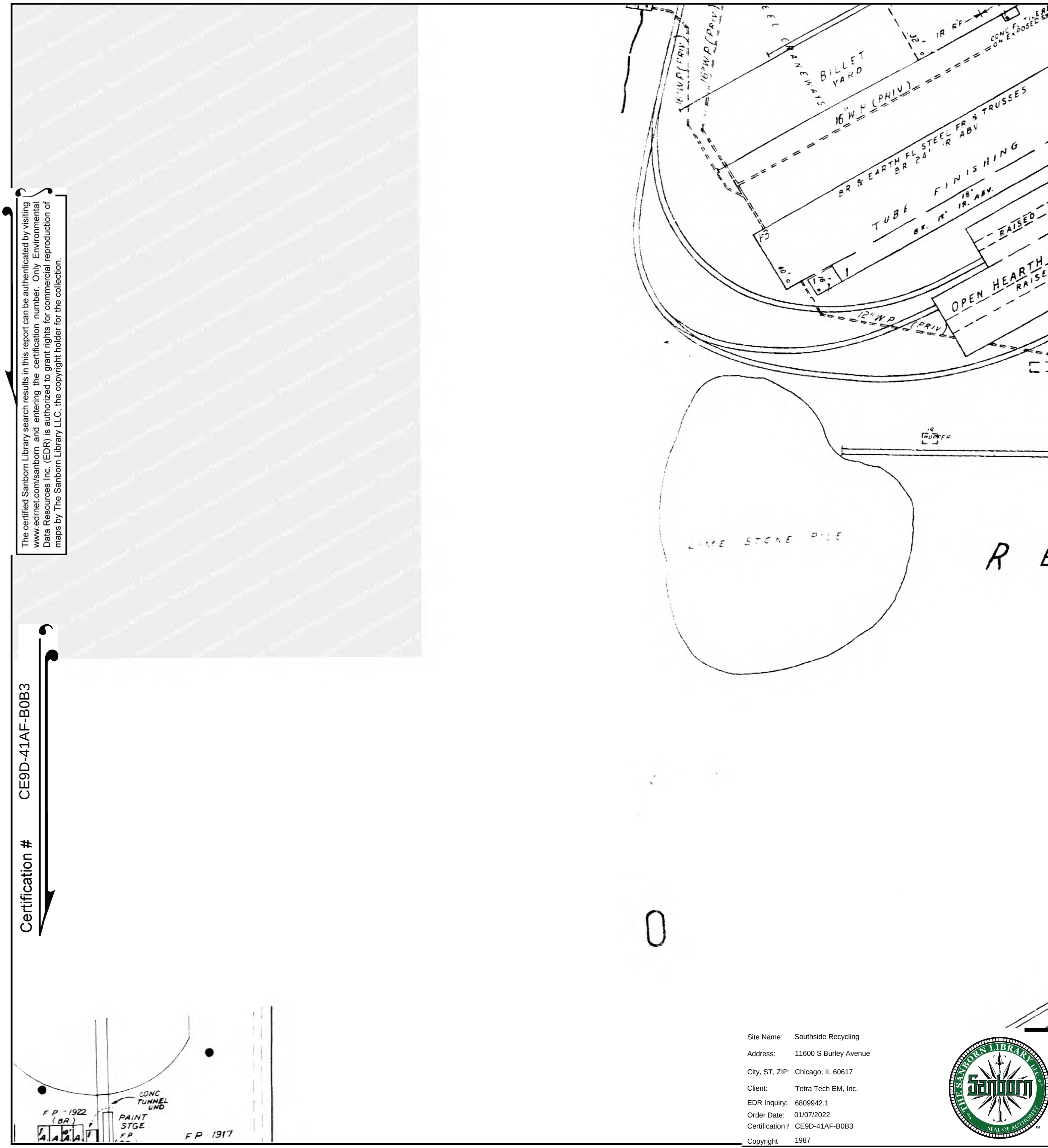


Volume 48, Sheet 121
Volume 48, Sheet 113
Volume 48, Sheet 77

0 Feet 150 300 600

N

Certification # CE9D-41AF-B0B3



Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
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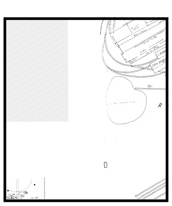

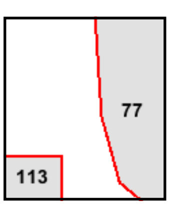

Volume 48, Sheet 113
Volume 48, Sheet 77

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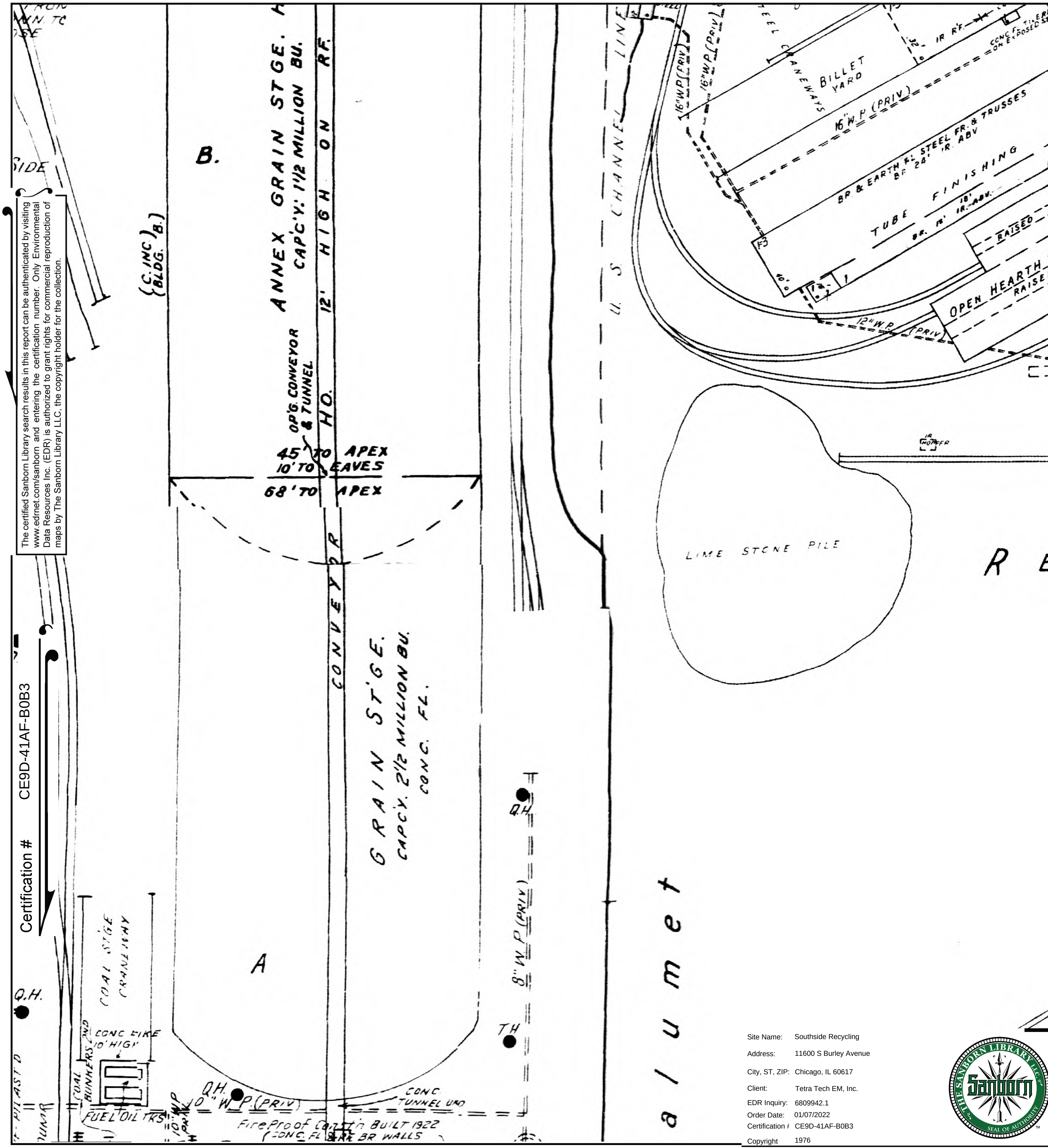
1976



Certification # CE9D-41AF-B0B3

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
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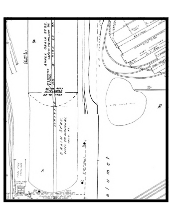
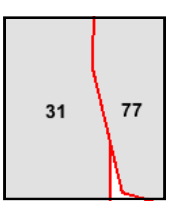
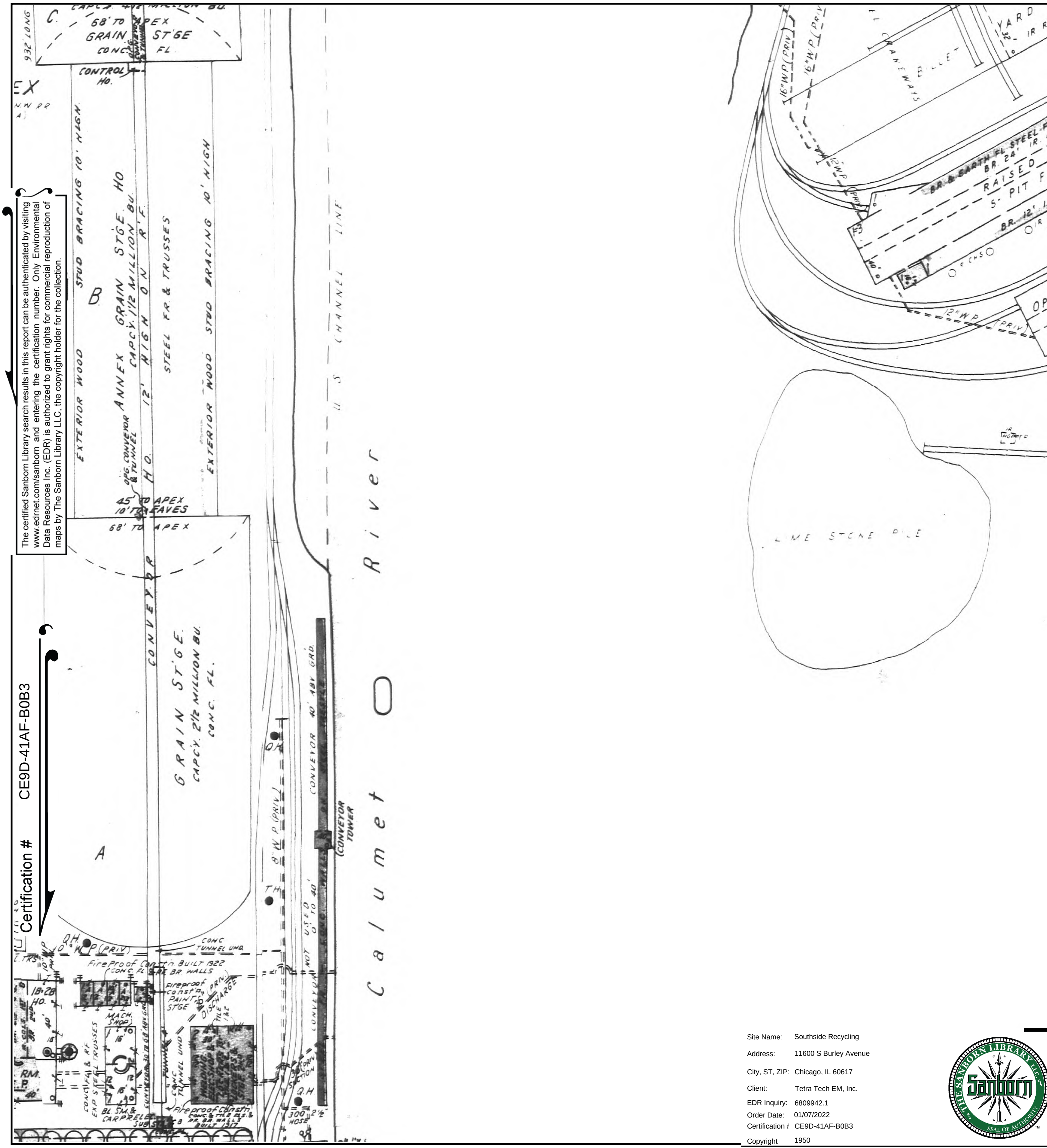




Volume 48, Sheet 77
Volume 48, Sheet 31



Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1950

0 Feet 150 300 600

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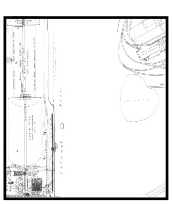
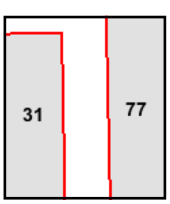


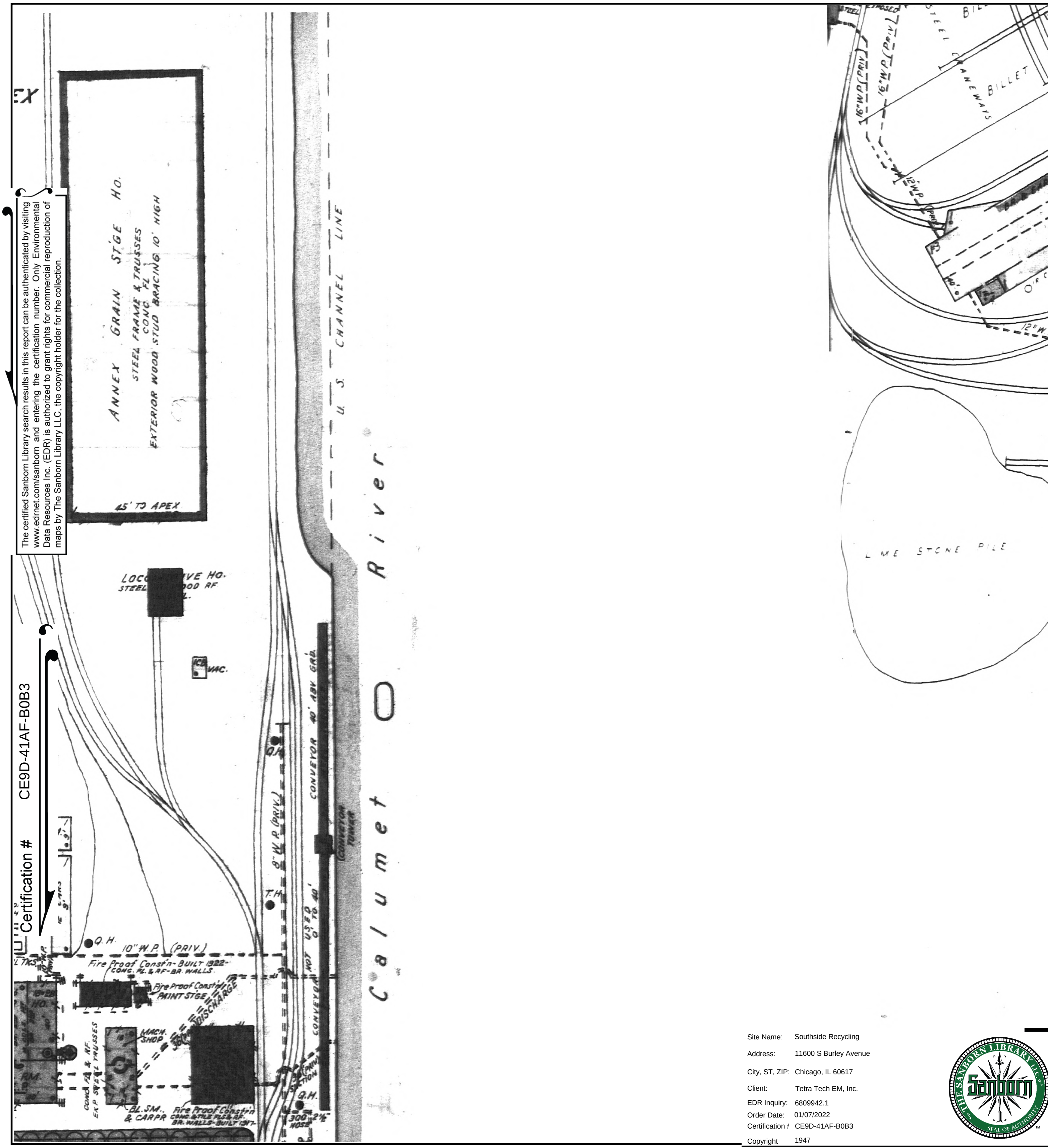


Volume 48, Sheet 77
Volume 48, Sheet 31

N

Certified Sanborn® Map

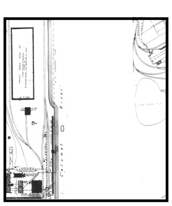
1947

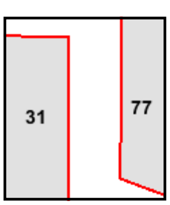


Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1947

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.





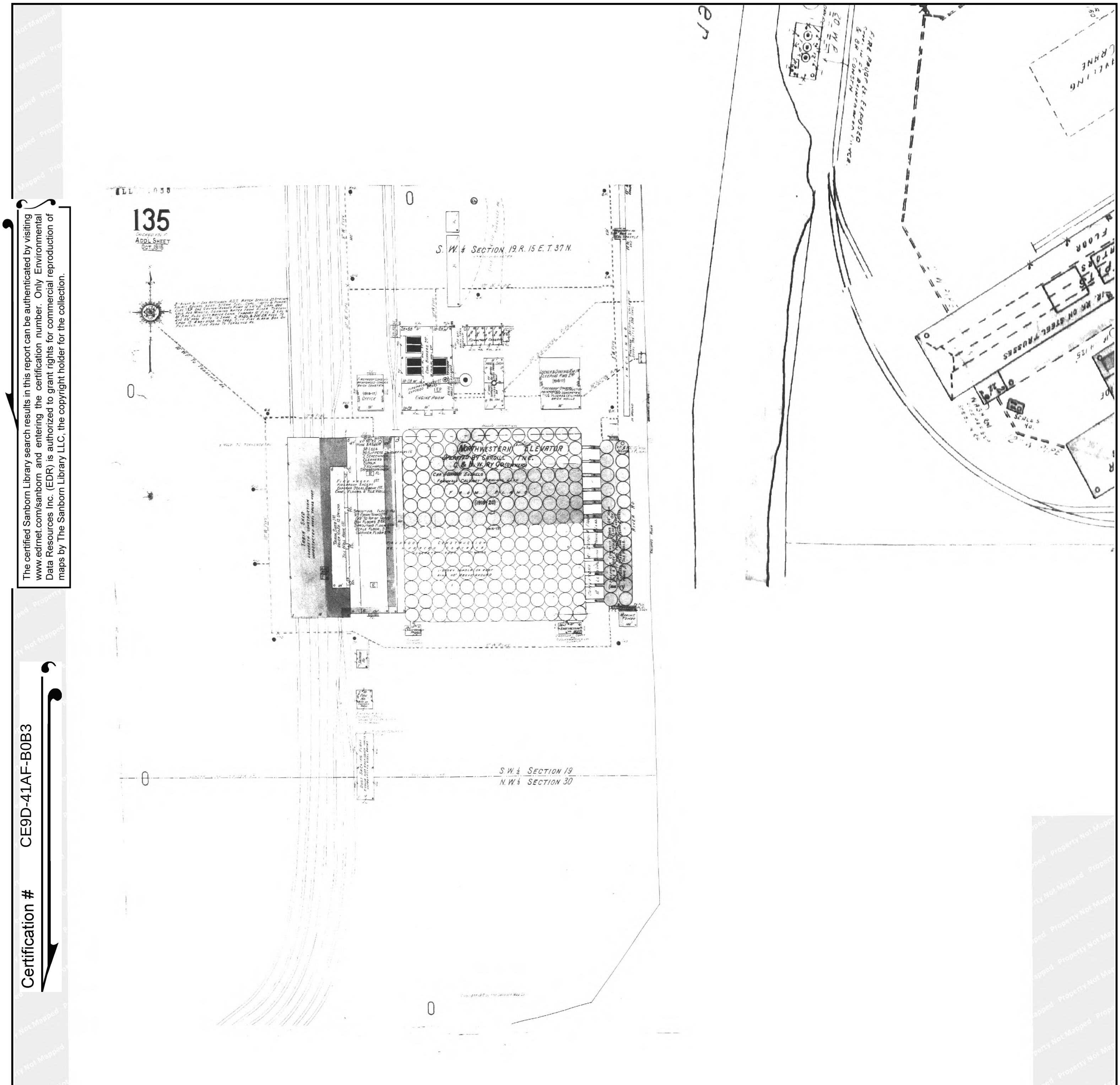
Volume 48, Sheet 77
Volume 48, Sheet 31

0 Feet 150 300 600

N

Certified Sanborn® Map

1946



Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification # CE9D-41AF-B0B3
Copyright 1946

This Certified Sanborn Map combines the following sheets.
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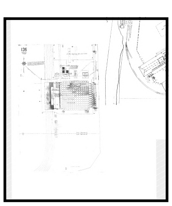
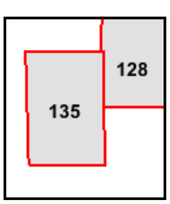
0 Feet 150 300 600





Volume F, Sheet 135
Volume F, Sheet 128

Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617

Inquiry Number: 6809942.1
January 07, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/07/22

Site Name:	**Client Name:**
Southside Recycling	Tetra Tech EM, Inc.
11600 S Burley Avenue	1 South Wacker Drive, 37th Floor
Chicago, IL 60617	Chicago, IL 60606
EDR Inquiry # 6809942.1	Contact: Stacey Durley

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Certified Sanborn Results:

Certification # CE9D-41AF-B0B3

PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

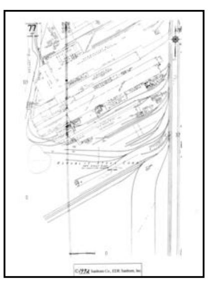
2004 Source Sheets

Volume 48, Sheet 77
2004

2002 Source Sheets

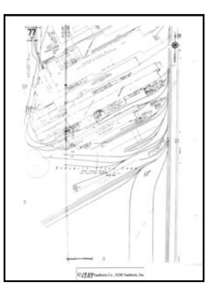
Volume 48, Sheet 77
2002

1992 Source Sheets



Volume 48, Sheet 77
1992

1989 Source Sheets



Volume 48, Sheet 77
1989

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1987 Source Sheets

Volume 48, Sheet 77
1987

1976 Source Sheets

Volume 48, Sheet 77
1976

1950 Source Sheets

Volume 48, Sheet 77
1950

1947 Source Sheets

Volume 48, Sheet 77
1947

Sanborn Sheet Key

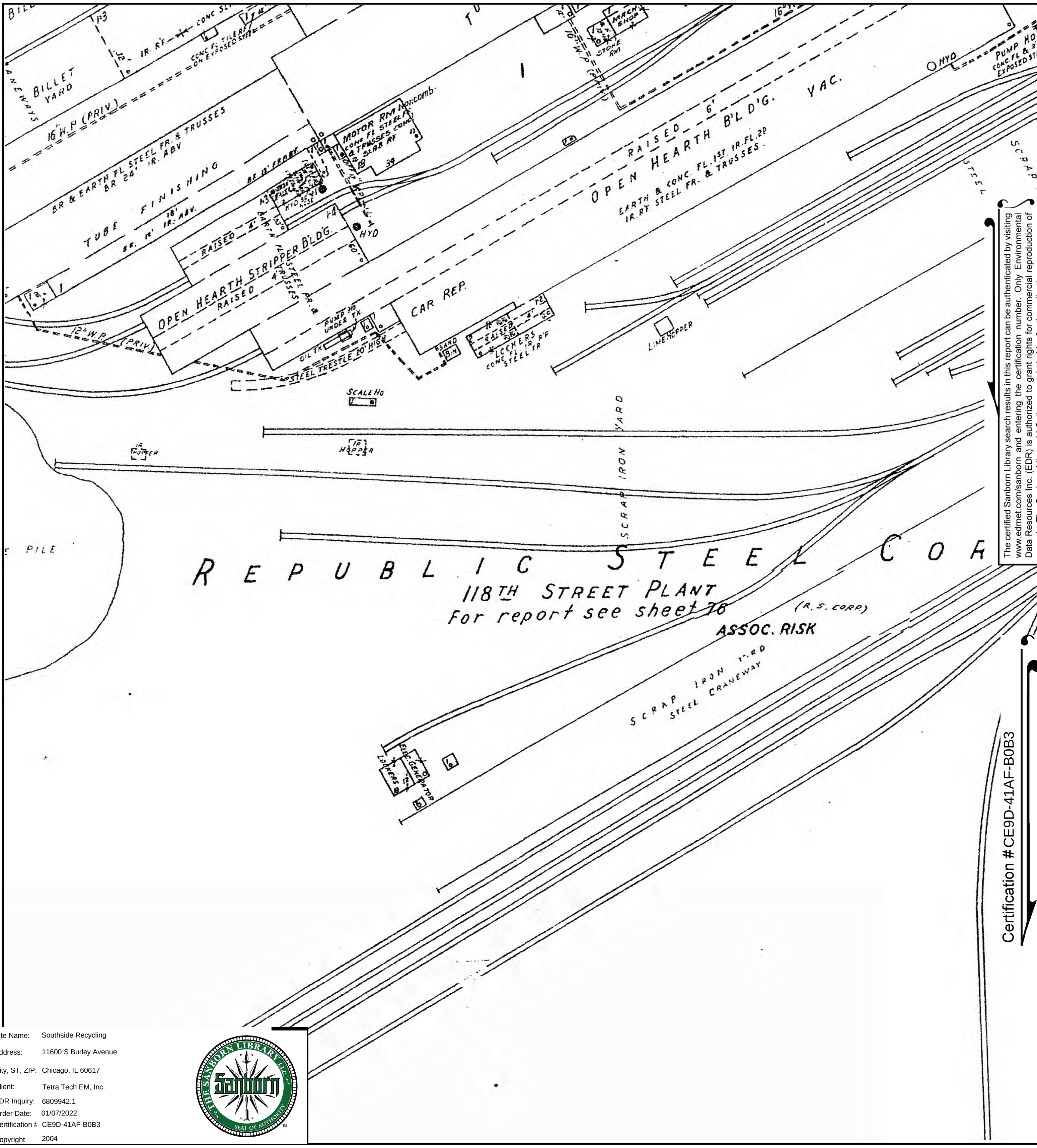
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1946 Source Sheets

Volume F, Sheet 128
1946

Certified Sanborn® Map

2004



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Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
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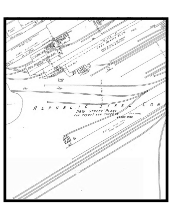

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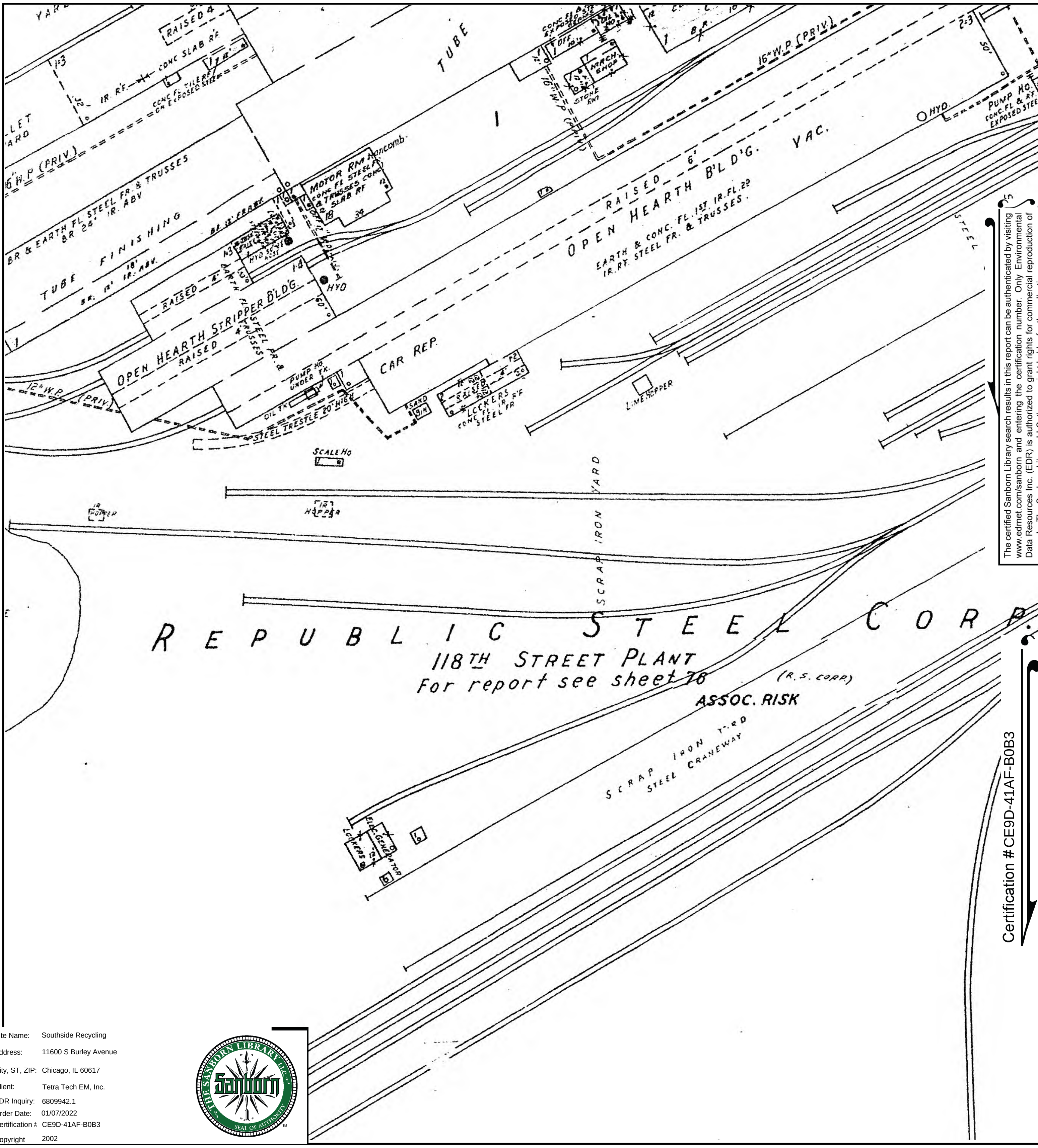
Volume 48, Sheet 77

N



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Volume 48, Sheet 77

77

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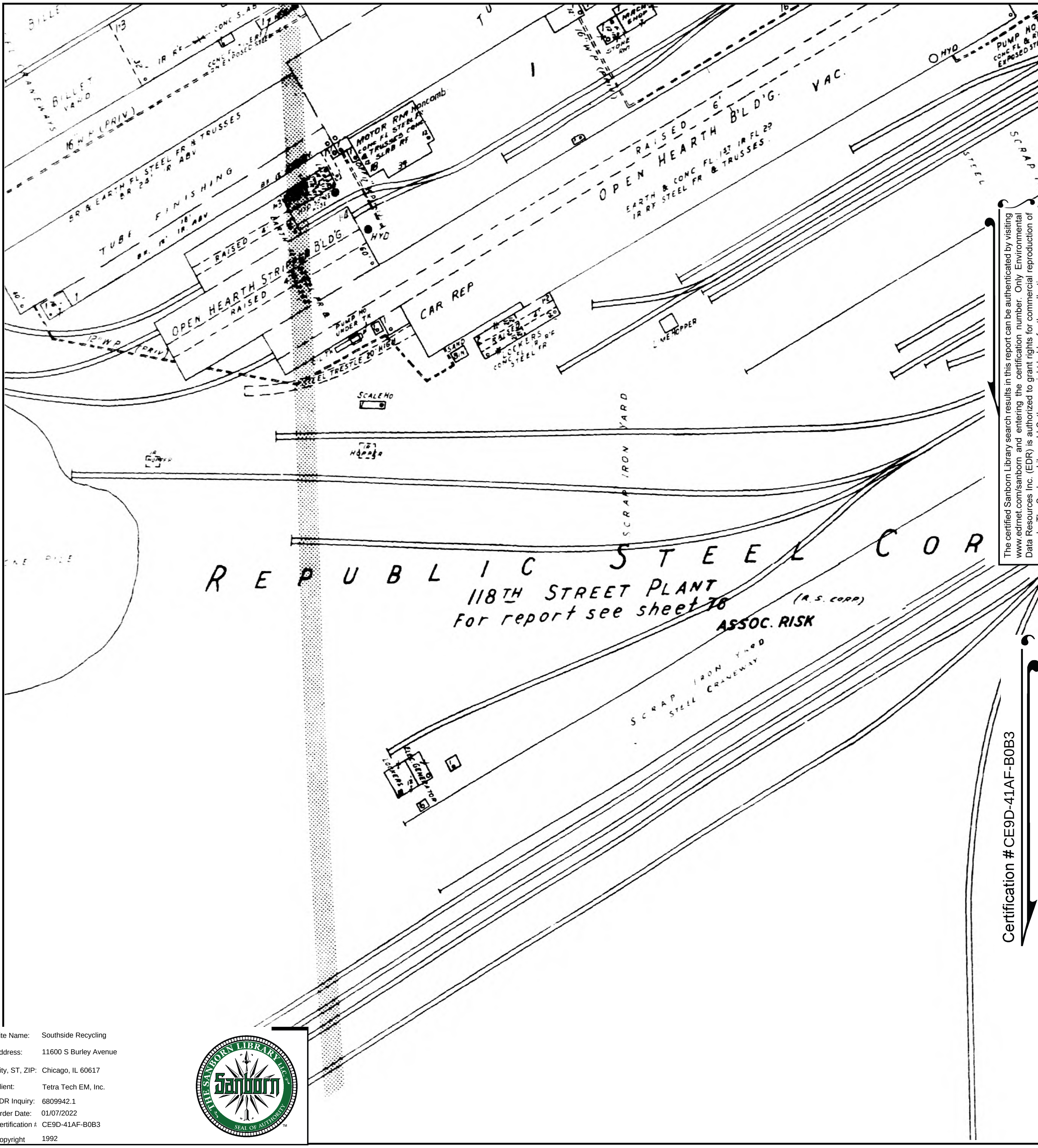

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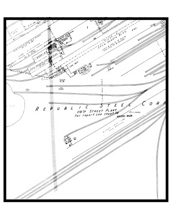
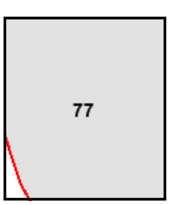
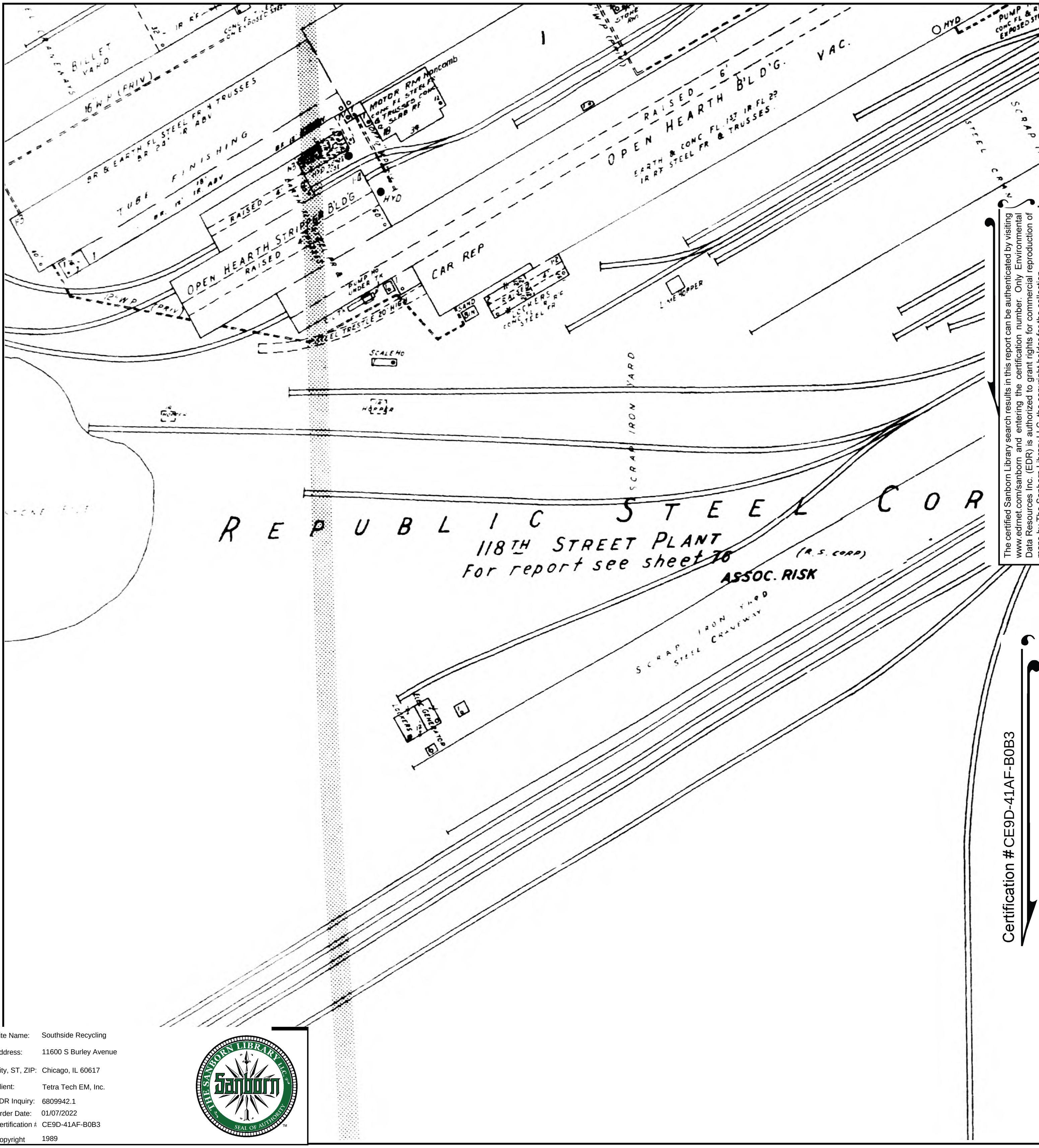




Volume 48, Sheet 77



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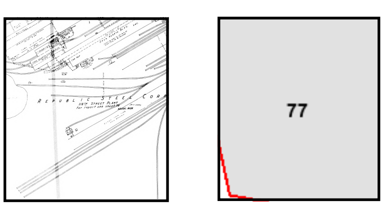

Volume 48, Sheet 77

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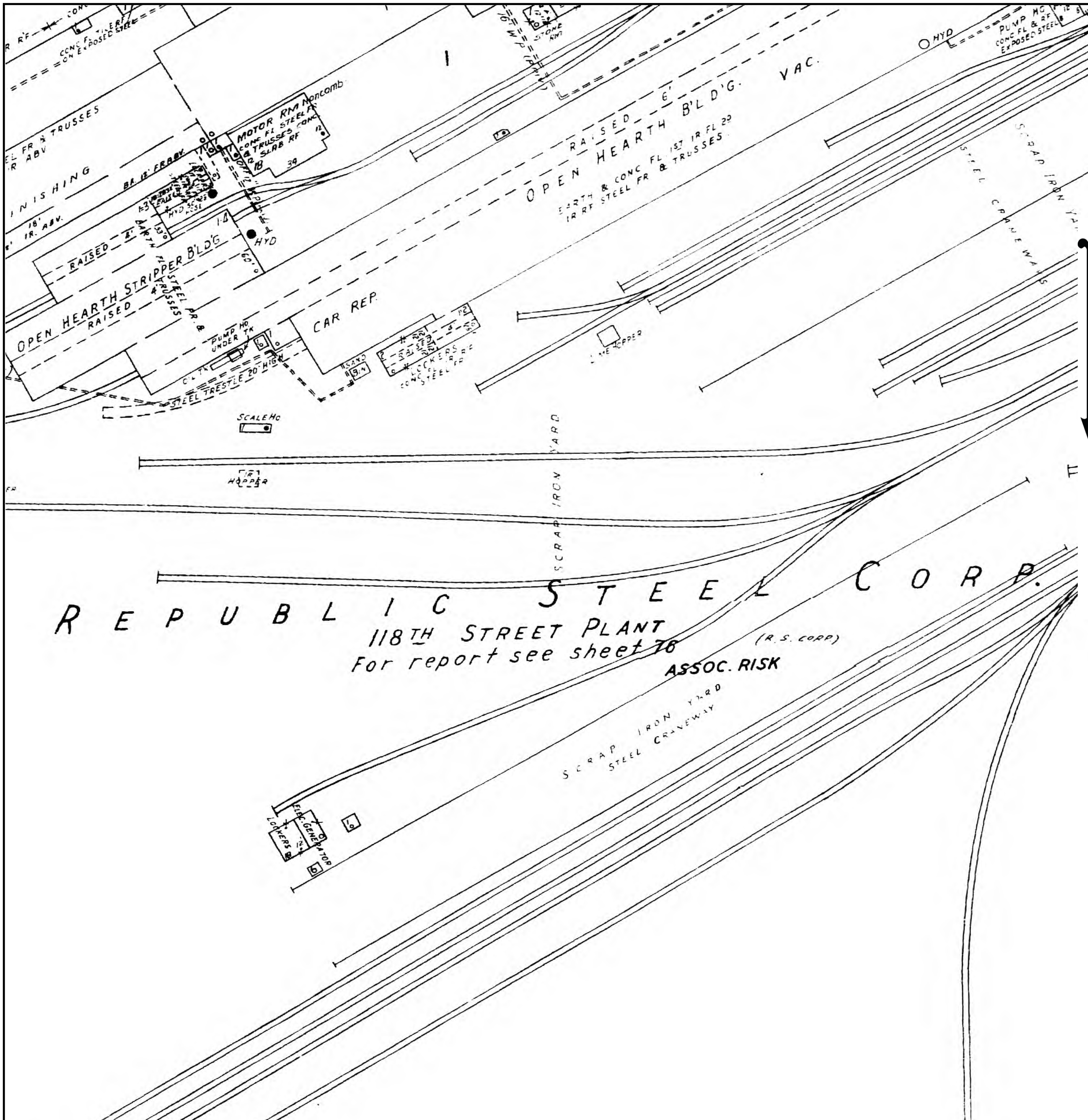
1987



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77

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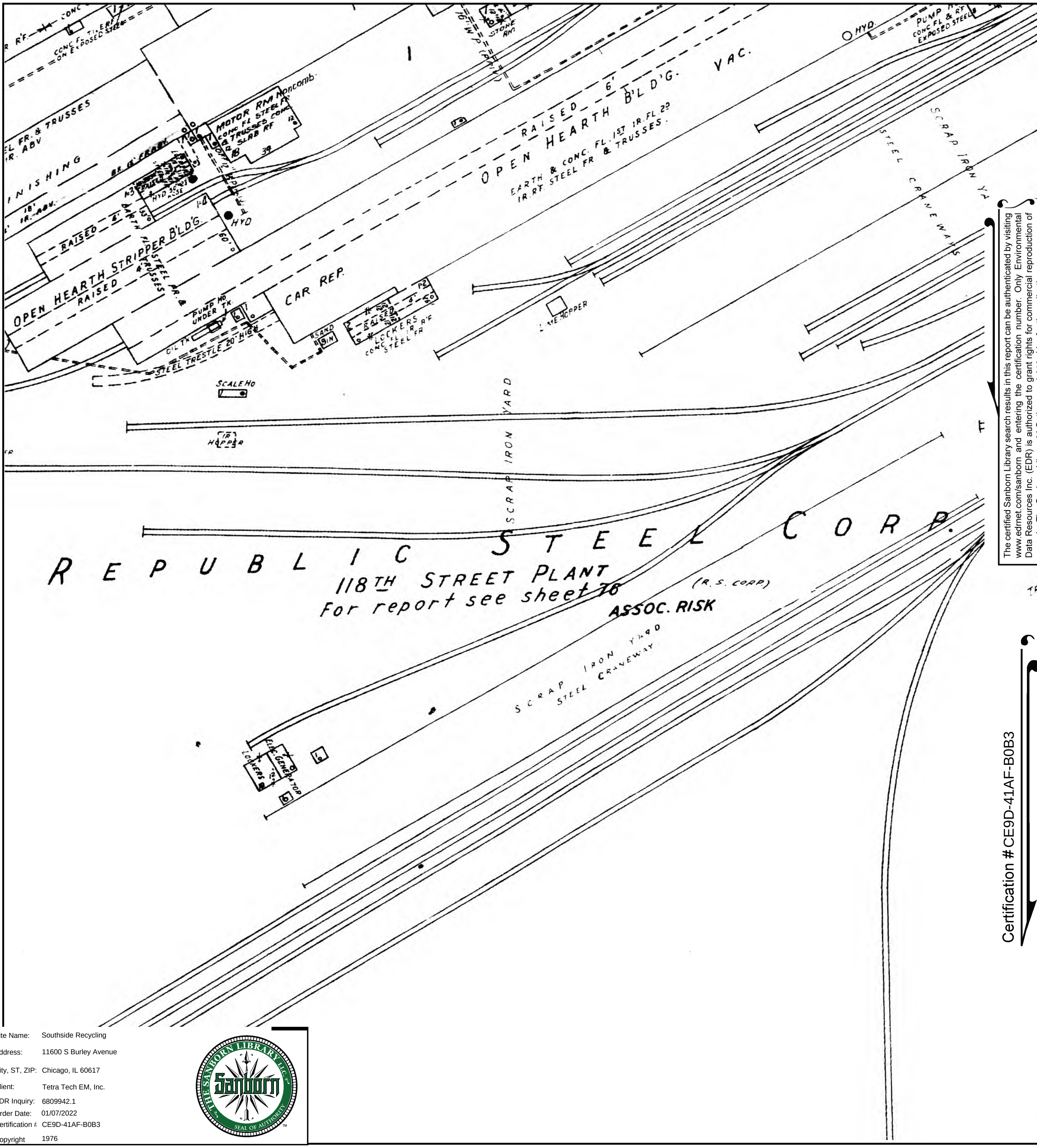

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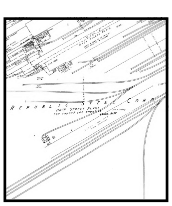

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Volume 48, Sheet 77

0 Feet 150 300 600

N

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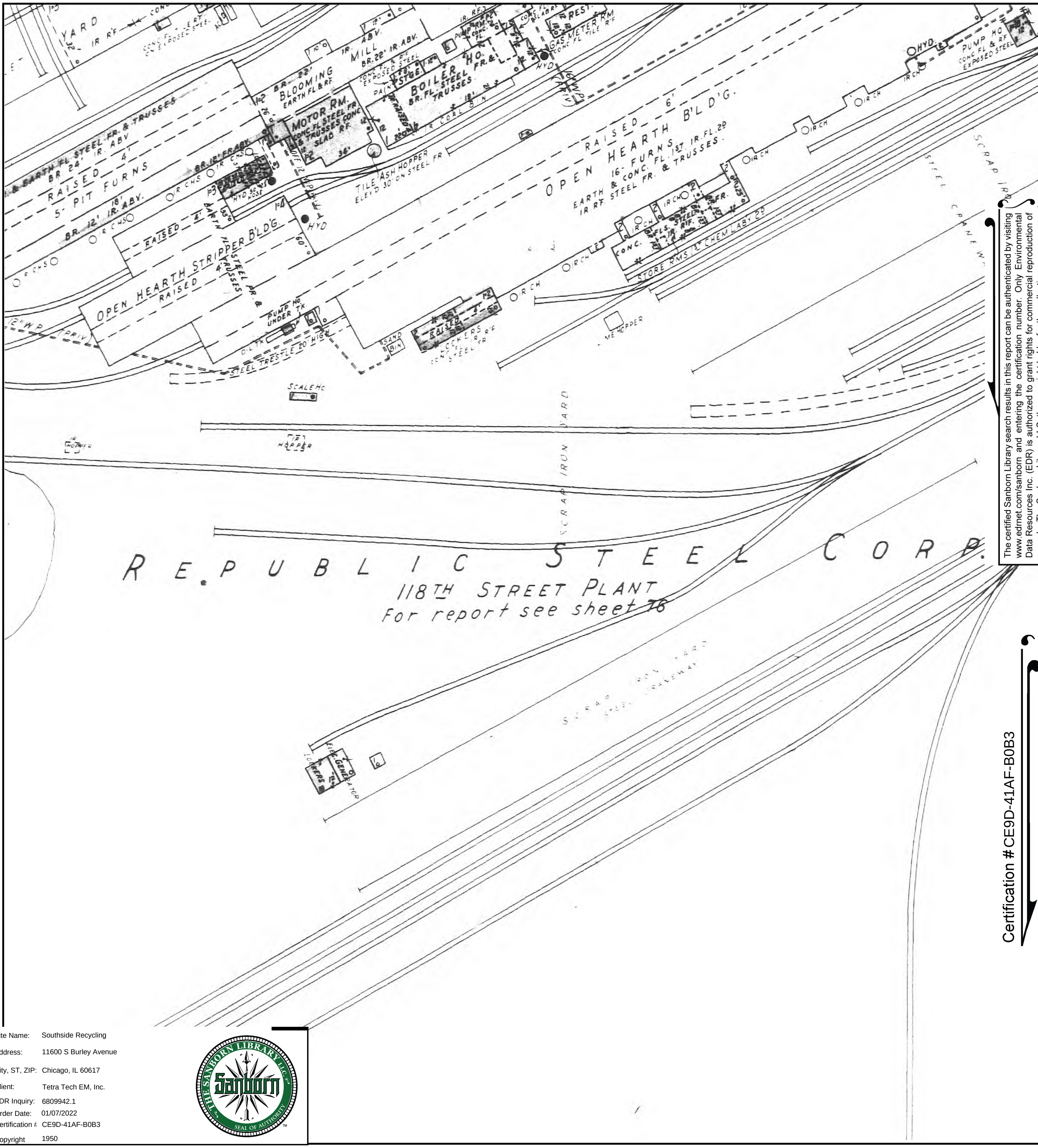
1950



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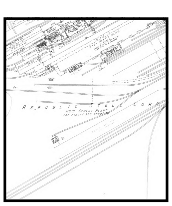

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Volume 48, Sheet 77

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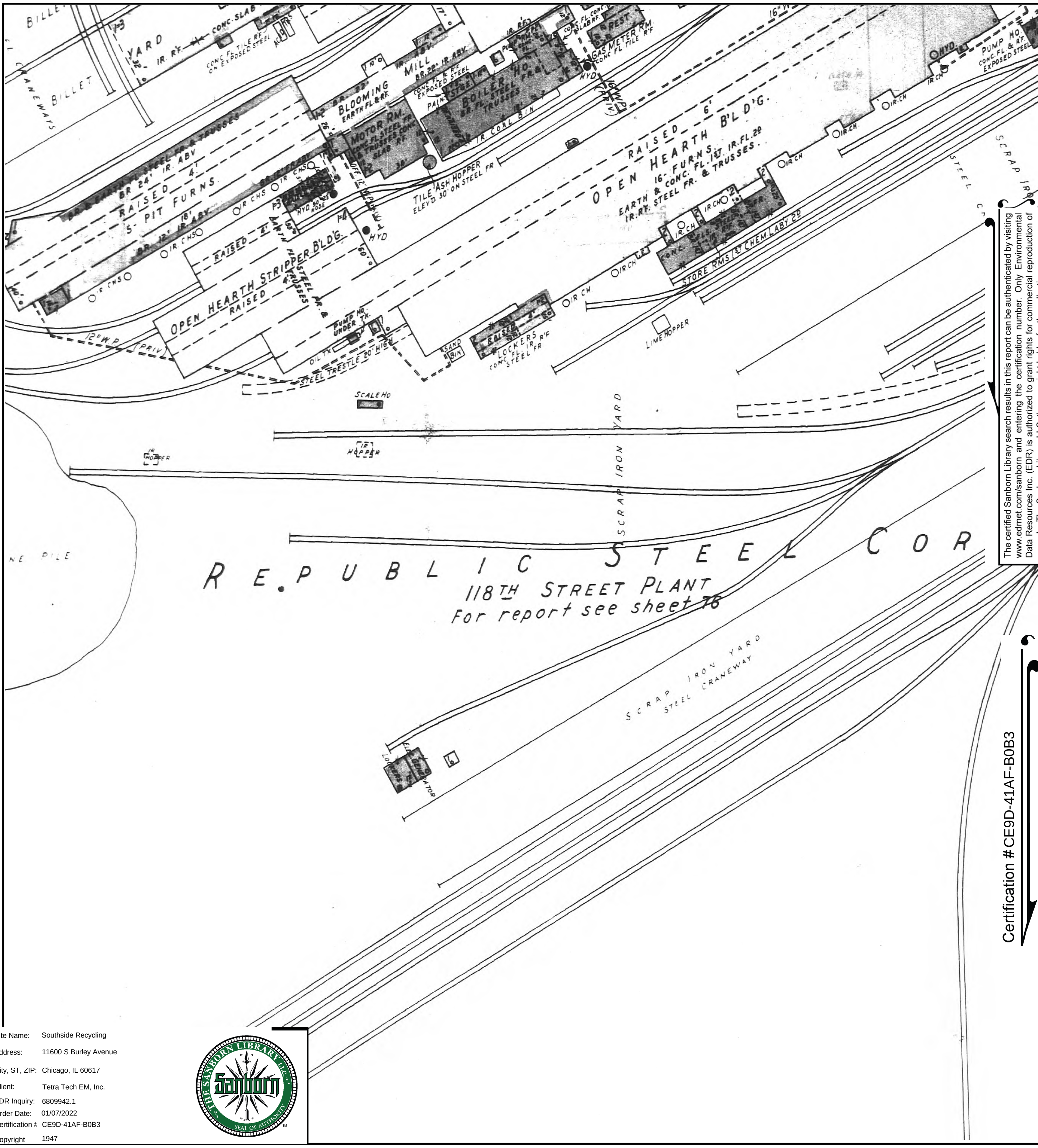
1947



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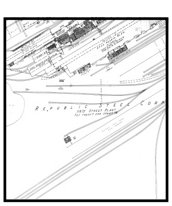

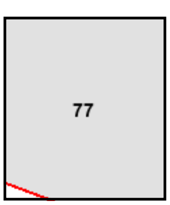

Volume 48, Sheet 77

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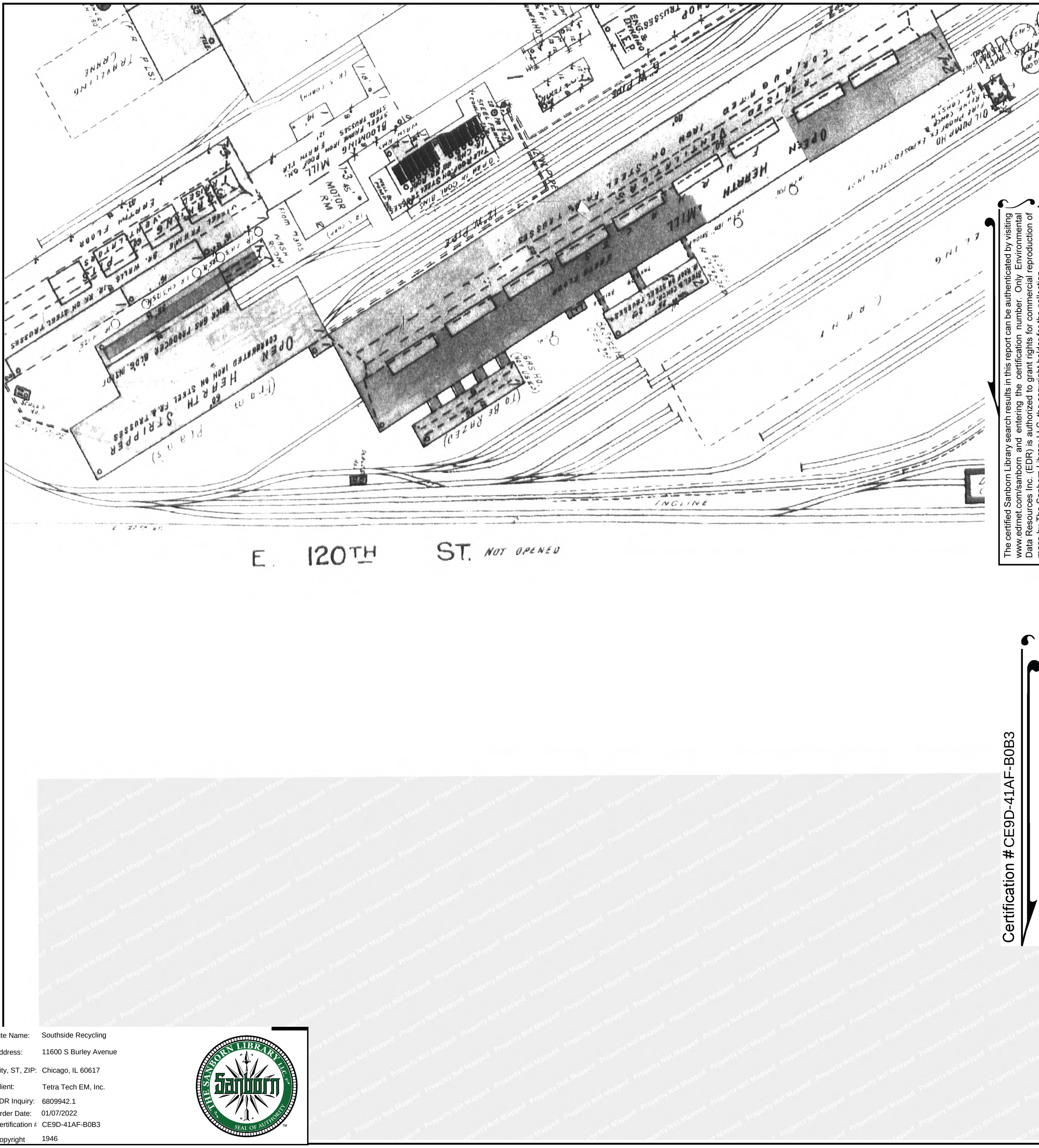
1946



Certification # CE9D-41AF-B0B3

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Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
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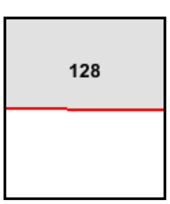

Volume F, Sheet 128

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Southside Recycling
11600 S Burley Avenue
Chicago, IL 60617

Inquiry Number: 6809942.1
January 07, 2022

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Shelton, CT 06484
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01/07/22

Site Name:	**Client Name:**
Southside Recycling	Tetra Tech EM, Inc.
11600 S Burley Avenue	1 South Wacker Drive, 37th Floor
Chicago, IL 60617	Chicago, IL 60606
EDR Inquiry # 6809942.1	Contact: Stacey Durley

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PO # NA

Project Southside Recycling CDPH

Maps Provided:

2004
2002
1992
1989
1987
1976
1950
1947
1946

Sanborn® Library search results

Certification #: CE9D-41AF-B0B3

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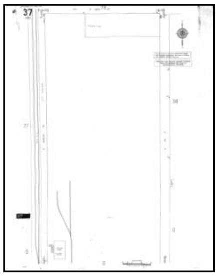
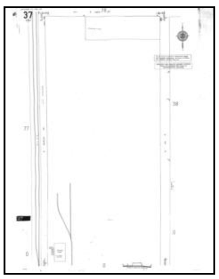


Volume 48, Sheet 37
2004

Volume 48, Sheet 77
2004

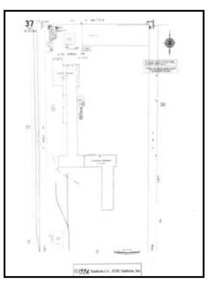
2002 Source Sheets



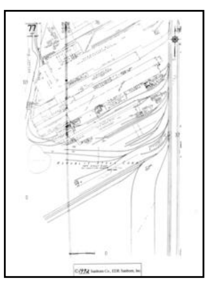
Volume 48, Sheet 37
2002

Volume 48, Sheet 77
2002

1992 Source Sheets

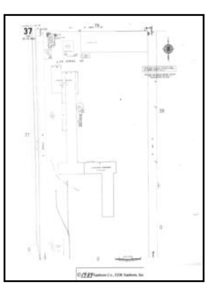


Volume 48, Sheet 37
1992

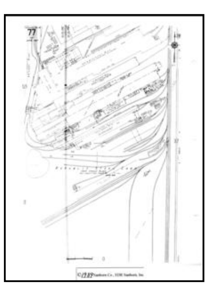


Volume 48, Sheet 77
1992

1989 Source Sheets



Volume 48, Sheet 37
1989



Volume 48, Sheet 77
1989

Sanborn Sheet Key

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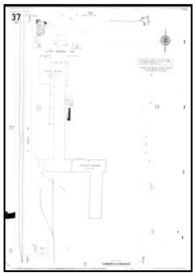
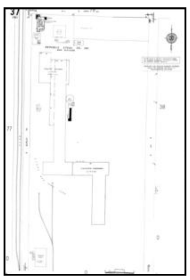
1987 Source Sheets



Volume 48, Sheet 37
1987

Volume 48, Sheet 77
1987

1976 Source Sheets



Volume 48, Sheet 37
1976

Volume 48, Sheet 77
1976

1950 Source Sheets

Volume 48, Sheet 77
1950

1947 Source Sheets

Volume 48, Sheet 77
1947

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1946 Source Sheets

Volume F, Sheet 128
1946

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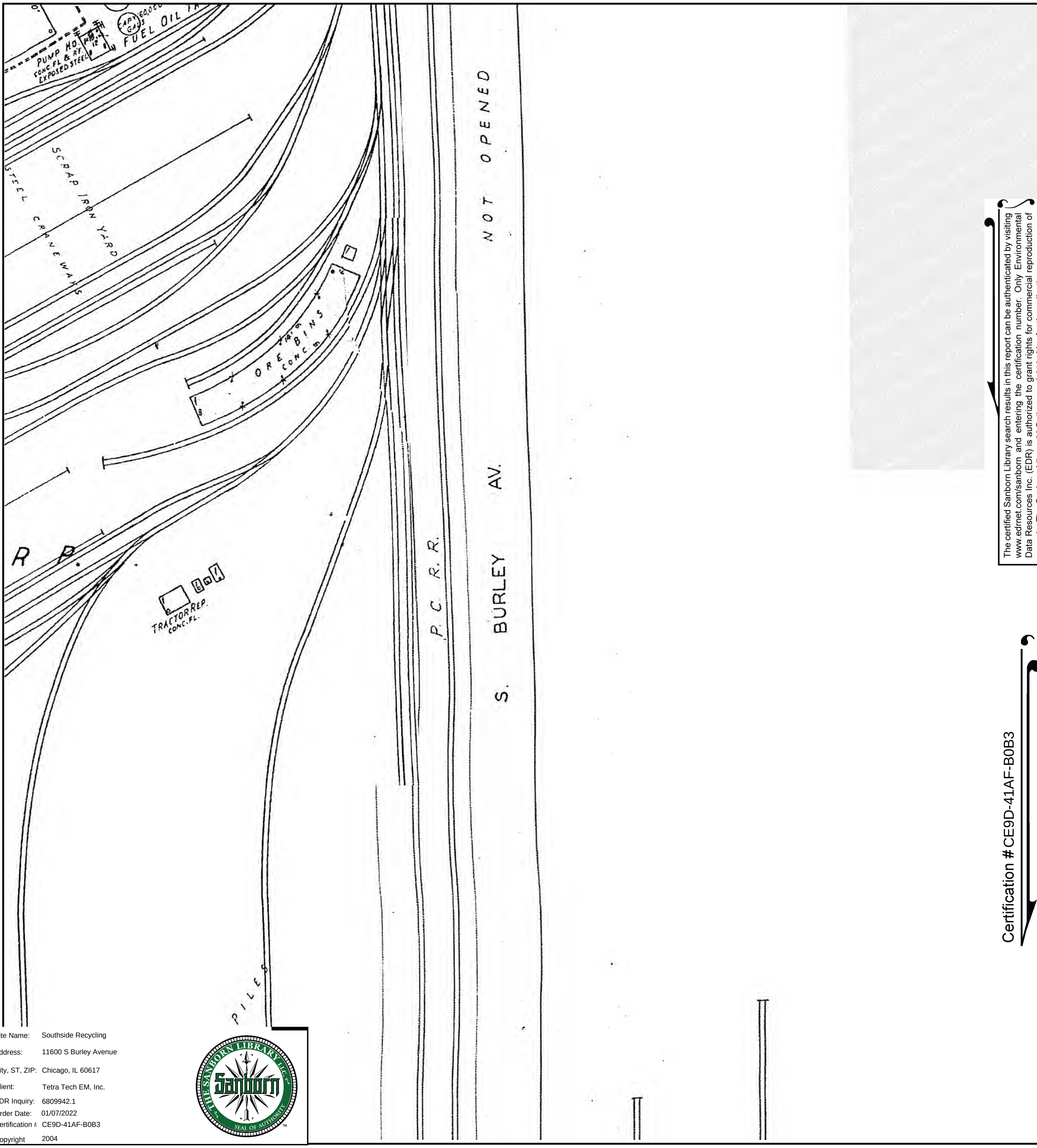
2004



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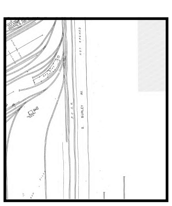

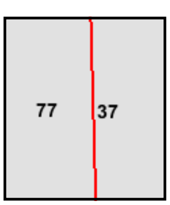

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Volume 48, Sheet 37

N

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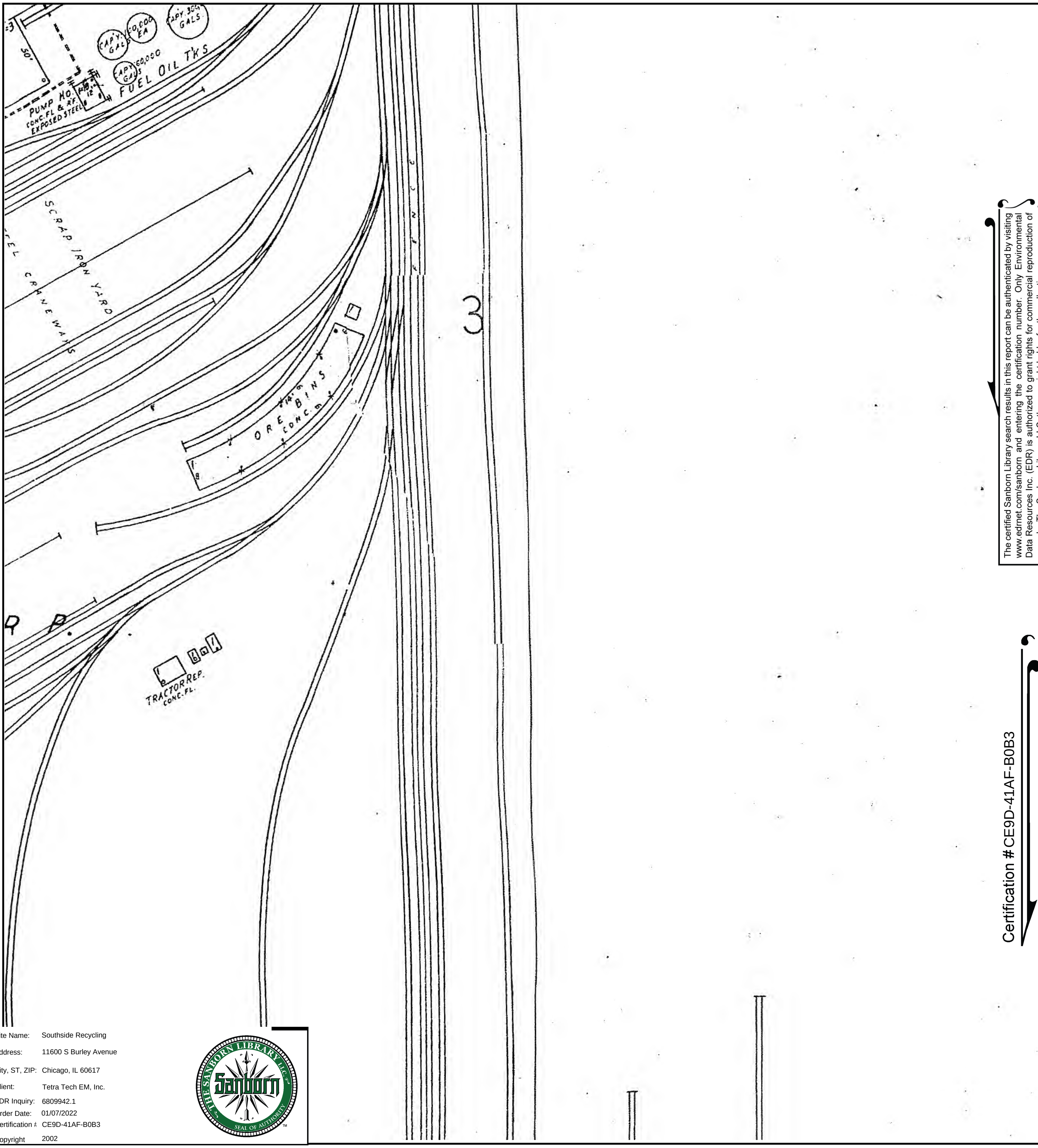
2002



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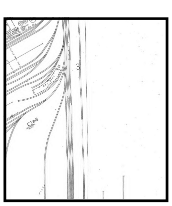

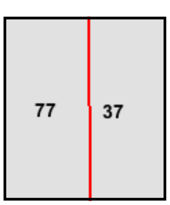

Volume 48, Sheet 77
Volume 48, Sheet 37

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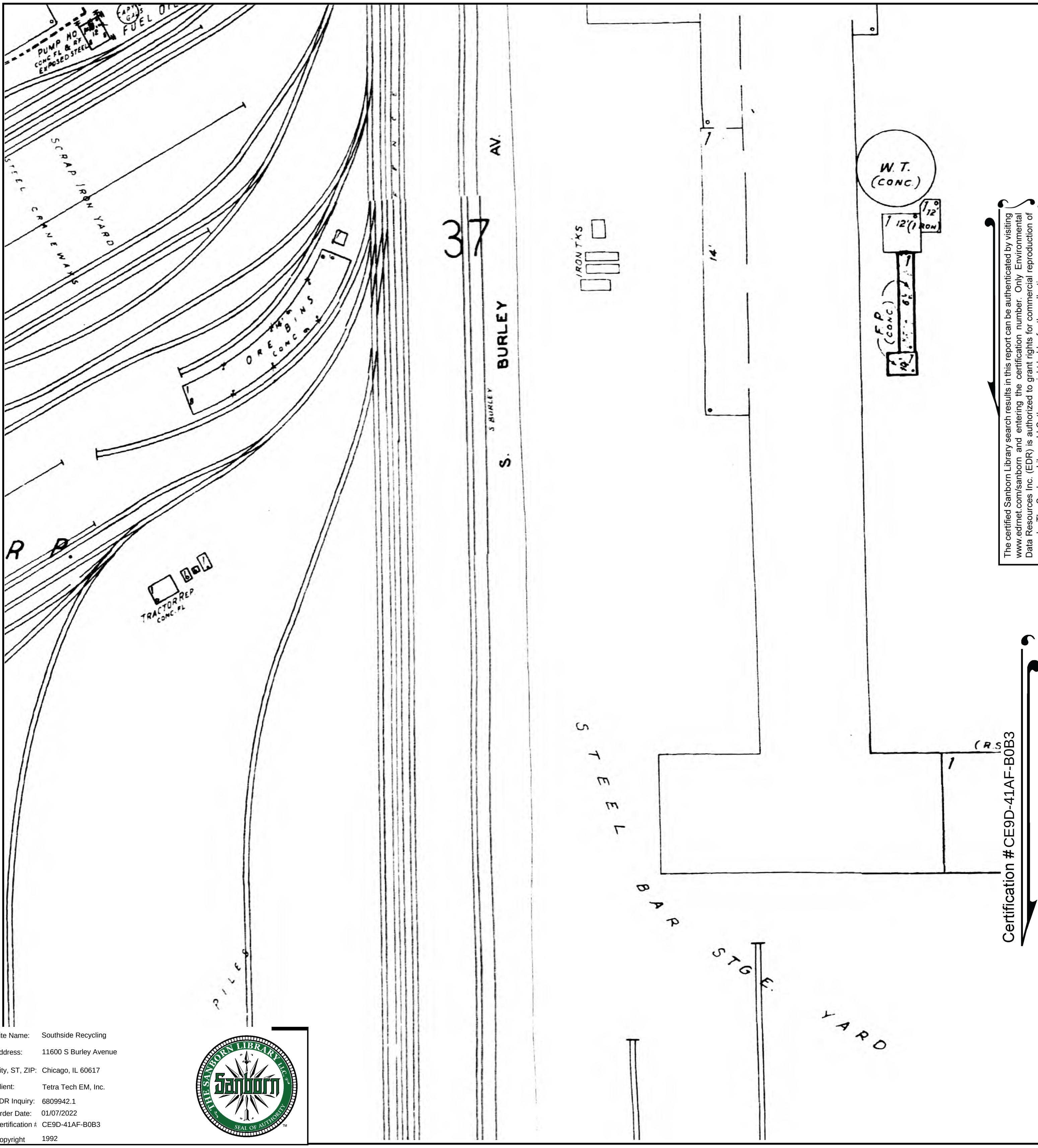
1992



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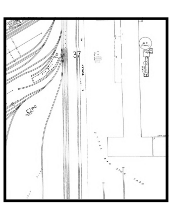

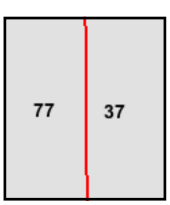

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Volume 48, Sheet 37

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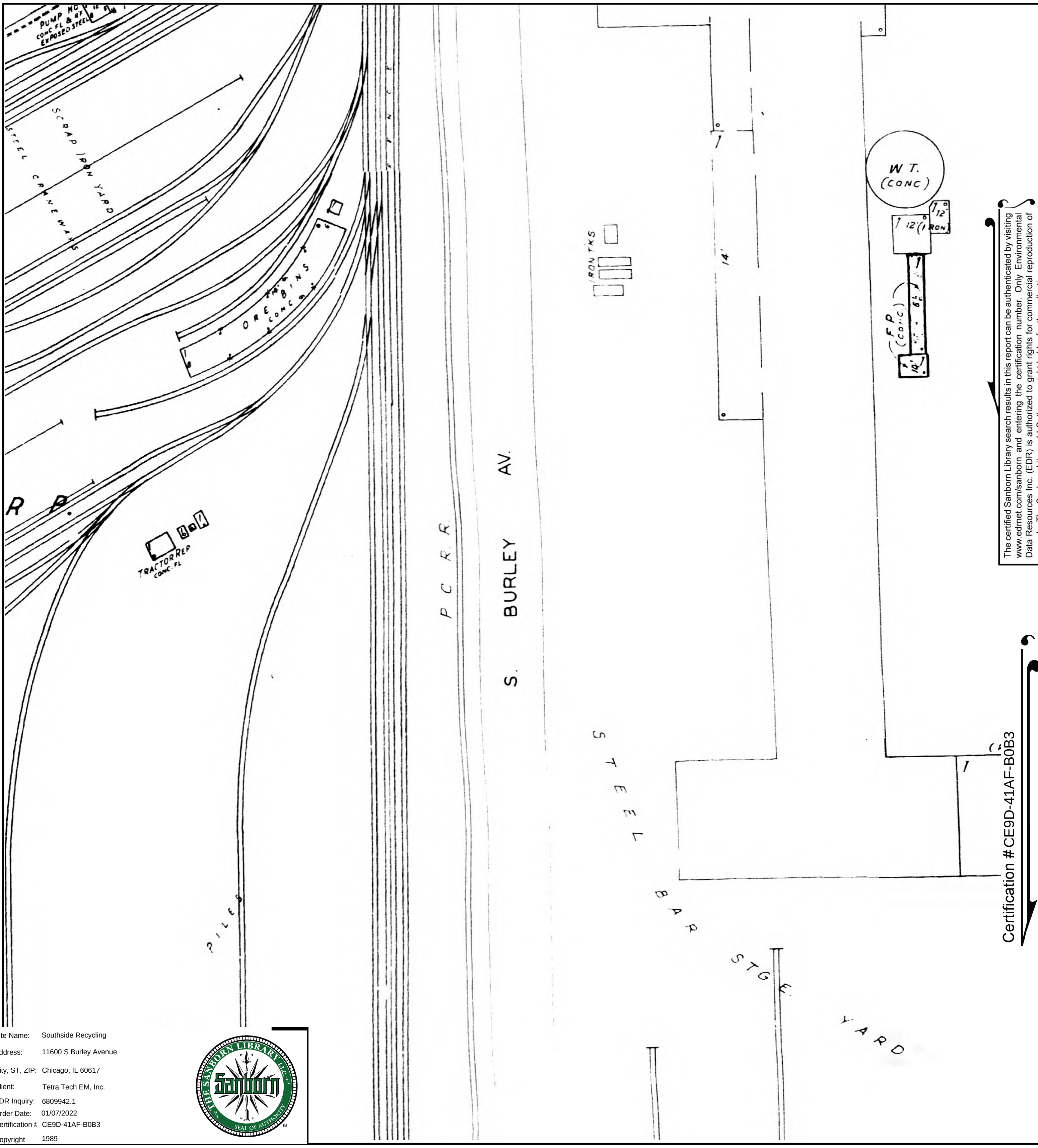
1989



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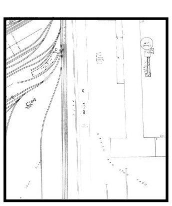

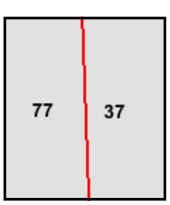

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Volume 48, Sheet 37

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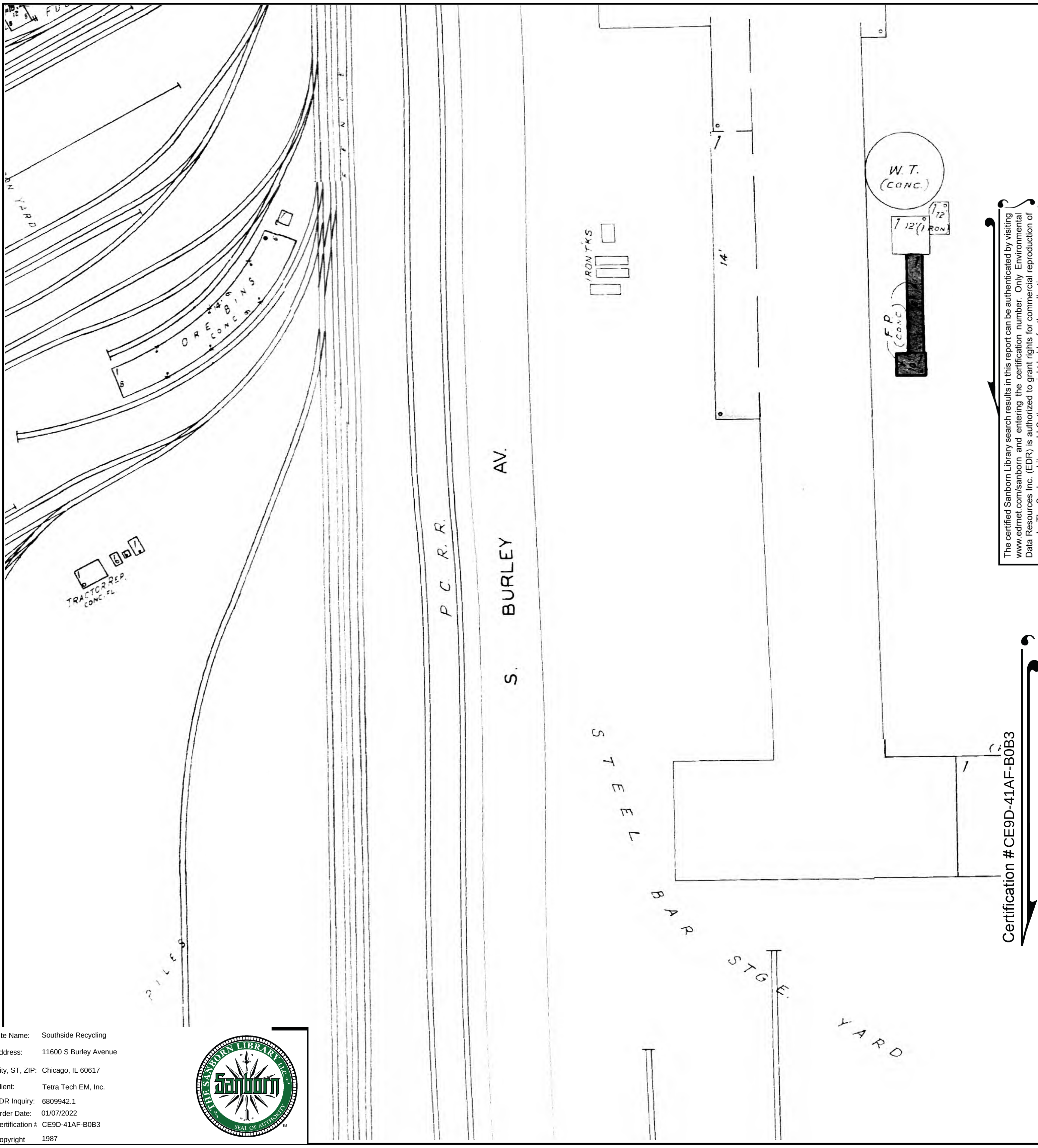
1987



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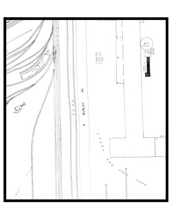

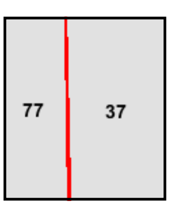

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Volume 48, Sheet 37

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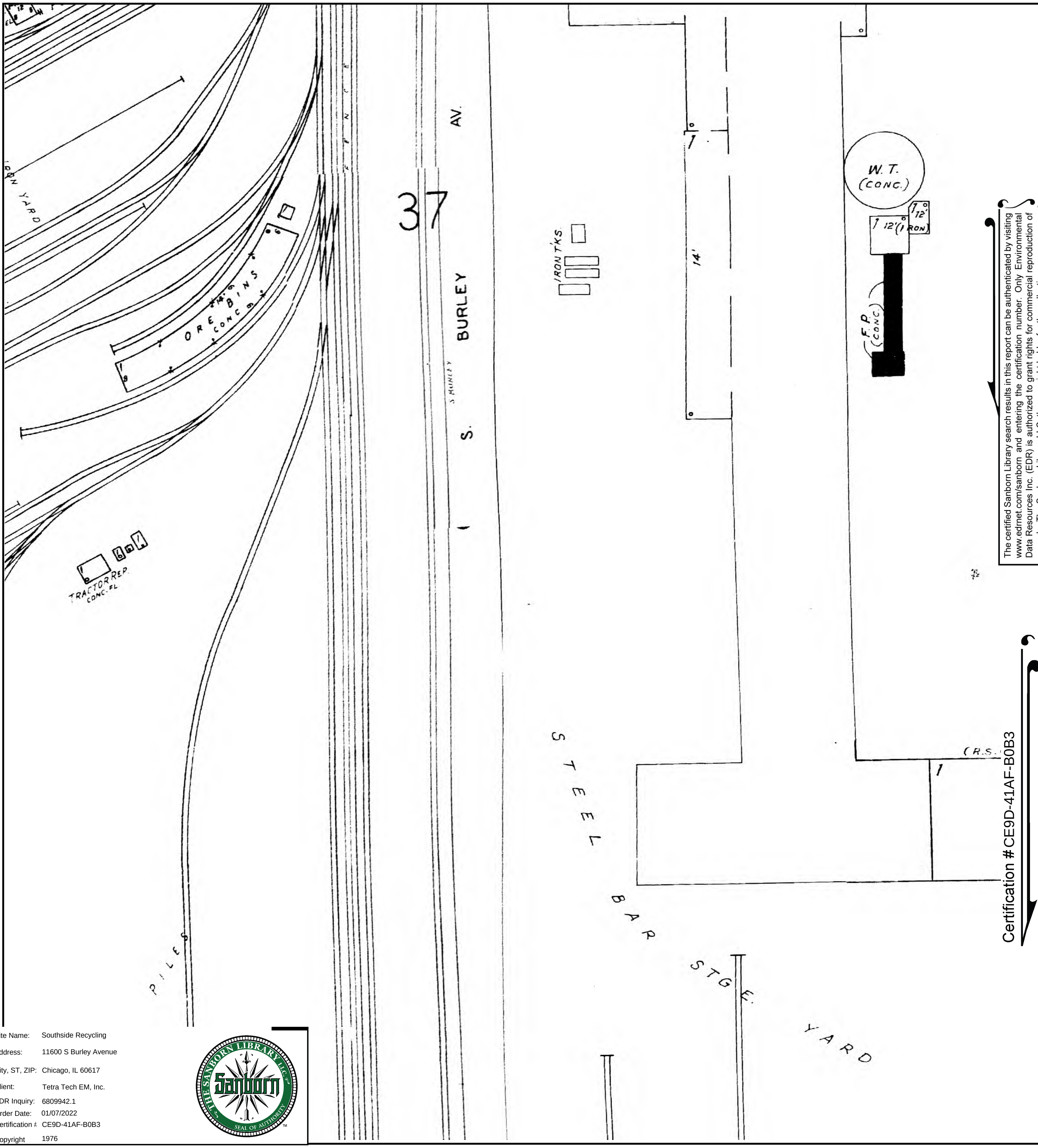
1976



Certification # CE9D-41AF-B0B3

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright 1976

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Outlined areas indicate map sheets within the collection.

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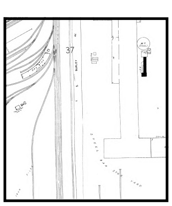

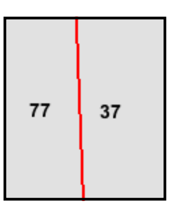

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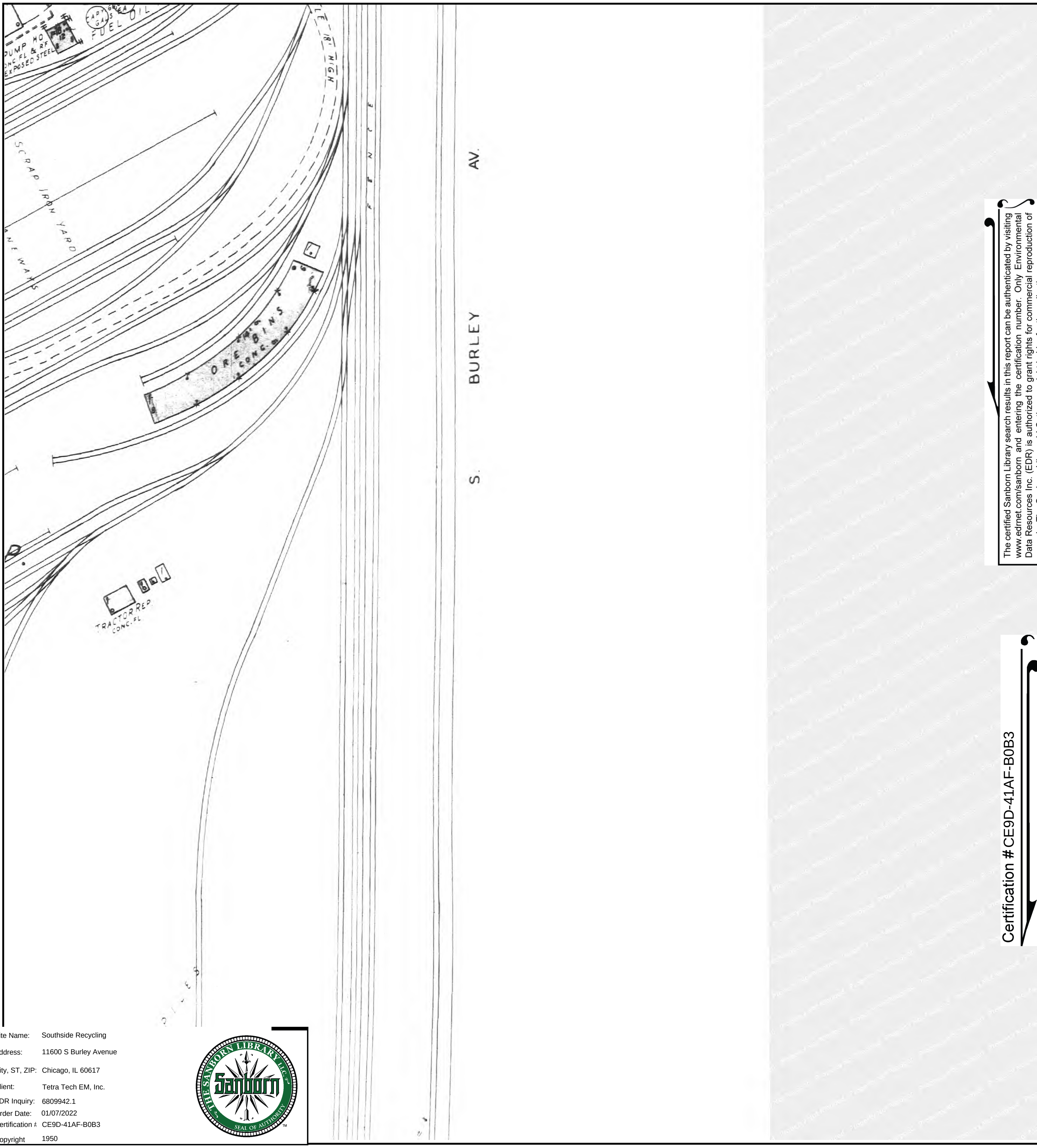
Volume 48, Sheet 37

N



Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #:	CE9D-41AF-B0B3
Copyright	1950

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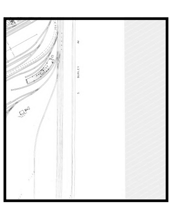

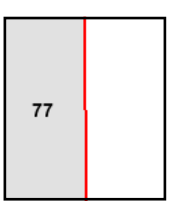

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0 Feet 150 300 600

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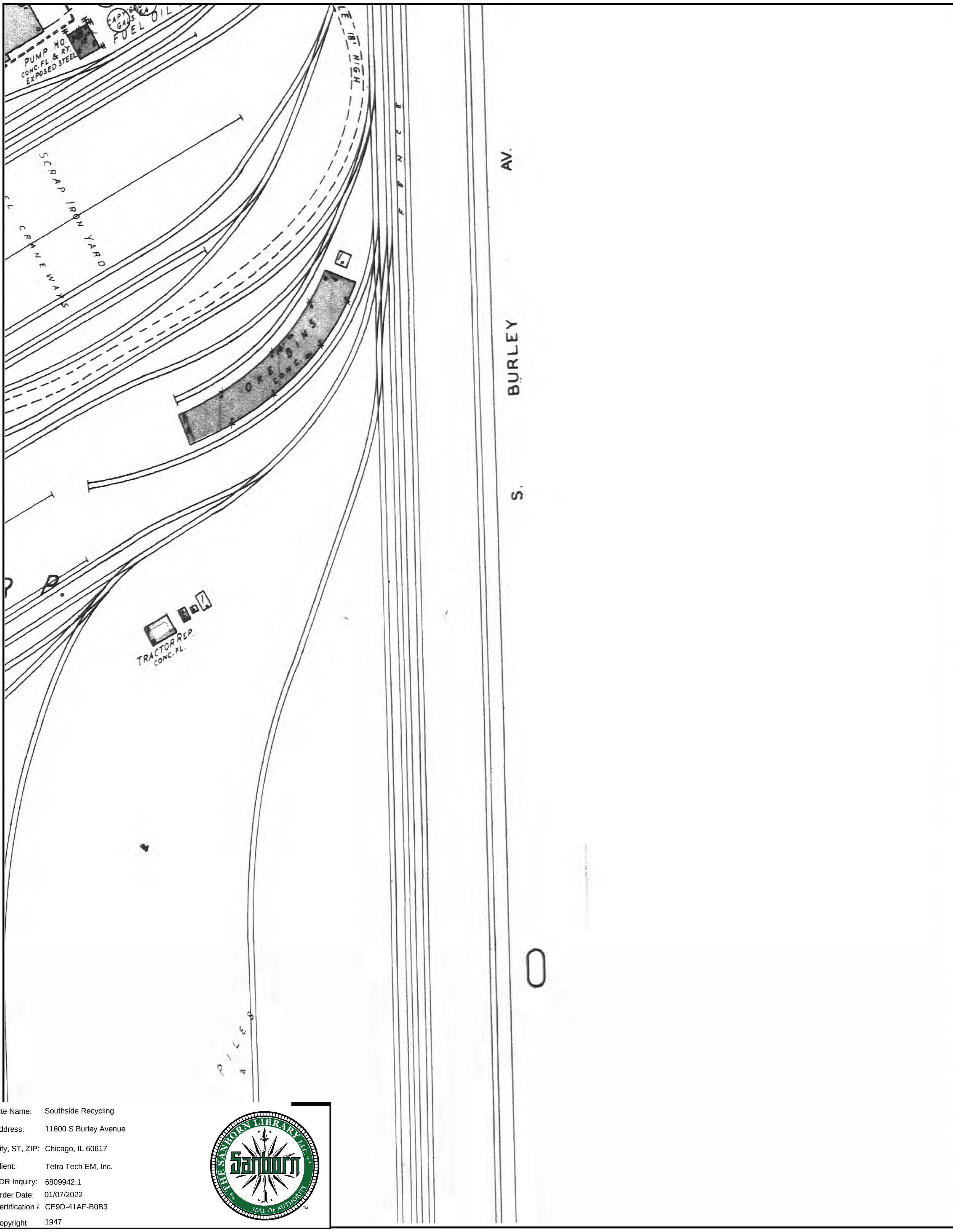

Certification # CE9D-41AF-B0B3

Site Name:	Southside Recycling
Address:	11600 S Burley Avenue
City, ST, ZIP:	Chicago, IL 60617
Client:	Tetra Tech EM, Inc.
EDR Inquiry:	6809942.1
Order Date:	01/07/2022
Certification #	CE9D-41AF-B0B3
Copyright	1947

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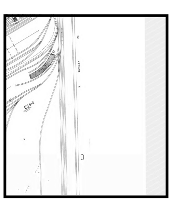

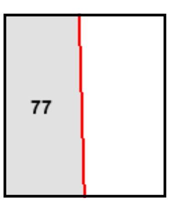

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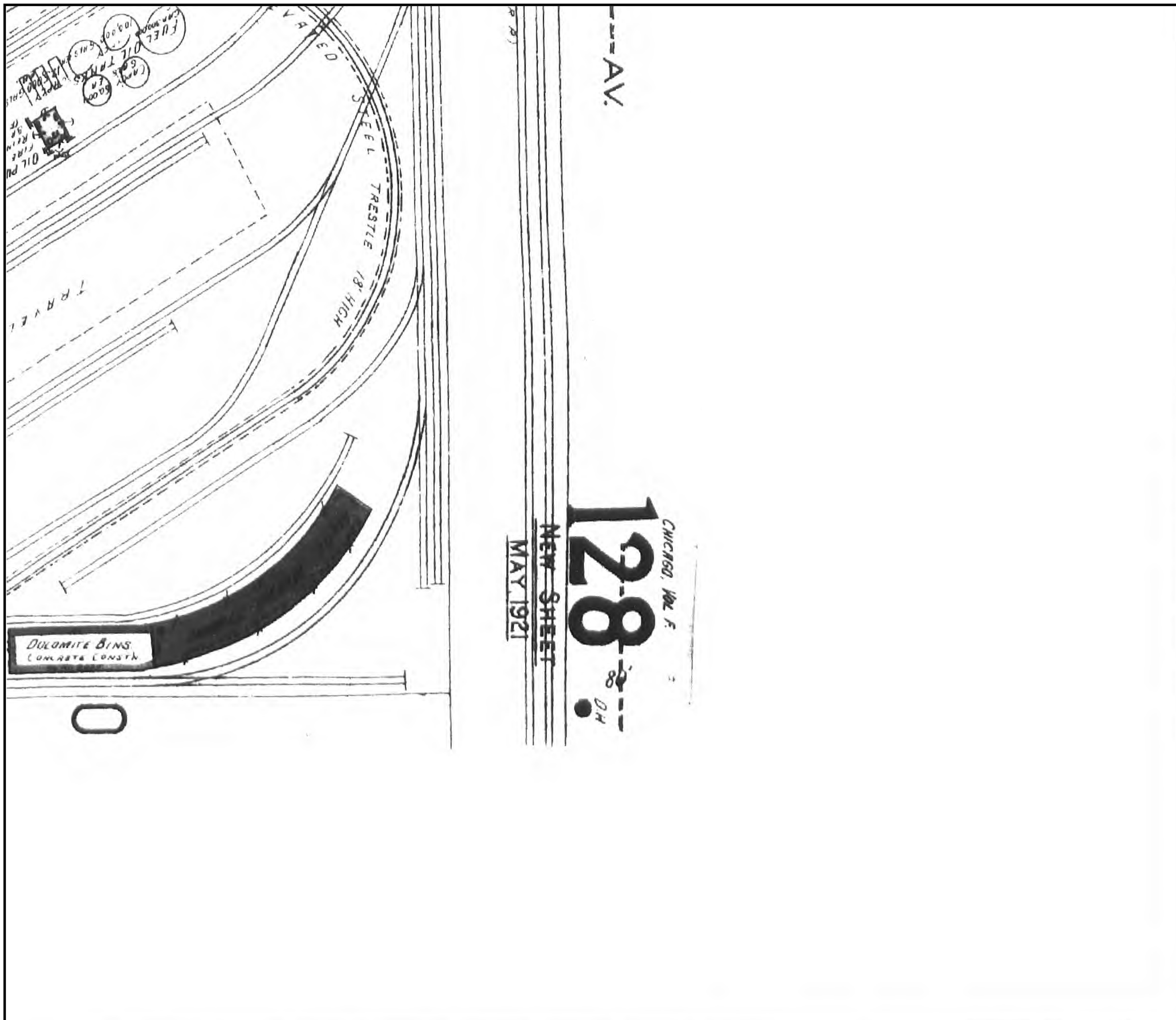

Site Name: Southside Recycling
Address: 11600 S Burley Avenue
City, ST, ZIP: Chicago, IL 60617
Client: Tetra Tech EM, Inc.
EDR Inquiry: 6809942.1
Order Date: 01/07/2022
Certification #: CE9D-41AF-B0B3
Copyright: 1946

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